

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #            | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      |       |      |      | Owner                                 | ST |
|--|------------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|------|------|---------------------------------------|----|
|  |                  |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI  | GJPI |                                       |    |
| 1 PR MM MAXIMUS 5557                   | 116550239        | 8K  | F   | 5557             | 4   | 63  | 1,550 | 0.20  | 110 | 0.07  | 68   | 801  | 700  | 617              | 2.82 | 3.4 | 0.2  | 2   | 83 | 0.4  | 1.61  | -0.4 | 275  | MISTY MEADOW DAIRY                    | OR |
| 2 PR FARIA BROTHERS ACTION DEAN SMITH  | 840003001860402  | 3K  |     | 5309             | 5   | 62  | 2,016 | -0.13 | 67  | -0.09 | 55   | 617  | 622  | 631              | 2.81 | 4.0 | 1.6  | 0   | 91 | 1.3  | 5.97  | 0.6  | 265  | FARIA BROS DAIRIES                    | TX |
| 3 PR FARIA BROTHERS PLUS 93056         | 840003008537424  | 6K  | F   | 93056            | 1   | 70  | 2,049 | -0.10 | 74  | -0.05 | 62   | 584  | 568  | 564              | 2.89 | 2.5 | 0.4  | 1   | 85 | 1.9  | 4.90  | 2.1  | 258  | FARIA BROS DAIRIES                    | TX |
| 4 PR FARIA BROTHERS VALENTINO 92292    | 840003008536660  | 6K  | C   | 92292            | 1   | 60  | 1,793 | -0.05 | 74  | -0.01 | 61   | 614  | 568  | 534              | 2.84 | 2.7 | -1.1 | 1   | 85 | 2.7  | 6.31  | 8.7  | 256  | FARIA BROS DAIRIES                    | TX |
| 5 PR FARIA BROTHERS TBONE DRAPER       | 840003001576537  | 6K  | F   | 23285            | 3   | 58  | 2,317 | -0.13 | 80  | -0.04 | 75   | 523  | 494  | 488              | 3.05 | 0.7 | -0.2 | 0   | 91 | 1.3  | 2.59  | 0.5  | 250  | FARIA DAIRY                           | AZ |
| 6 PR FARIA BROTHERS RENEGADE 100449    | 840003008321556  | 6K  | F   | 100449           | 1   | 53  | 1,968 | -0.02 | 88  | -0.04 | 61   | 601  | 583  | 579              | 2.96 | 3.0 | 0.6  | 1   | 85 | 1.3  | 2.36  | 0.3  | 247  | FARIA DAIRY                           | AZ |
| 7 JCJ MAGNUM 22831                     | 840003007770981  | 80K | F   | 22831            | 1   | 71  | 1,193 | 0.12  | 78  | 0.02  | 45   | 689  | 645  | 613              | 2.95 | 4.9 | 1.8  | 1   | 81 | 1.8  | 3.42  | 7.3  | 241  | INGURAN LLC DBA SEXING TECHNOLOGIES   | TX |
| 8 DUTCH HOLLOW PLUS CHARMAINE-ET       | 067184472        | 3K  |     | 4472             | 1   | 70  | 1,832 | -0.08 | 68  | -0.01 | 62   | 582  | 542  | 515              | 2.87 | 2.9 | -0.1 | 0   | 79 | 1.6  | 3.24  | 7.7  | 240  | CHITTENDEN, PAUL C                    | NY |
| 9 JER-Z-BOYZ BOLD 36370                | 117647754        | 6K  | F   | 36370            | 1   | 69  | 1,650 | 0.03  | 82  | -0.02 | 54   | 641  | 609  | 589              | 2.89 | 4.0 | -0.3 | 0   | 80 | 1.9  | 4.04  | 6.2  | 240  | JER-Z-BOYZ                            | CA |
| 10 FOREST GLEN IMPULS STACIE           | 067323446        | 3K  |     | 3446             | 2   | 69  | 1,056 | 0.16  | 78  | 0.08  | 52   | 687  | 598  | 529              | 2.94 | 3.8 | 1.1  | 1   | 85 | 1.2  | 3.43  | 6.4  | 240  | BANSEN, DAN K                         | OR |
| 11 FARIA BROTHERS VALENTINO CARRIE     | 840003008536871  | 3K  |     | 92503            | 1   | 68  | 1,448 | 0.04  | 73  | 0.03  | 57   | 587  | 524  | 478              | 2.92 | 2.8 | -0.6 | 1   | 85 | 2.1  | 4.89  | 6.3  | 234  | FARIA BROS DAIRIES                    | TX |
| 12 PR FARIA BROTHERS PLUS FIGO         | 840003008536866  | 6K  | F   | 92498            | 1   | 62  | 2,421 | -0.15 | 82  | -0.12 | 64   | 490  | 511  | 540              | 2.91 | 1.0 | -0.2 | 1   | 87 | 1.5  | 2.61  | 3.1  | 233  | FARIA BROS DAIRIES                    | TX |
| 13 PR FARIA BROTHERS TBONE HANSBROUGH  | 840003001576516  | 3K  |     | 18571            | 3   | 63  | 1,749 | -0.01 | 77  | -0.04 | 56   | 539  | 518  | 508              | 2.95 | 2.5 | 0.3  | 3   | 89 | 1.5  | 4.40  | -1.2 | 233  | FARIA BROS DAIRIES                    | TX |
| 14 PR FARIA BROTHERS MATINEE AUERBACH  | 840003001577180  | 3K  |     | 19235            | 3   | 61  | 2,196 | 0.02  | 106 | -0.11 | 58   | 576  | 589  | 605              | 2.81 | 1.9 | 0.4  | 0   | 73 | 0.1  | 0.67  | -4.1 | 232  | FARIA DAIRY                           | AZ |
| 15 AHLEM IMAGE SOUVENIR 32814          | 066622247        | 8K  | F   | 32814            | 2   | 72  | 1,251 | 0.01  | 61  | -0.01 | 42   | 614  | 574  | 537              | 2.72 | 4.2 | 0.2  | 3   | 90 | 2.0  | 6.43  | 7.9  | 230  | AHLEM, WILLIAM JR                     | CA |
| 16 D&E LEGAL KIRA 22022                | 067422022        | 3K  |     | 22022            | 1   | 67  | 1,599 | -0.02 | 68  | -0.02 | 55   | 655  | 615  | 585              | 2.86 | 5.2 | 0.2  | 1   | 86 | 1.1  | 0.74  | 6.3  | 229  | D & E JERSEYS                         | TX |
| 17 PR FARIA BROTHERS VALENTINO 93537   | 840003008537905  | 6K  | F   | 93537            | 1   | 70  | 2,205 | -0.09 | 82  | -0.06 | 65   | 478  | 476  | 490              | 3.04 | 1.8 | -1.7 | 0   |    | 2.1  | 4.15  | 5.7  | 228  | FARIA BROS DAIRIES                    | TX |
| 18 GR FARIA BROTHERS RENEGADE MARSHALL | 8400030071171670 | 6K  | F   | 69552            | 1   | 63  | 1,820 | 0.04  | 93  | -0.06 | 56   | 615  | 603  | 606              | 3.02 | 3.6 | 0.9  | 0   | 79 | 0.6  | -0.19 | 2.1  | 228  | FARIA DAIRY                           | AZ |
| 19 FARIA BROTHERS VALENTINO NEYMAR     | 840003008536837  | 6K  | C   | 92469            | 1   | 70  | 1,711 | -0.07 | 67  | -0.03 | 56   | 570  | 542  | 527              | 2.93 | 4.2 | -0.7 | 1   | 86 | 1.5  | 3.57  | 6.4  | 226  | FARIA BROS DAIRIES                    | TX |
| 20 GR FARIA BROTHERS TARGET RONALDO    | 840003007109191  | 6K  | F   | 80982            | 2   | 69  | 1,246 | 0.15  | 85  | 0.02  | 48   | 625  | 571  | 528              | 2.87 | 3.3 | 0.0  | 2   | 88 | 1.2  | 3.77  | 5.0  | 226  | FARIA BROS DAIRIES                    | TX |
| 21 BW LEGAL SUZANNE 1 ET814-ET         | 117512508        | 50K | F   | 978              | 1   | 72  | 1,469 | -0.05 | 60  | -0.04 | 46   | 578  | 565  | 562              | 2.97 | 5.5 | 1.0  | 1   | 86 | 1.4  | 4.67  | 5.8  | 226  | BRENTWOOD FARMS                       | CA |
| 22 ALL LYNNS IMPULS VIRGINIA-ET        | 116159979        | 50K | F   | 1164             | 2   | 72  | 1,496 | 0.05  | 77  | 0.03  | 58   | 610  | 548  | 505              | 2.97 | 3.3 | -0.4 | 4   | 86 | 1.2  | 2.12  | 5.5  | 225  | TATE, BROCK                           | CA |
| 23 GR MM GANNON-PR 9465                | 117235302        | 8K  | C   | 9465             | 2   | 72  | 1,426 | 0.09  | 81  | 0.02  | 55   | 578  | 520  | 477              | 2.92 | 2.5 | 0.0  | 1   | 83 | 1.3  | 3.12  | 6.0  | 224  | MISTY MEADOW DAIRY                    | OR |
| 24 GR GOLDUST DALE LEANNA-ET           | 067221691        | 50K | C   | 1691             | 3   | 75  | 1,120 | 0.11  | 71  | 0.07  | 53   | 632  | 539  | 460              | 2.81 | 3.3 | 0.5  | 2   | 87 | 1.1  | 2.69  | 5.9  | 223  | LOURENZO, KEVIN B                     | ID |
| 25 HIGHLAND IMPULS J REFUGEE           | 067182480        | 3K  |     | 2480             | 3   | 72  | 980   | 0.10  | 65  | 0.08  | 49   | 691  | 601  | 528              | 2.91 | 4.9 | 1.4  | 2   | 80 | 0.7  | 1.01  | 6.4  | 223  | HIGHLAND FARMS                        | ME |
| 26 PR FARIA BROTHERS RENEGADE 89574    | 840003004635213  | 80K |     | 89574            | 1   | 53  | 1,328 | 0.13  | 86  | 0.03  | 54   | 648  | 574  | 511              | 2.77 | 3.3 | 0.4  | 0   |    | 0.7  | 1.06  | 0.0  | 222  | FARIA BROS DAIRIES                    | TX |
| 27 PR FARIA BROTHERS RENEGADE 68231    | 840003007170349  | 6K  | F   | 68231            | 2   | 68  | 1,691 | -0.04 | 71  | -0.06 | 50   | 528  | 527  | 536              | 2.99 | 3.3 | 0.2  | 0   | 82 | 1.6  | 3.45  | 5.6  | 221  | FARIA BROS DAIRIES                    | TX |
| 28 GR FARIA BROTHERS PLUS DE ROSSI     | 840003008935992  | 6K  | F   | 95504            | 1   | 64  | 1,419 | 0.02  | 69  | -0.03 | 43   | 576  | 562  | 556              | 2.90 | 4.2 | 0.4  | 1   | 83 | 1.7  | 5.05  | 3.8  | 221  | FARIA BROS DAIRIES                    | TX |
| 29 FARIA BROTHERS PLUS RONALDINHO      | 840003009425561  | 6K  | F   | 103850           | 0   | 63  | 1,415 | 0.10  | 84  | 0.01  | 51   | 602  | 559  | 530              | 2.95 | 3.0 | 0.5  | 0   |    | 1.1  | 1.64  | 5.8  | 219  | FARIA DAIRY                           | AZ |
| 30 NYMANS MAGNUM 14030                 | 117286689        | 80K | F   | 14030            | 2   | 73  | 893   | 0.22  | 82  | 0.06  | 43   | 596  | 531  | 487              | 3.09 | 3.0 | 0.4  | 1   | 81 | 2.0  | 5.17  | 7.8  | 218  | INGURAN LLC DBA SEXING TECHNOLOGIES   | TX |
| 31 PR FARIA BROTHERS RENEGADE 89597    | 840003004635236  | 6K  | F   | 89597            | 1   | 65  | 1,892 | 0.03  | 94  | -0.05 | 59   | 569  | 548  | 538              | 2.90 | 2.3 | -0.6 | 0   |    | 0.9  | 0.47  | 4.2  | 217  | FARIA BROS DAIRIES                    | TX |
| 32 FOREST GLEN CHERRY CHAMP JASMINE    | 067354056        | 3K  |     | 4056             | 1   | 70  | 1,338 | -0.02 | 58  | 0.00  | 50   | 535  | 492  | 465              | 3.02 | 3.3 | 0.1  | 0   | 85 | 2.0  | 4.55  | 9.0  | 217  | BANSEN, DAN K                         | OR |
| 33 JER BEL HEADLINE BAMBINA            | 117389636        | 3K  |     | 755              | 1   | 70  | 1,559 | -0.14 | 44  | -0.07 | 42   | 527  | 542  | 566              | 3.02 | 6.2 | 0.3  | 1   | 82 | 1.9  | 5.91  | 8.3  | 217  | KING HOWARD & FAMILY                  | OH |
| 34 FARIA BROTHERS BLADE BETTY          | 840003008321771  | 6K  | C   | 100664           | 1   | 67  | 1,300 | 0.15  | 89  | 0.07  | 59   | 556  | 473  | 418              | 3.09 | 1.7 | -0.2 | 1   | 84 | 0.9  | 2.24  | 3.6  | 216  | FARIA DAIRY                           | AZ |
| 35 WILL DO VALENTINO WANNABE           | 117454376        | 3K  |     | 50484            | 1   | 67  | 1,902 | -0.11 | 65  | -0.06 | 57   | 482  | 471  | 469              | 2.90 | 2.3 | -1.3 | 1   | 84 | 2.1  | 4.31  | 8.9  | 216  | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX |
| 36 ALL LYNNS PLUS VANILLA              | 117332009        | 3K  |     | 1398             | 1   | 67  | 1,295 | 0.13  | 83  | 0.02  | 49   | 583  | 533  | 496              | 2.93 | 2.9 | -0.4 | 1   | 81 | 1.5  | 3.28  | 6.4  | 216  | ALLEN, DAVID                          | WI |
| 37 FOREST GLEN LOUIES MARTHATHA        | 067354623        | 3K  |     | 4623             | 1   | 64  | 1,205 | 0.11  | 77  | 0.02  | 49   | 603  | 546  | 505              | 2.97 | 4.2 | 0.7  | 0   | 83 | 1.3  | 2.46  | 5.2  | 216  | FOREST GLEN JERSEYS                   | OR |
| 38 PETERSON ZUMA TWO                   | 117765698        | 8K  | F   | 870              | 0   | 58  | 465   | 0.21  | 62  | 0.07  | 30   | 698  | 616  | 540              | 2.76 | 5.6 | 1.6  | 0   | 80 | 1.0  | 4.82  | 4.2  | 216  | PETERSON ERIC & ROY                   | OR |
| 39 PR FARIA BROTHERS PERIMETER PUYOL   | 840003001577176  | 6K  | F   | 19231            | 4   | 61  | 2,129 | -0.22 | 55  | -0.06 | 65   | 461  | 447  | 447              | 2.93 | 1.4 | 1.3  | 0   | 85 | 0.2  | -0.24 | 0.8  | 215  | FARIA DAIRY                           | AZ |
| 40 FARIA BROTHERS HEADLINE JORDAN      | 840003008305056  | 3K  |     | 91946            | 1   | 66  | 2,104 | -0.25 | 48  | -0.12 | 53   | 463  | 490  | 522              | 2.90 | 3.9 | -0.1 | 1   | 84 | 1.3  | 3.67  | 3.6  | 215  | FARIA BROS DAIRIES                    | TX |
| 41 AHLEM LEGAL LU 35173                | 069042379        | 3K  |     | 35173            | 1   | 69  | 1,447 | -0.05 | 55  | -0.04 | 44   | 567  | 553  | 543              | 2.85 | 5.0 | 0.2  | 1   | 90 | 1.6  | 4.81  | 7.7  | 215  | AHLEM, WILLIAM JR                     | CA |
| 42 FOREST GLEN PLUS ANABELL            | 067354369        | 6K  | F   | 4369             | 1   | 68  | 1,362 | 0.12  | 85  | 0.05  | 57   | 575  | 509  | 465              | 3.06 | 2.1 | -0.2 | 0   | 75 | 1.0  | 1.65  | 5.5  | 214  | FOREST GLEN JERSEYS                   | OR |
| 43 JARS OF CLAY VALENTINO BRIDGET      | 067243298        | 50K | F   | 3298             | 1   | 73  | 1,705 | -0.07 | 67  | -0.06 | 51   | 512  | 499  | 492              | 2.86 | 2.5 | -0.5 | 1   | 88 | 2.3  | 4.84  | 8.1  | 214  | QUIST, JIM                            | CA |
| 44 MS ARTIST 3712 D985                 | 115137073        | 3K  |     | 4985             | 4   | 73  | 1,847 | -0.14 | 57  | -0.09 | 50   | 552  | 552  | 549              | 2.68 | 4.2 | 0.8  | 2   | 85 | 1.0  | 0.88  | 5.1  | 213  | MOUNTAIN SHADOW DAIRY                 | AZ |
| 45 NYMANS MAGNUM 13949                 | 117285978        | 80K | C   | 13949            | 2   | 73  | 1,229 | 0.13  | 83  | 0.02  | 48   | 596  | 548  | 517              | 3.02 | 3.0 | 1.3  | 1   | 78 | 0.5  | 1.56  | 7.0  | 213  | INGURAN LLC DBA SEXING TECHNOLOGIES   | TX |
| 46 HI-LAND HEADLINE FORM               | 067146413        | 3K  |     | 6413             | 2   | 72  | 1,521 | -0.12 | 49  | -0.04 | 47   | 552  | 537  | 532              | 2.94 | 5.2 | 0.5  | 1   | 88 | 1.3  | 2.87  | 7.9  | 213  | CHAMBERLAIN GREG & DAVID              | NY |
| 47 FOREST GLEN HEADLINE MONIQUE        | 067323823        | 3K  |     | 3823             | 1   | 70  | 1,509 | -0.14 | 42  | -0.03 | 47   | 540  | 518  | 499              | 2.80 | 4.8 | 0.8  | 1   | 78 | 1.4  | 3.74  | 7.9  | 213  | BANSEN, DAN K                         | OR |
| 48 PR FARIA BROTHERS SHAWNEE HEINSOHN  | 840003005642701  | 3K  |     | 63604            | 2   | 67  | 1,944 | 0.04  | 95  | -0.04 | 62   | 531  | 504  | 488              | 2.88 | 0.7 | -0.5 | 2   | 84 | 0.5  | -0.71 | 4.4  | 212  | FARIA DAIRY                           | AZ |
| 49 CAL-MART PLUS BRETT 5095-ET         | 067125095        | 3K  |     | 5095             | 1   | 70  | 1,117 | 0.15  | 81  | 0.09  | 56   | 538  | 449  | 387              | 3.11 | 1.1 | -0.3 | 0   | 80 | 1.7  | 3.46  | 7.3  | 212  | MARTIN DAIRY LLC                      | OR |
| 50 PR FARIA BROTHERS RENEGADE 90749    | 840003008303859  | 6K  |     | 90749            | 1   | 56  | 1,486 | 0.05  | 79  | 0.01  | 54   | 523  | 472  | 435              | 2.89 | 1.6 | -0.4 | 1   | 81 | 1.1  | 3.50  | 2.2  | 212  | FARIA BROS DAIRIES                    | TX |

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| Name                                    | Reg #           | ----- GPTA ----- |     |        |     |     |       |       |     |       |      | ----- TYPE ----- |      |      |      |     |      |     |    | Owner | ST    |      |     |                                       |      |
|---|-----------------|------------------|-----|--------|-----|-----|-------|-------|-----|-------|------|------------------|------|------|------|-----|------|-----|----|-------|-------|------|-----|---------------------------------------|------|
|   |                 | GT               | JH1 | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$             | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                                   | GJPI |
| 51 PR FARIA BROTHERS RENEGADE 100382    | 840003008321489 | 6K               | F   | 100382 | 1   | 64  | 1,496 | 0.04  | 77  | 0.00  | 53   | 557              | 515  | 488  | 2.97 | 3.5 | -0.2 | 1   | 82 | 1.3   | 2.01  | 3.2  | 212 | FARIA DAIRY                           | AZ   |
| 52 MFW RENEGADE BARON                   | 067351694       | 3K               |     | 1694   | 1   | 70  | 763   | 0.18  | 69  | 0.06  | 39   | 661              | 588  | 527  | 2.90 | 5.2 | 0.6  | 0   | 87 | 1.6   | 3.70  | 8.3  | 212 | MASON, ANDREW P                       | MD   |
| 53 GR FARIA BROTHERS DO RIGHT DORSEY    | 840003003859375 | 6K               | F   | 41808  | 5   | 65  | 2,088 | -0.26 | 45  | -0.08 | 62   | 432              | 420  | 416  | 2.84 | 1.6 | -0.3 | 0   | 90 | 0.2   | 1.76  | 0.1  | 211 | FARIA BROS DAIRIES                    | TX   |
| 54 WICKS PLUS 4300                      | 067304300       | 8K               | F   | 4300   | 0   | 66  | 1,403 | 0.02  | 70  | 0.01  | 52   | 549              | 500  | 464  | 2.91 | 2.5 | -0.5 | 0   | 80 | 1.4   | 3.24  | 7.5  | 211 | WICKSTROM BROS                        | CA   |
| 55 AHLEM LEGAL ROSANNA 36083            | 070047557       | 8K               | C   | 36083  | 1   | 70  | 1,182 | -0.06 | 43  | 0.01  | 44   | 523              | 493  | 481  | 3.13 | 4.7 | 0.6  | 1   | 79 | 2.3   | 6.02  | 7.6  | 211 | AHLEM, WILLIAM JR                     | CA   |
| 56 AHLEM LEGAL HAVS 35507               | 069042713       | 3K               |     | 35507  | 1   | 69  | 999   | -0.07 | 33  | 0.03  | 41   | 602              | 542  | 488  | 2.80 | 5.6 | 0.8  | 1   | 83 | 1.8   | 5.13  | 8.2  | 211 | AHLEM, WILLIAM JR                     | CA   |
| 57 AHLEM LEGAL WINSOME 35777            | 069042983       | 8K               | C   | 35777  | 1   | 70  | 894   | 0.11  | 61  | 0.05  | 41   | 592              | 526  | 472  | 2.92 | 4.1 | -0.1 | 2   | 85 | 2.4   | 5.63  | 8.4  | 210 | AHLEM, WILLIAM JR                     | CA   |
| 58 GR FARIA BROTHERS MAGNUM REUS        | 840003007117106 | 6K               | F   | 69588  | 1   | 66  | 1,589 | 0.12  | 96  | -0.02 | 53   | 599              | 576  | 569  | 3.04 | 3.2 | 0.8  | 1   | 83 | 0.6   | -1.07 | 3.3  | 209 | FARIA DAIRY                           | AZ   |
| 59 GR JER BEL DALE ABBY                 | 116642121       | 3K               |     | 660    | 3   | 70  | 1,546 | -0.01 | 69  | -0.02 | 51   | 547              | 518  | 499  | 2.92 | 3.8 | -0.2 | 2   | 88 | 1.5   | 2.73  | 4.0  | 209 | KING HOWARD & FAMILY                  | OH   |
| 60 MM IMPULS 9245                       | 117231317       | 8K               | F   | 9245   | 2   | 67  | 796   | 0.20  | 76  | 0.12  | 51   | 644              | 526  | 431  | 2.92 | 2.4 | 0.5  | 2   | 83 | 0.6   | 0.94  | 4.0  | 209 | MISTY MEADOW DAIRY                    | OR   |
| 61 K&K CHAMP 2524 3040                  | 067203040       | 3K               |     | 3040   | 2   | 70  | 1,502 | -0.04 | 63  | -0.02 | 50   | 524              | 497  | 483  | 2.96 | 3.0 | 0.2  | 2   | 88 | 1.7   | 3.28  | 9.8  | 209 | HEINZ, LLOYD                          | WI   |
| 62 JCJ MAGNUM 22792                     | 840003007771020 | 80K              | C   | 22792  | 1   | 70  | 1,336 | 0.15  | 90  | 0.01  | 50   | 612              | 561  | 524  | 2.91 | 3.2 | 0.2  | 1   | 81 | 0.9   | 0.54  | 6.3  | 209 | INGURAN LLC DBA SEXING TECHNOLOGIES   | WI   |
| 63 TRINITYS LOUIE CINDY                 | 117128626       | 8K               | C   | 2290   | 2   | 69  | 1,849 | -0.10 | 66  | -0.09 | 49   | 496              | 510  | 528  | 2.88 | 3.6 | -0.1 | 1   | 85 | 1.0   | 3.01  | 6.0  | 209 | EASTGLEN FARMS                        | TX   |
| 64 BARHAMS PLUS ROYALE                  | 117476596       | 3K               |     | 771    | 1   | 70  | 1,344 | 0.01  | 64  | -0.02 | 44   | 592              | 559  | 530  | 2.78 | 4.1 | -0.5 | 1   | 81 | 2.2   | 3.82  | 8.3  | 209 | BARHAM, BILLY                         | TN   |
| 65 FOREST GLEN IMPULS JULES             | 067354132       | 8K               | F   | 4132   | 1   | 64  | 821   | 0.12  | 59  | 0.07  | 42   | 643              | 560  | 490  | 2.85 | 4.9 | 0.8  | 0   | 81 | 0.7   | 3.15  | 3.5  | 209 | BANSEN STANLEY K & DORA H             | OR   |
| 66 PR FARIA BROTHERS RENEGADE VIDIC     | 840003004632591 | 6K               | F   | 86952  | 1   | 53  | 1,385 | 0.09  | 81  | 0.05  | 58   | 552              | 469  | 400  | 2.81 | 1.6 | 0.4  | 1   | 75 | 1.5   | 0.86  | -0.4 | 208 | FARIA BROS DAIRIES                    | TX   |
| 67 PR FARIA BROTHERS VALENTINO 92777    | 840003008537145 | 6K               | C   | 92777  | 1   | 69  | 1,681 | -0.19 | 42  | -0.06 | 49   | 492              | 484  | 482  | 2.85 | 4.0 | -0.2 | 1   | 81 | 1.9   | 4.03  | 7.1  | 208 | FARIA BROS DAIRIES                    | TX   |
| 68 FARIA BROTHERS LOTTO VERONICA        | 840003008534826 | 3K               |     | 101458 | 1   | 67  | 1,656 | -0.01 | 75  | -0.07 | 46   | 524              | 520  | 516  | 2.75 | 3.2 | 0.0  | 1   | 84 | 1.5   | 3.02  | 5.7  | 208 | FARIA DAIRY                           | AZ   |
| 69 HILMAR SPARKY 33086                  | 067433086       | 6K               | F   | 33086  | 1   | 72  | 1,095 | 0.03  | 56  | 0.03  | 43   | 516              | 469  | 436  | 2.99 | 3.4 | 0.2  | 1   | 80 | 1.7   | 5.51  | 8.8  | 208 | AHLEM, CHARLES                        | CA   |
| 70 HEARTLAND VALENTINO DINER            | 067262329       | 3K               |     | 497    | 1   | 69  | 1,617 | -0.08 | 58  | 0.00  | 56   | 476              | 440  | 420  | 3.01 | 2.2 | -0.4 | 1   | 81 | 1.7   | 3.12  | 7.6  | 207 | D & D JERSEYS                         | WI   |
| 71 AHLEM TBONE MAGGIE 31936             | 066069320       | 3K               |     | 31936  | 3   | 73  | 802   | 0.27  | 86  | 0.11  | 51   | 598              | 482  | 390  | 2.98 | 1.2 | -0.2 | 2   | 87 | 1.4   | 3.11  | 8.7  | 207 | AHLEM, WILLIAM JR                     | CA   |
| 72 TOLLENAAR RENEGADE 6917-D176-ET      | 840003007843937 | 3K               |     | 6917   | 0   | 62  | 906   | 0.22  | 85  | 0.07  | 47   | 657              | 574  | 510  | 2.99 | 4.3 | 0.4  | 1   | 79 | 1.2   | 0.78  | 5.9  | 207 | TOLLENAAR JERSEYS                     | CA   |
| 73 HAWARDEN JUPITER MAID                | 067099532       | 3K               |     | 532    | 2   | 70  | 1,294 | -0.08 | 43  | -0.01 | 45   | 525              | 496  | 480  | 3.00 | 4.1 | 1.2  | 2   | 90 | 1.1   | 3.51  | 6.7  | 207 | HAWARDEN JERSEYS INC                  | ID   |
| 74 GOFF ACTION 8493                     | 067178493       | 3K               |     | 8493   | 4   | 59  | 1,772 | -0.16 | 51  | -0.10 | 44   | 484              | 506  | 528  | 2.83 | 3.9 | 1.0  | 2   | 91 | 1.3   | 4.13  | -1.2 | 207 | GOFF, BUSTER                          | NM   |
| 75 JARS OF CLAY PLUS VANESSA            | 067243307       | 3K               |     | 3307   | 1   | 69  | 1,194 | 0.05  | 65  | -0.01 | 42   | 541              | 505  | 475  | 2.84 | 3.2 | 0.0  | 1   | 87 | 1.9   | 5.04  | 7.7  | 207 | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX   |
| 76 GOFF VALENTINO 9595                  | 067209595       | 8K               | F   | 9595   | 1   | 70  | 1,399 | -0.01 | 61  | -0.05 | 40   | 536              | 529  | 523  | 2.79 | 3.8 | 0.2  | 0   |    | 2.4   | 4.86  | 9.1  | 207 | GOFF, BUSTER                          | NM   |
| 77 HILMAR SPARKY 33358                  | 067433358       | 6K               | F   | 33358  | 1   | 72  | 1,060 | 0.07  | 62  | -0.01 | 36   | 534              | 505  | 481  | 2.85 | 3.5 | 0.4  | 1   | 84 | 1.9   | 6.30  | 8.8  | 207 | AHLEM, CHARLES                        | CA   |
| 78 GR FARIA BROTHERS PLUS BECKENBAUER   | 840003008935751 | 6K               | F   | 95263  | 1   | 57  | 1,783 | 0.04  | 89  | 0.00  | 61   | 472              | 439  | 426  | 3.05 | 0.3 | 0.1  | 1   | 80 | 1.1   | 0.82  | -0.7 | 206 | FARIA BROS DAIRIES                    | TX   |
| 79 DUTCH HOLLOW PLUS CHARLA-ET          | 067184361       | 3K               |     | 4361   | 1   | 70  | 1,240 | 0.00  | 54  | 0.02  | 47   | 571              | 519  | 476  | 2.83 | 4.0 | 0.3  | 1   | 84 | 1.6   | 2.87  | 8.4  | 206 | PROVOAST, MELANIE                     | MI   |
| 80 GR FARIA BROTHERS RENEGADE WILFORK   | 840003008321949 | 6K               | F   | 71795  | 1   | 66  | 858   | 0.32  | 100 | 0.08  | 45   | 625              | 543  | 480  | 2.98 | 3.0 | -0.6 | 1   | 87 | 1.1   | 2.23  | 3.9  | 206 | FARIA DAIRY                           | AZ   |
| 81 AHLEM LEGAL VICTORIA 35484           | 069042690       | 8K               | F   | 35484  | 1   | 71  | 1,287 | -0.07 | 46  | -0.02 | 43   | 588              | 551  | 516  | 2.74 | 4.9 | 0.5  | 1   | 78 | 1.3   | 3.19  | 7.8  | 206 | AHLEM, WILLIAM JR                     | CA   |
| 82 SUN VALLEY JUPITER CINDY             | 117018367       | 6K               | F   | 2454   | 2   | 72  | 1,167 | 0.12  | 77  | 0.00  | 43   | 560              | 530  | 518  | 3.13 | 3.8 | 1.0  | 3   | 84 | 1.4   | 2.80  | 7.9  | 206 | SEALS, JEFFREY JAMES                  | OR   |
| 83 GR FARIA BROTHERS PLUS 93125         | 840003008537493 | 6K               | F   | 93125  | 1   | 69  | 1,395 | 0.04  | 71  | -0.04 | 41   | 560              | 548  | 535  | 2.76 | 3.2 | 0.1  | 1   | 81 | 1.2   | 3.24  | 7.3  | 206 | FARIA BROS DAIRIES                    | TX   |
| 84 FOREST GLEN PLUS DOLL                | 067323679       | 3K               |     | 3679   | 1   | 68  | 943   | 0.12  | 65  | 0.04  | 40   | 565              | 512  | 473  | 2.98 | 4.1 | 0.2  | 1   | 83 | 1.6   | 4.93  | 6.7  | 206 | FOREST GLEN JERSEYS                   | OR   |
| 85 PR FARIA BROTHERS MATINEE 19272      | 840003001577217 | 6K               | F   | 19272  | 3   | 63  | 1,706 | 0.02  | 83  | -0.06 | 49   | 600              | 590  | 582  | 2.77 | 3.9 | 0.6  | 0   |    | -0.1  | -0.94 | 2.1  | 205 | FARIA DAIRY                           | AZ   |
| 86 GR FARIA BROTHERS PLUS 95162         | 840003008935650 | 6K               | F   | 95162  | 1   | 69  | 1,288 | 0.06  | 70  | 0.02  | 49   | 524              | 481  | 460  | 3.12 | 2.4 | 0.2  | 0   |    | 1.3   | 3.03  | 5.7  | 205 | FARIA BROS DAIRIES                    | TX   |
| 87 AVI-LANCHE SPARKY MONA 4955          | 840003008324178 | 3K               |     | 4955   | 1   | 71  | 1,515 | -0.09 | 51  | -0.05 | 46   | 501              | 484  | 472  | 2.83 | 3.5 | 0.3  | 1   | 76 | 0.9   | 2.85  | 9.3  | 205 | AVILA RICHARD & JENNIFER M            | TX   |
| 88 D&E SPARKY TAMARA 5152               | 067375152       | 3K               |     | 5152   | 1   | 55  | 1,289 | 0.05  | 68  | 0.00  | 46   | 471              | 434  | 411  | 2.98 | 2.1 | -0.3 | 1   | 76 | 0.8   | 5.26  | 0.8  | 205 | D & E JERSEYS                         | TX   |
| 89 STEINHAUERS RENEGADE CHERRYPIE-ET    | 117255566       | 3K               |     | 602    | 1   | 70  | 850   | 0.20  | 78  | 0.07  | 44   | 569              | 496  | 445  | 3.09 | 2.4 | 0.5  | 1   | 84 | 2.3   | 4.78  | 7.6  | 205 | STEINHAUERS JERSEYS                   | WI   |
| 90 TOLLENAAR TERRY 7275                 | 840003007844295 | 3K               |     | 7275   | 0   | 58  | 1,145 | 0.06  | 65  | 0.06  | 53   | 578              | 493  | 423  | 2.88 | 2.8 | -0.2 | 0   | 82 | 1.2   | 1.59  | 7.1  | 204 | TOLLENAAR JERSEYS                     | CA   |
| 91 TOLLENAAR LEGAL 6439                 | 840003007398517 | 3K               |     | 6439   | 1   | 64  | 1,187 | 0.07  | 69  | 0.00  | 44   | 588              | 547  | 519  | 2.94 | 4.4 | 0.7  | 1   | 81 | 1.3   | 2.54  | 4.7  | 204 | TOLLENAAR JERSEYS                     | CA   |
| 92 D&E RENEGADE 4318                    | 067334318       | 8K               |     | 4318   | 1   | 69  | 739   | 0.15  | 63  | 0.08  | 40   | 643              | 558  | 485  | 2.85 | 4.7 | 0.4  | 1   | 76 | 1.1   | 2.79  | 7.1  | 204 | D & E JERSEYS                         | TX   |
| 93 MULTI-ROSE MAXIMUM ALLY              | 067173057       | 3K               |     | 3057   | 2   | 70  | 1,096 | 0.07  | 63  | 0.00  | 39   | 548              | 513  | 487  | 2.91 | 3.3 | 1.1  | 2   | 90 | 1.3   | 3.80  | 6.6  | 204 | MULTI ROSE JERSEYS INC                | IA   |
| 94 CLOVER PATCH BOLD VALOR              | 117676464       | 8K               | F   | 2110   | 1   | 69  | 967   | 0.06  | 56  | 0.02  | 37   | 541              | 500  | 470  | 2.93 | 3.8 | 0.4  | 0   | 83 | 2.0   | 5.68  | 7.2  | 204 | KOZAK, ALAN                           | OH   |
| 95 FOREST GLEN PLUS FEATHER             | 067323887       | 8K               | F   | 3887   | 1   | 71  | 2,095 | -0.19 | 60  | -0.06 | 64   | 412              | 405  | 413  | 3.04 | 0.8 | -0.2 | 1   | 83 | 0.9   | 1.21  | 7.8  | 203 | BANSEN, DAN K                         | OR   |
| 96 PR FARIA BROTHERS SHAWNEE SHAMMOND   | 840003005335347 | 3K               |     | 46359  | 2   | 63  | 2,288 | -0.18 | 71  | -0.14 | 56   | 462              | 494  | 523  | 2.75 | 2.0 | 0.2  | 3   | 85 | 0.3   | -1.19 | 3.3  | 203 | FARIA BROS DAIRIES                    | TX   |
| 97 FOREST GLEN PLUS CASS                | 067323929       | 8K               | C   | 3929   | 1   | 73  | 1,649 | -0.06 | 65  | -0.02 | 55   | 448              | 426  | 424  | 3.13 | 1.6 | -0.2 | 1   | 86 | 1.6   | 3.21  | 9.4  | 203 | BANSEN STANLEY K & DORA H             | OR   |
| 98 PR FARIA BROTHERS 80584              | 840003007108793 | 6K               | F   | 80584  | 2   | 57  | 1,644 | -0.01 | 74  | -0.05 | 49   | 507              | 496  | 492  | 2.87 | 2.7 | -0.6 | 0   |    | 1.5   | 3.36  | 1.7  | 203 | FARIA BROS DAIRIES                    | TX   |
| 99 TOLLENAAR RENEGADE 6911-D106-ET      | 840003007843931 | 3K               |     | 6911   | 0   | 63  | 938   | 0.21  | 83  | 0.07  | 48   | 616              | 532  | 469  | 3.00 | 3.4 | 0.1  | 1   | 74 | 1.2   | 1.14  | 6.3  | 203 | TOLLENAAR JERSEYS                     | CA   |
| 100 PR FARIA BROTHERS APPARTITION 16837 | 840003001574782 | 6K               | F   | 16837  | 4   | 59  | 1,209 | 0.02  | 58  | 0.00  | 43   | 577              | 535  | 499  | 2.82 | 4.1 | 1.3  | 0   | 81 | 0.4   | 2.26  | -0.8 | 203 | FARIA DAIRY                           | AZ   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #           | GT  | JH1 | CCN    | Rec | Rel | GPTA  |       |     |       |      |      |      |      |      |     | TYPE |     |    |      |       |     |      |                                       | Owner | ST |
|--|-----------------|-----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|-----|------|---------------------------------------|-------|----|
|  |                 |     |     |        |     |     | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI | GJPI |                                       |       |    |
| 101 BW RENEGADE PANSY U889             | 117318542       | 3K  |     | 50889  | 1   | 69  | 606   | 0.26  | 76  | 0.06  | 33   | 637  | 567  | 505  | 2.85 | 4.0 | 1.1  | 2   | 87 | 1.9  | 3.93  | 7.5 | 203  | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX    |    |
| 102 GR FARIA BROTHERS PLUS 92841       | 840003008537209 | 6K  | F   | 92841  | 1   | 69  | 1,847 | -0.11 | 65  | -0.07 | 52   | 402  | 409  | 427  | 3.00 | 1.1 | -0.2 | 1   | 86 | 2.2  | 4.62  | 6.0 | 202  | FARIA BROS DAIRIES                    | TX    |    |
| 103 CAL-MART CHAMP REEBIE 3913         | 117491858       | 8K  | C   | 3913   | 1   | 72  | 1,515 | -0.03 | 63  | -0.01 | 52   | 460  | 431  | 421  | 3.08 | 1.6 | 0.0  | 1   | 87 | 1.4  | 2.92  | 9.0 | 202  | MARTIN DAIRY LLC                      | OR    |    |
| 104 SUNSET CANYON IMPULS R MAID        | 117595440       | 3K  |     | 2018   | 1   | 66  | 998   | 0.12  | 68  | 0.08  | 52   | 588  | 501  | 441  | 3.11 | 3.1 | 0.9  | 0   | 76 | 0.8  | 0.90  | 5.2 | 202  | SILVA, ERIC LEONARD                   | OR    |    |
| 105 TOLLENAAR HEADLINE 6652C024-ET     | 840003007398730 | 3K  |     | 479    | 1   | 70  | 1,600 | -0.08 | 58  | -0.03 | 50   | 540  | 530  | 534  | 3.04 | 5.6 | 0.2  | 1   | 83 | 1.0  | 0.91  | 8.0 | 202  | D & D JERSEYS AND HEINZ LLOYD         | WI    |    |
| 106 STEINHAUERS PLUS RHUBARBPIE-ET     | 117473922       | 3K  |     | 637    | 1   | 70  | 1,350 | -0.03 | 54  | 0.01  | 49   | 480  | 446  | 429  | 3.08 | 2.3 | 0.5  | 1   | 85 | 2.1  | 4.70  | 8.4 | 202  | STEINHAUERS JERSEYS                   | WI    |    |
| 107 GR CDF TBONE ABE J24748            | 840003004261260 | 3K  |     | 24748  | 3   | 73  | 1,180 | 0.02  | 60  | 0.01  | 44   | 530  | 491  | 464  | 2.96 | 3.9 | -0.2 | 2   | 87 | 2.2  | 3.99  | 9.5 | 202  | C & S LIVESTOCK                       | CA    |    |
| 108 GR DEN-KEL JAMBOREE-ET             | 067100779       | 3K  |     | 1779   | 1   | 64  | 1,171 | 0.08  | 69  | 0.01  | 43   | 544  | 498  | 457  | 2.79 | 3.9 | -0.4 | 1   | 86 | 1.6  | 3.83  | 3.4 | 202  | ROWLEY, STEVE                         | MS    |    |
| 109 GR FARIA BROTHERS IMPULS 75981     | 840003004628620 | 3K  |     | 75981  | 1   | 51  | 874   | 0.07  | 55  | 0.06  | 43   | 577  | 497  | 431  | 2.88 | 3.8 | 0.2  | 0   |    | 1.1  | 4.38  | 0.6 | 202  | FARIA BROS DAIRIES                    | TX    |    |
| 110 DP LOUIE MYALEAN 853               | 067096853       | 8K  | F   | 853    | 1   | 70  | 1,277 | 0.11  | 78  | -0.04 | 38   | 571  | 561  | 556  | 2.88 | 4.3 | 0.7  | 1   | 83 | 1.2  | 3.43  | 6.2 | 202  | DESERT PARK JERSEYS                   | OR    |    |
| 111 PR FARIA BROTHERS VENERABLE 65000  | 840003006263451 | 6K  | F   | 65000  | 2   | 70  | 1,986 | -0.06 | 82  | -0.05 | 62   | 475  | 462  | 465  | 3.03 | 1.2 | -0.9 | 1   | 82 | 0.9  | -0.24 | 6.9 | 201  | FARIA DAIRY                           | AZ    |    |
| 112 BILTMORE VITO BRENDA 3017          | 067363017       | 8K  | F   | 3017   | 1   | 71  | 1,381 | -0.01 | 61  | 0.05  | 59   | 533  | 457  | 403  | 3.02 | 3.1 | -1.5 | 0   | 83 | 1.2  | 1.37  | 8.0 | 201  | BILTMORE FARMS                        | NC    |    |
| 113 GR HILMAR JET 19994                | 067319994       | 6K  | F   | 19994  | 4   | 68  | 1,804 | -0.16 | 51  | -0.05 | 55   | 453  | 438  | 433  | 2.93 | 2.4 | 0.6  | 2   | 88 | 0.5  | 1.53  | 3.2 | 201  | AHLEM, CHARLES                        | CA    |    |
| 114 JO-KIRCH MATINEE CRANBERRY         | 116698579       | 3K  |     | 797    | 2   | 70  | 1,566 | 0.13  | 97  | -0.01 | 52   | 547  | 515  | 494  | 2.90 | 1.4 | -0.9 | 2   | 84 | 0.4  | 0.10  | 6.4 | 201  | KIRCHDOERFER, CARL S                  | MO    |    |
| 115 GR FARIA BROTHERS PLUS 94555       | 840003008935043 | 6K  | F   | 94555  | 1   | 71  | 1,653 | -0.09 | 58  | -0.04 | 51   | 493  | 478  | 471  | 2.91 | 2.3 | -0.1 | 1   | 85 | 1.8  | 2.80  | 6.8 | 201  | FARIA BROS DAIRIES                    | TX    |    |
| 116 GR CAL-MART GANNON PEYTON 3113     | 116896182       | 8K  | F   | 3113   | 2   | 70  | 1,598 | 0.06  | 86  | -0.04 | 50   | 465  | 446  | 438  | 2.92 | 2.2 | -1.2 | 2   | 83 | 1.3  | 3.27  | 4.5 | 201  | MARTIN DAIRY LLC                      | OR    |    |
| 117 GABYS VIBRANT BRAZIL               | 117477289       | 50K | F   | 168    | 1   | 73  | 1,618 | -0.13 | 48  | -0.05 | 48   | 509  | 505  | 512  | 2.98 | 4.9 | -0.8 | 1   | 86 | 1.1  | 2.21  | 8.6 | 201  | RIVER VALLEY FARM                     | IL    |    |
| 118 AVI-LANCHE SPARKY MAGNOLIA 5155    | 067375155       | 8K  | F   | 5155   | 1   | 73  | 1,492 | 0.00  | 70  | -0.04 | 48   | 448  | 433  | 431  | 3.02 | 1.1 | -0.2 | 1   | 87 | 1.3  | 4.01  | 8.6 | 201  | AVILA RICHARD & JENNIFER M            | TX    |    |
| 119 MILITIAS MONICA                    | 116482028       | 3K  |     | 964    | 3   | 72  | 1,261 | 0.01  | 59  | 0.01  | 46   | 527  | 490  | 468  | 3.03 | 3.4 | 0.3  | 3   | 91 | 1.6  | 3.76  | 7.2 | 201  | HETTINGA, JASON                       | IA    |    |
| 120 VALSIGNA TBONE 12677               | 116453532       | 3K  |     | 12677  | 3   | 72  | 936   | 0.14  | 71  | 0.06  | 45   | 579  | 508  | 456  | 3.02 | 3.3 | 0.5  | 2   | 80 | 0.7  | 1.35  | 8.7 | 201  | WICKSTROM DAIRIES, LP                 | CA    |    |
| 121 JARS OF CLAY IMPULS KRISTINA       | 067333044       | 8K  | F   | 3044   | 2   | 70  | 741   | 0.10  | 52  | 0.10  | 45   | 628  | 529  | 448  | 2.92 | 4.8 | 0.0  | 2   | 83 | 0.8  | 2.62  | 5.1 | 201  | RANCHO TERESITA DAIRY                 | CA    |    |
| 122 GR FARIA BROTHERS VALENTINO 102160 | 840003008535528 | 6K  | F   | 102160 | 1   | 59  | 1,363 | 0.00  | 63  | -0.03 | 43   | 497  | 476  | 463  | 2.88 | 3.3 | -0.2 | 0   |    | 1.4  | 4.78  | 1.3 | 201  | FARIA DAIRY                           | AZ    |    |
| 123 HI-KEL TBONE PFENNIG-ET            | 067100742       | 3K  |     | 746    | 1   | 70  | 1,011 | 0.14  | 72  | 0.03  | 43   | 515  | 458  | 416  | 2.99 | 2.3 | -0.6 | 1   | 86 | 2.3  | 5.67  | 8.9 | 201  | RIVER VALLEY FARM                     | IL    |    |
| 124 GR FARIA BROTHERS IMPULS 87856     | 840003004633495 | 6K  | F   | 87856  | 1   | 59  | 1,000 | 0.04  | 53  | 0.04  | 43   | 565  | 506  | 460  | 2.94 | 4.1 | 1.0  | 1   | 84 | 1.1  | 3.02  | 1.6 | 201  | FARIA BROS DAIRIES                    | TX    |    |
| 125 HILMAR SPARKY 32802                | 067432802       | 6K  | F   | 32802  | 1   | 69  | 675   | 0.08  | 46  | 0.06  | 35   | 583  | 508  | 440  | 2.80 | 4.0 | 0.7  | 1   | 81 | 1.3  | 4.94  | 7.4 | 201  | AHLEM, CHARLES                        | CA    |    |
| 126 SUNSET CANYON VALEN DIXIE 963-ET   | 117352496       | 50K | F   | 1963   | 0   | 69  | 1,698 | -0.13 | 53  | -0.07 | 47   | 475  | 477  | 483  | 2.84 | 3.6 | -1.2 | 0   | 83 | 2.4  | 4.06  | 9.5 | 200  | SILVA, ERIC LEONARD                   | OR    |    |
| 127 FOREST GLEN IMPULS TAMI            | 067481316       | 3K  |     | 1316   | 3   | 69  | 837   | 0.21  | 77  | 0.09  | 46   | 654  | 564  | 494  | 2.98 | 4.5 | 0.3  | 2   | 84 | 0.4  | 0.09  | 4.8 | 200  | FOREST GLEN JERSEYS                   | OR    |    |
| 128 CLOVER PATCH LEGAL RAMBLE          | 117268472       | 8K  | F   | 1896   | 2   | 70  | 1,420 | 0.02  | 69  | -0.03 | 45   | 513  | 494  | 483  | 2.91 | 3.0 | 0.3  | 1   | 79 | 1.5  | 2.82  | 6.0 | 200  | KOZAK, ALAN                           | OH    |    |
| 129 CAL-MART BLADE DANICE 3896         | 117481431       | 3K  |     | 3896   | 1   | 67  | 929   | 0.19  | 78  | 0.06  | 45   | 616  | 533  | 461  | 2.80 | 3.7 | -0.4 | 1   | 78 | 0.7  | 1.44  | 6.0 | 200  | MARTIN DAIRY LLC                      | OR    |    |
| 130 PR FARIA BROTHERS ACTION PAYTON    | 840003001853417 | 3K  |     | 42443  | 4   | 60  | 1,335 | -0.05 | 51  | -0.02 | 43   | 507  | 486  | 474  | 2.92 | 4.3 | 0.5  | 0   | 86 | 1.5  | 4.40  | 0.3 | 200  | FARIA BROS DAIRIES                    | TX    |    |
| 131 HILMAR SPARKY 28984                | 067328984       | 3K  |     | 28984  | 1   | 70  | 1,082 | 0.11  | 70  | 0.02  | 42   | 526  | 483  | 452  | 2.97 | 3.2 | -0.6 | 1   | 72 | 1.6  | 4.50  | 9.1 | 200  | AHLEM, CHARLES                        | CA    |    |
| 132 IMPULS MONICAS MARVEL-ET           | 116279570       | GI  |     | 1195   | 2   | 63  | 762   | 0.05  | 46  | 0.05  | 37   | 598  | 530  | 473  | 2.87 | 5.0 | 1.2  | 2   | 87 | 1.5  | 3.93  | 4.0 | 200  | ALLEN, DAVID                          | WI    |    |
| 133 PR FARIA BROTHERS VALENTINO 87783  | 840003004633422 | 6K  | F   | 87783  | 1   | 66  | 2,222 | -0.18 | 67  | -0.10 | 60   | 418  | 438  | 469  | 2.98 | 1.9 | -0.8 | 1   | 83 | 0.9  | 0.82  | 4.1 | 199  | FARIA BROS DAIRIES                    | TX    |    |
| 134 MS JUPITER 3257 G068               | 116885595       | 3K  |     | 7068   | 2   | 71  | 1,429 | 0.08  | 81  | 0.04  | 59   | 485  | 427  | 398  | 3.21 | 0.7 | 0.1  | 2   | 80 | 0.6  | 0.42  | 6.5 | 199  | MOUNTAIN SHADOW DAIRY                 | AZ    |    |
| 135 GR ALL LYNN'S DALE VICTORIA-ET     | 116891954       | 3K  |     | 1271   | 1   | 68  | 1,713 | -0.04 | 70  | -0.02 | 58   | 453  | 432  | 434  | 3.19 | 2.7 | -1.0 | 1   | 81 | 0.7  | 2.06  | 4.6 | 199  | ALLEN, DAVID                          | WI    |    |
| 136 GR FARIA BROTHERS BLADE 89028      | 840003004634667 | 6K  | F   | 89028  | 1   | 70  | 1,192 | 0.08  | 71  | 0.04  | 51   | 543  | 478  | 433  | 3.02 | 3.2 | 0.0  | 1   | 81 | 0.4  | 1.31  | 5.4 | 199  | FARIA BROS DAIRIES                    | TX    |    |
| 137 AVI-LANCHE SPARKY MINNIE 4981      | 840003008324152 | 6K  | C   | 4981   | 1   | 71  | 1,581 | -0.06 | 60  | -0.03 | 50   | 459  | 443  | 438  | 2.97 | 2.4 | -0.6 | 1   | 78 | 0.7  | 2.61  | 7.8 | 199  | AVILA RICHARD & JENNIFER M            | TX    |    |
| 138 FOREST GLEN ABES MINDEN            | 067048743       | 3K  |     | 8743   | 5   | 74  | 1,131 | 0.07  | 66  | 0.05  | 48   | 547  | 480  | 428  | 2.93 | 2.7 | 0.4  | 3   | 90 | 0.8  | 1.09  | 6.9 | 199  | BANSEN, DAN K                         | OR    |    |
| 139 GR FARIA BROTHERS RENEGADE DROGBA  | 840003004632441 | 6K  | F   | 86802  | 1   | 62  | 1,151 | 0.18  | 86  | 0.02  | 46   | 596  | 533  | 480  | 2.80 | 2.8 | 0.1  | 1   | 83 | 0.7  | 1.10  | 2.3 | 199  | FARIA BROS DAIRIES                    | TX    |    |
| 140 AHLEM LEGAL GENEVEVE 35783         | 069042989       | 8K  | F   | 35783  | 1   | 70  | 1,004 | 0.10  | 64  | 0.01  | 39   | 555  | 510  | 476  | 2.91 | 3.8 | 1.4  | 1   | 75 | 1.6  | 3.24  | 7.2 | 199  | AHLEM, WILLIAM JR                     | CA    |    |
| 141 JER-Z-BOYZ MAGNUM 34205            | 118480451       | 8K  | F   | 34205  | 1   | 70  | 1,165 | 0.12  | 75  | 0.03  | 45   | 572  | 528  | 502  | 3.06 | 3.5 | 0.7  | 1   | 90 | 0.8  | 1.29  | 6.6 | 198  | JER-Z-BOYZ                            | CA    |    |
| 142 HAWARDEN PREMIER PUFFER            | 067125625       | 3K  |     | 625    | 0   | 54  | 707   | 0.20  | 69  | 0.08  | 41   | 629  | 544  | 475  | 2.94 | 4.7 | 0.5  | 0   | 83 | 0.9  | 2.30  | 4.0 | 198  | HAWARDEN JERSEYS INC                  | ID    |    |
| 143 TOLLENAAR HISTORY 5834             | 840003005646628 | 3K  |     | 5834   | 1   | 64  | 714   | 0.23  | 75  | 0.05  | 37   | 617  | 545  | 484  | 2.88 | 3.9 | 0.7  | 2   | 82 | 1.4  | 3.78  | 4.7 | 198  | TOLLENAAR JERSEYS                     | CA    |    |
| 144 CAL-MART BLADE LAURA 3874          | 117475241       | 3K  |     | 3874   | 1   | 66  | 1,204 | 0.13  | 82  | 0.05  | 53   | 566  | 489  | 432  | 2.97 | 2.6 | -0.2 | 1   | 72 | 0.9  | 0.46  | 4.4 | 197  | MARTIN DAIRY LLC                      | OR    |    |
| 145 GR JER-Z-BOYZ BOLD 36603           | 117958825       | 8K  | F   | 36603  | 1   | 68  | 1,782 | -0.10 | 63  | -0.07 | 50   | 432  | 434  | 444  | 2.91 | 2.0 | -0.6 | 1   | 80 | 1.6  | 3.61  | 5.2 | 197  | JER-Z-BOYZ                            | CA    |    |
| 146 TJF PLUS ROXY 963                  | 117349900       | 8K  | F   | 963    | 1   | 71  | 1,423 | -0.10 | 45  | 0.00  | 49   | 486  | 453  | 433  | 2.98 | 3.0 | 0.4  | 2   | 87 | 1.3  | 3.35  | 8.7 | 197  | TAYLOR JERSEY FARM INC                | MS    |    |
| 147 ALL LYNN'S LOTTO VADKA-ET          | 117332072       | 3K  |     | 51400  | 1   | 72  | 1,396 | 0.03  | 72  | -0.02 | 47   | 547  | 511  | 481  | 2.80 | 3.8 | -0.9 | 1   | 86 | 1.2  | 1.98  | 8.8 | 197  | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX    |    |
| 148 WAUNAKEE HEADLINE JENNY 2785       | 069781443       | 3K  |     | 2785   | 1   | 69  | 1,485 | -0.14 | 42  | -0.06 | 42   | 519  | 516  | 516  | 2.83 | 5.6 | 0.0  | 2   | 86 | 1.6  | 3.13  | 7.5 | 197  | LAUFENBERG, GERALD                    | WI    |    |
| 149 PR FARIA BROTHERS ACTION MCHALE    | 840003001860679 | 3K  |     | 38035  | 4   | 63  | 1,380 | -0.07 | 50  | -0.07 | 37   | 501  | 504  | 506  | 2.80 | 4.3 | 0.6  | 0   | 88 | 1.7  | 5.10  | 1.2 | 197  | FARIA BROS DAIRIES                    | TX    |    |
| 150 AHLEM LEGAL CHARM 35621            | 069042827       | 3K  |     | 35621  | 1   | 69  | 1,070 | 0.03  | 57  | -0.01 | 37   | 534  | 511  | 500  | 3.01 | 4.5 | 0.5  | 2   | 85 | 2.2  | 4.71  | 8.4 | 197  | AHLEM, WILLIAM JR                     | CA    |    |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |    |      |       |      |      | Owner                                 | ST                             |    |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|----|------|-------|------|------|---------------------------------------|--------------------------------|----|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   | GFI  | GJPI |                                       |                                |    |
| 151 HEARTLAND HEADLINE DELL             | 067262354       | 8K  | F   | 90027            | 1   | 70  | 1,385 | -0.12 | 37  | -0.08 | 33   | 536  | 561  | 586              | 2.91 | 7.0  | 1.7  | 1   | 83 | 1.6  | 3.68  | 6.0  | 197  | STEEER, ALEX                          | TX                             |    |
| 152 FOREST GLEN PLUS SANDY              | 067323936       | 8K  | F   | 3936             | 1   | 70  | 1,834 | -0.07 | 70  | -0.04 | 59   | 397  | 374  | 367              | 3.00 | -0.3 | -0.7 | 0   | 84 | 1.7  | 2.97  | 6.1  | 196  | BANSEN, DAN K                         | OR                             |    |
| 153 BW RENEGADE HOLLY U646              | 117213829       | 6K  | F   | 721              | 1   | 72  | 1,118 | 0.09  | 69  | 0.07  | 52   | 497  | 421  | 369              | 3.09 | 2.0  | -0.5 | 1   | 86 | 1.9  | 2.97  | 7.6  | 196  | BRENTWOOD FARMS                       | CA                             |    |
| 154 PR FARIA BROTHERS TBONE SEAN TAYLOR | 840003004414568 | 3K  | F   | 60561            | 3   | 67  | 1,782 | -0.16 | 49  | -0.06 | 51   | 426  | 427  | 438              | 2.95 | 2.6  | 0.0  | 2   | 88 | 1.8  | 2.76  | 5.3  | 196  | FARIA BROS DAIRIES                    | TX                             |    |
| 155 GR FARIA BROTHERS VALENTINO 92372   | 840003008536740 | 6K  | F   | 92372            | 1   | 69  | 1,559 | -0.09 | 54  | -0.04 | 48   | 464  | 449  | 441              | 2.88 | 2.7  | -1.0 | 1   | 88 | 2.4  | 4.88  | 5.7  | 196  | FARIA BROS DAIRIES                    | TX                             |    |
| 156 GR AVI-LANCHE HONOR ALTON 5356      | 067375356       | 8K  | C   | 5356             | 1   | 70  | 1,791 | -0.16 | 52  | -0.09 | 47   | 423  | 448  | 484              | 3.07 | 2.5  | 0.4  | 1   | 74 | 1.1  | 3.72  | 7.0  | 196  | AVILA RICHARD & JENNIFER M            | TX                             |    |
| 157 D&E CACTUS PEGGY 22260              | 067422260       | 3K  | F   | 22260            | 1   | 67  | 1,461 | -0.03 | 62  | -0.04 | 45   | 516  | 505  | 503              | 2.95 | 3.4  | 0.8  | 1   | 84 | 1.0  | 1.80  | 6.5  | 196  | RIVER VALLEY FARM                     | IL                             |    |
| 158 ALL LYNNS VALENTINO ROXY            | 117332036       | 3K  | F   | 1388             | 1   | 70  | 1,223 | -0.06 | 45  | -0.01 | 41   | 535  | 504  | 480              | 2.85 | 4.8  | 0.0  | 1   | 82 | 1.7  | 4.61  | 9.0  | 196  | ALLEN, DAVID                          | WI                             |    |
| 159 DP PLUS SHAWNA 913                  | 067106913       | 8K  | F   | 913              | 1   | 69  | 1,059 | 0.12  | 69  | 0.02  | 41   | 529  | 483  | 446              | 2.89 | 2.5  | 0.6  | 1   | 88 | 1.4  | 3.80  | 5.8  | 196  | DESERT PARK JERSEYS                   | OR                             |    |
| 160 HILMAR SPARKY 29906                 | 067329906       | 6K  | F   | 29906            | 1   | 73  | 1,195 | -0.05 | 45  | -0.01 | 40   | 507  | 475  | 448              | 2.82 | 3.7  | 0.3  | 1   | 81 | 1.8  | 4.36  | 7.9  | 196  | AHLEM, CHARLES                        | CA                             |    |
| 161 PR FARIA BROTHERS ABE 26196         | 840003004251129 | 6K  | F   | 26196            | 4   | 72  | 1,856 | -0.04 | 78  | -0.02 | 63   | 482  | 440  | 411              | 2.88 | 0.8  | -1.2 | 0   | 85 | 0.2  | -1.20 | 4.7  | 195  | FARIA BROS DAIRIES                    | TX                             |    |
| 162 MOLLY BROOK UPPERCUT FAVORITE       | 067128544       | 3K  | F   | 544              | 1   | 66  | 1,582 | -0.12 | 50  | -0.02 | 53   | 474  | 442  | 422              | 2.93 | 2.3  | 1.0  | 1   | 75 | 1.2  | 1.07  | 7.2  | 195  | GREEN, EMILY                          | MI                             |    |
| 163 SUN VALLEY IMPULS POLYNANETTE       | 116926100       | 50K | C   | 2441             | 1   | 71  | 1,075 | 0.02  | 52  | 0.07  | 52   | 512  | 429  | 367              | 3.01 | 2.3  | 0.3  | 1   | 81 | 0.8  | 1.86  | 6.7  | 195  | SUN VALLEY FARM                       | OR                             |    |
| 164 HILMAR SPIKE 26974                  | 067326974       | 3K  | F   | 26974            | 2   | 72  | 1,596 | -0.05 | 65  | -0.03 | 50   | 447  | 428  | 416              | 2.89 | 1.2  | -1.2 | 2   | 88 | 2.0  | 3.81  | 9.0  | 195  | AHLEM, CHARLES                        | CA                             |    |
| 165 CAL-MART TBONE JACKIE 3597          | 117247347       | 3K  | F   | 3597             | 2   | 70  | 1,231 | 0.02  | 61  | 0.02  | 48   | 516  | 462  | 424              | 2.95 | 2.9  | 0.5  | 2   | 83 | 1.2  | 2.34  | 7.9  | 195  | MARTIN DAIRY LLC                      | OR                             |    |
| 166 PR FARIA BROTHERS SHAWNEE 65201     | 840003006263652 | 8K  | F   | 65201            | 2   | 65  | 1,540 | 0.00  | 71  | -0.04 | 47   | 519  | 505  | 498              | 2.91 | 2.9  | 0.8  | 0   |    |      | 0.07  | 3.8  | 195  | FARIA DAIRY                           | AZ                             |    |
| 167 HEARTLAND LEGAL GLOW                | 067342194       | 50K | C   | 32194            | 1   | 72  | 1,357 | -0.03 | 58  | -0.01 | 47   | 482  | 459  | 455              | 3.12 | 3.6  | 0.7  | 1   | 83 | 1.6  | 2.69  | 7.6  | 195  | D & E JERSEYS                         | TX                             |    |
| 168 BW RENEGADE ABBY W15                | 117398904       | 3K  | F   | 1212             | 1   | 69  | 1,073 | 0.13  | 74  | 0.04  | 47   | 539  | 474  | 426              | 2.99 | 2.6  | 0.1  | 1   | 84 | 1.8  | 2.16  | 6.4  | 195  | BRENTWOOD FARMS                       | CA                             |    |
| 169 DUPAT PLUS 8568                     | 067148568       | 3K  | F   | 8568             | 1   | 69  | 1,358 | -0.02 | 59  | -0.01 | 45   | 520  | 491  | 468              | 2.83 | 2.9  | 0.4  | 0   | 87 | 1.4  | 1.96  | 6.8  | 195  | WICKSTROM JERSEY FARMS INC            | CA                             |    |
| 170 LUCKY HILL LEGAL STARDROP           | 117469800       | 3K  | F   | 841              | 1   | 69  | 1,568 | -0.15 | 44  | -0.06 | 44   | 493  | 496  | 505              | 2.92 | 4.9  | 0.6  | 1   | 80 | 1.2  | 2.62  | 7.9  | 195  | LUCKY HILL FARM                       | VT                             |    |
| 171 HAWARDEN JUPITER NORA               | 067099543       | 8K  | F   | 543              | 1   | 71  | 1,317 | 0.08  | 74  | -0.02 | 44   | 492  | 476  | 475              | 3.09 | 2.8  | 0.1  | 1   | 87 | 1.7  | 2.67  | 7.9  | 195  | HAWARDEN JERSEYS INC                  | ID                             |    |
| 172 AHLEM LEGAL WYN 35647               | 069042853       | 3K  | F   | 35647            | 1   | 66  | 718   | 0.05  | 43  | 0.05  | 37   | 533  | 461  | 398              | 2.85 | 4.1  | -0.1 | 2   | 81 | 2.2  | 7.01  | 5.8  | 195  | AHLEM, WILLIAM JR                     | CA                             |    |
| 173 ALL LYNNS PLUS VALUE-ET             | 117332018       | 3K  | F   | 1390             | 1   | 66  | 1,462 | -0.07 | 55  | 0.01  | 53   | 480  | 438  | 413              | 3.01 | 2.8  | -0.6 | 1   | 78 | 1.4  | 2.50  | 5.7  | 194  | ALLEN, DAVID                          | WI                             |    |
| 174 DUPAT VALENTINO 8707-ET             | 067148707       | 3K  | F   | 8707             | 1   | 69  | 1,567 | -0.05 | 62  | -0.04 | 48   | 483  | 468  | 459              | 2.89 | 3.0  | -0.6 | 0   | 80 | 1.3  | 2.42  | 6.4  | 194  | WICKSTROM JERSEY FARMS INC            | CA                             |    |
| 175 GOLDUST GERONIMO LEANNA-ET          | 067141512       | 50K | F   | 1512             | 3   | 78  | 1,176 | -0.03 | 49  | 0.04  | 48   | 498  | 433  | 379              | 2.85 | 1.8  | 0.0  | 2   | 92 | 1.1  | 3.46  | 8.6  | 194  | LOURENZO, KEVIN B                     | ID                             |    |
| 176 CLOVER PATCH BOLD BRONZE            | 117676343       | 3K  | F   | 2097             | 1   | 69  | 1,518 | -0.04 | 61  | -0.05 | 45   | 457  | 460  | 476              | 3.07 | 2.8  | 0.1  | 0   | 85 | 1.5  | 3.57  | 9.6  | 194  | KOZAK, ALAN                           | OH                             |    |
| 177 D&E LEGAL BLITZEN 22251-ET          | 067422251       | 3K  | F   | 22251            | 1   | 69  | 1,167 | -0.05 | 46  | 0.01  | 44   | 480  | 436  | 403              | 2.94 | 3.3  | -0.1 | 1   | 81 | 2.1  | 5.16  | 7.8  | 194  | D & E JERSEYS                         | TX                             |    |
| 178 CLOVER PATCH BOLD GIGI              | 117674574       | 8K  | F   | 2069             | 1   | 68  | 1,256 | 0.00  | 60  | -0.01 | 43   | 480  | 452  | 433              | 2.93 | 2.3  | 0.4  | 0   | 74 | 1.6  | 4.13  | 5.6  | 194  | KOZAK, ALAN                           | OH                             |    |
| 179 NYMANS MAGNUM 14002                 | 117286429       | 80K | F   | 14002            | 1   | 70  | 1,254 | 0.02  | 63  | -0.02 | 42   | 512  | 483  | 461              | 2.88 | 2.7  | 0.5  | 1   | 78 | 1.3  | 3.13  | 5.5  | 194  | INGURAN LLC DBA SEXING TECHNOLOGIES   | TX                             |    |
| 180 ALL LYNNS VALENTINO ALISON          | 117483255       | 50K | F   | 1438             | 1   | 73  | 1,182 | 0.00  | 53  | -0.01 | 40   | 534  | 492  | 446              | 2.61 | 3.6  | -0.4 | 1   | 84 | 2.2  | 4.41  | 10.0 | 194  | ALLEN, DAVID                          | WI                             |    |
| 181 PR HILMAR JAS BUNGY 26212           | 067326212       | 6K  | F   | 26212            | 2   | 69  | 835   | 0.04  | 46  | 0.03  | 36   | 631  | 576  | 527              | 2.82 | 6.3  | 1.8  | 2   | 80 | 0.7  | 0.93  | 3.5  | 194  | AHLEM, CHARLES                        | CA                             |    |
| 182 AHLEM ALLSTAR NITA 36001            | 070047475       | 3K  | F   | 36001            | 1   | 68  | 396   | 0.33  | 79  | 0.11  | 36   | 606  | 499  | 406              | 2.85 | 2.7  | -0.1 | 2   | 85 | 1.6  | 4.50  | 7.4  | 194  | AHLEM, WILLIAM JR                     | CA                             |    |
| 183 PR FARIA BROTHERS STONE 56779       | 840003006061417 | 6K  | F   | 56779            | 2   | 72  | 1,543 | -0.12 | 49  | 0.00  | 56   | 412  | 360  | 322              | 2.88 | 0.8  | -1.2 | 2   | 90 | 1.3  | 3.55  | 8.0  | 193  | FARIA BROS DAIRIES                    | TX                             |    |
| 184 JER BEL VANDYKE LIOLA               | 117389869       | 3K  | F   | 770              | 1   | 69  | 1,424 | 0.01  | 65  | -0.02 | 47   | 485  | 462  | 450              | 2.97 | 3.5  | -0.4 | 1   | 83 | 1.5  | 3.29  | 7.0  | 193  | KING HOWARD & FAMILY                  | OH                             |    |
| 185 DUTCH HOLLOW VALENTINO CHER-ET      | 067184309       | 3K  | F   | 4309             | 1   | 71  | 1,418 | -0.09 | 49  | -0.01 | 47   | 450  | 419  | 394              | 2.83 | 2.3  | -0.9 | 2   | 85 | 2.1  | 4.16  | 9.1  | 193  | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX                             |    |
| 186 FOREST GLEN IMPULS ANNABELL         | 067282387       | 3K  | F   | 2387             | 2   | 68  | 762   | 0.26  | 86  | 0.10  | 47   | 611  | 504  | 418              | 2.93 | 2.8  | -0.6 | 2   | 79 | 0.2  | 0.60  | 4.5  | 193  | FOREST GLEN JERSEYS                   | OR                             |    |
| 187 GR GOLDUST GARDEN LEANNA-ET         | 067221690       | 3K  | F   | 1690             | 3   | 72  | 1,280 | 0.03  | 64  | 0.00  | 46   | 482  | 442  | 413              | 2.93 | 2.7  | -0.3 | 2   | 90 | 1.1  | 4.03  | 4.1  | 193  | LOURENZO, KEVIN B                     | ID                             |    |
| 188 STEINHAUERS PLUS HUCKLEBERRYPIE-ET  | 117584862       | 3K  | F   | 658              | 1   | 69  | 1,166 | 0.03  | 58  | 0.02  | 44   | 466  | 427  | 403              | 3.01 | 1.8  | 0.5  | 0   |    |      | 1.7   | 4.77 | 8.2  | 193                                   | STEINHAUERS JERSEYS            | WI |
| 189 HEI-BRI IMPULS SHANNON              | 067100697       | 6K  | F   | 697              | 1   | 61  | 877   | 0.16  | 70  | 0.06  | 43   | 547  | 475  | 420              | 2.97 | 2.5  | 0.8  | 1   | 85 | 1.4  | 2.79  | 4.4  | 193  | LANTZKY BRIAN & HEIDI & FAMILY        | IA                             |    |
| 190 GABYS IMPULS SHERBERT-ET            | 116109929       | 3K  | F   | 33               | 3   | 70  | 669   | 0.23  | 74  | 0.08  | 41   | 627  | 532  | 450              | 2.84 | 3.7  | 0.6  | 2   | 86 | 0.9  | 1.35  | 6.0  | 193  | ROWLEY, STEVE                         | MS                             |    |
| 191 GR FARIA BROTHERS RENEGADE 91616    | 840003008304726 | 6K  | F   | 91616            | 1   | 67  | 1,062 | 0.14  | 77  | 0.00  | 39   | 591  | 544  | 500              | 2.75 | 4.0  | 0.3  | 0   |    |      | 0.7   | 1.33 | 3.3  | 193                                   | FARIA BROS DAIRIES             | TX |
| 192 WILSONVIEW N MCKAYLA-ET             | 116897978       | 3K  | F   | 1619             | 1   | 69  | 913   | 0.10  | 60  | 0.03  | 38   | 522  | 479  | 453              | 3.07 | 3.9  | 0.7  | 1   | 91 | 1.9  | 4.25  | 5.6  | 193  | WILSONVIEW DAIRY                      | OR                             |    |
| 193 SHAN-MAR LEGAL DIVINE               | 067128466       | 3K  | F   | 466              | 1   | 69  | 998   | 0.01  | 47  | 0.00  | 36   | 560  | 523  | 491              | 2.81 | 5.2  | 0.8  | 1   | 83 | 1.6  | 3.70  | 7.4  | 193  | GARDNER MARK & SHANNON                | PA                             |    |
| 194 SUNSET CANYON RENEGADE ANTHEM-ET    | 117261130       | 3K  | F   | 407              | 1   | 68  | 520   | 0.21  | 63  | 0.08  | 33   | 617  | 534  | 462              | 2.85 | 4.6  | 1.0  | 1   | 88 | 1.6  | 3.88  | 6.7  | 193  | SHOT OF NAT LLC                       | WI                             |    |
| 195 D&E LEGAL SWAN 22203                | 067422203       | 3K  | F   | 22203            | 1   | 68  | 1,033 | -0.03 | 40  | -0.03 | 32   | 542  | 526  | 511              | 2.83 | 5.7  | 1.2  | 1   | 79 | 1.6  | 4.73  | 6.3  | 193  | D & E JERSEYS                         | TX                             |    |
| 196 GR AARDEMA LEGAL 23383              | 840003004568870 | 8K  | C   | 23383            | 2   | 67  | 1,653 | -0.15 | 47  | -0.04 | 50   | 452  | 437  | 431              | 2.89 | 2.9  | -0.6 | 0   |    |      | 1.5   | 3.33 | 3.9  | 192                                   | AARDEMA DAIRY / DOUBLE A DAIRY | ID |
| 197 GR FARIA BROTHERS VALENTINO 101977  | 840003008535345 | 6K  | C   | 101977           | 1   | 69  | 1,491 | -0.10 | 49  | -0.02 | 49   | 460  | 430  | 408              | 2.86 | 2.7  | -0.7 | 0   |    |      | 1.7   | 3.38 | 6.1  | 192                                   | FARIA BROS DAIRIES             | TX |
| 198 FARIA BROTHERS PLUS 103731          | 840003009425442 | 6K  | F   | 103731           | 0   | 53  | 1,718 | -0.12 | 57  | -0.07 | 48   | 437  | 442  | 456              | 2.96 | 2.1  | 0.1  | 0   |    |      | 1.4   | 3.30 | 2.3  | 192                                   | FARIA DAIRY                    | AZ |
| 199 GR FARIA BROTHERS BLADE KAKA        | 840003008321534 | 6K  | F   | 100427           | 1   | 70  | 1,220 | -0.04 | 49  | 0.03  | 48   | 477  | 428  | 396              | 3.03 | 2.4  | 0.9  | 0   |    |      | 1.0   | 2.61 | 5.8  | 192                                   | FARIA BROS DAIRIES             | TX |
| 200 GR FARIA BROTHERS BLADE CARA        | 840003008534460 | 3K  | F   | 101092           | 1   | 55  | 911   | 0.14  | 68  | 0.08  | 48   | 611  | 512  | 428              | 2.82 | 3.6  | 0.3  | 1   | 80 | 0.6  | 0.24  | 0.7  | 192  | FARIA DAIRY                           | AZ                             |    |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      |       |      |      | Owner                                      | ST |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|------|------|--|----|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI  | GJPI |  |    |
| 201 ALL LYNNS VICTORY BRISTOL           | 117222795       | 3K  |     | 1355             | 1   | 65  | 1,607 | -0.04 | 67  | -0.05 | 47   | 490  | 485  | 488              | 2.93 | 3.2 | 0.1  | 1   | 80 | 0.6  | 0.37  | 5.0  | 192  | ALLEN, DAVID                               | WI |
| 202 BARHAMS VALENTINO PRINCESS          | 117483871       | 3K  |     | 770              | 1   | 71  | 1,520 | -0.09 | 53  | -0.03 | 47   | 482  | 457  | 434              | 2.76 | 3.0 | -0.7 | 1   | 83 | 1.5  | 3.20  | 10.5 | 192  | BARHAM BROS                                | TN |
| 203 PR FARIA BROTHERS GANNON 65772      | 84000300624223  | 6K  | F   | 65772            | 2   | 69  | 1,423 | 0.02  | 67  | -0.03 | 45   | 499  | 477  | 460              | 2.83 | 3.4 | 0.2  | 0   | 83 | 1.3  | 1.95  | 4.0  | 192  | FARIA BROS DAIRIES                         | TX |
| 204 THREE VALLEYS B RENEGADE MAID       | 117250280       | 3K  |     | 18               | 1   | 67  | 789   | 0.27  | 86  | 0.09  | 45   | 578  | 490  | 425              | 3.06 | 2.6 | -0.3 | 0   |    | 1.8  | 2.08  | 6.8  | 192  | ROOS, BRUCE                                | OR |
| 205 PR FARIA BROTHERS ARISTOCRAT 66735  | 840003007466474 | 6K  | F   | 66735            | 1   | 65  | 1,281 | 0.06  | 69  | 0.00  | 44   | 493  | 464  | 448              | 2.97 | 2.4 | 0.0  | 1   | 80 | 1.7  | 3.64  | 5.9  | 192  | FARIA BROS DAIRIES                         | TX |
| 206 PR FARIA BROTHERS RENEGADE 89082    | 840003004634721 | 6K  | F   | 89082            | 1   | 67  | 1,112 | 0.06  | 62  | 0.03  | 44   | 530  | 477  | 436              | 2.92 | 2.8 | 0.0  | 1   | 77 | 1.3  | 2.37  | 5.6  | 192  | FARIA BROS DAIRIES                         | TX |
| 207 WILSONVIEW BOOKER BAUBLE            | 117423244       | 80K | C   | 1783             | 1   | 72  | 925   | 0.05  | 51  | 0.05  | 43   | 556  | 482  | 419              | 2.83 | 3.3 | 0.3  | 1   | 84 | 1.7  | 2.08  | 8.0  | 192  | WILSONVIEW DAIRY                           | OR |
| 208 OOMSDALE CASEY CELEBRITY CLARA-ET   | 067080515       | 8K  | F   | 515              | 1   | 70  | 1,493 | -0.09 | 52  | -0.06 | 42   | 401  | 408  | 422              | 2.98 | 3.2 | -0.1 | 1   | 86 | 2.3  | 5.98  | 5.1  | 192  | OOMS, MICHAEL AREND                        | NY |
| 209 HIGHLAND PLUS A SARA                | 067222821       | 3K  |     | 2821             | 1   | 69  | 1,187 | 0.04  | 64  | 0.00  | 42   | 527  | 483  | 444              | 2.77 | 2.5 | -0.3 | 0   | 84 | 1.6  | 3.87  | 8.2  | 192  | HIGHLAND FARMS                             | ME |
| 210 JCJ MAGNUM 22712                    | 840003007771100 | 80K | F   | 22712            | 1   | 69  | 935   | 0.17  | 75  | 0.04  | 40   | 565  | 511  | 472              | 3.00 | 3.0 | 0.7  | 1   | 84 | 1.2  | 2.57  | 5.1  | 192  | INGURAN LLC DBA SEXING TECHNOLOGIES        | TX |
| 211 AHLEM LEGAL DIXIE 35905             | 069043111       | 3K  |     | 35905            | 1   | 68  | 1,187 | -0.07 | 42  | -0.02 | 39   | 466  | 444  | 431              | 2.95 | 3.7 | 0.8  | 2   | 86 | 1.9  | 4.83  | 6.9  | 192  | AHLEM, WILLIAM JR                          | CA |
| 212 CAL-MART RENEGADE AUDREY 3484       | 117164590       | 3K  |     | 3484             | 2   | 68  | 544   | 0.27  | 77  | 0.11  | 39   | 632  | 531  | 444              | 2.87 | 3.9 | 0.6  | 2   | 85 | 0.9  | 1.72  | 5.3  | 192  | MARTIN DAIRY LLC                           | OR |
| 213 ALL LYNNS IMPULS VIRTUE-ET          | 116159988       | 50K | F   | 31165            | 2   | 75  | 1,328 | -0.02 | 57  | 0.03  | 51   | 488  | 441  | 414              | 3.07 | 3.3 | -0.6 | 2   | 88 | 1.1  | 1.80  | 5.6  | 191  | D & E JERSEYS                              | TX |
| 214 CLOVER PATCH LEGAL MONEY            | 117674743       | 8K  | C   | 2086             | 1   | 69  | 1,089 | 0.02  | 54  | 0.05  | 51   | 491  | 420  | 377              | 3.17 | 2.6 | 0.5  | 0   | 81 | 1.7  | 3.24  | 7.1  | 191  | KOZAK, ALAN                                | OH |
| 215 GR FARIA BROTHERS INDICA 100295     | 840003008321402 | 6K  | F   | 100295           | 1   | 62  | 1,121 | 0.08  | 65  | 0.05  | 50   | 529  | 460  | 414              | 3.07 | 2.4 | 1.2  | 1   | 83 | 0.3  | 0.54  | 2.9  | 191  | FARIA DAIRY                                | AZ |
| 216 HEARTLAND VALENTINO ABIGAIL         | 067262455       | 6K  | F   | 136              | 0   | 65  | 1,309 | 0.04  | 66  | 0.02  | 49   | 491  | 444  | 412              | 2.97 | 2.1 | -0.5 | 0   | 86 | 1.4  | 2.68  | 7.3  | 191  | DEN-KEL JERSEYS AND AABLE RIDGE            | NY |
| 217 JER-Z-BOYZ MAGNUM 34630             | 118529176       | 8K  | F   | 34630            | 1   | 68  | 1,330 | 0.07  | 74  | 0.00  | 47   | 521  | 489  | 474              | 3.06 | 2.8 | 0.9  | 1   | 83 | 0.6  | 0.34  | 5.9  | 191  | JER-Z-BOYZ                                 | CA |
| 218 D&E HEADLINE PAT 22007              | 067422007       | 3K  |     | 22007            | 1   | 70  | 1,621 | -0.09 | 57  | -0.08 | 43   | 462  | 482  | 509              | 3.01 | 4.7 | -0.3 | 1   | 80 | 1.4  | 2.87  | 7.9  | 191  | D & E JERSEYS                              | TX |
| 219 PR FARIA BROTHERS ROCKET NOEL       | 840003003958881 | 6K  | C   | 41253            | 4   | 63  | 1,438 | -0.10 | 46  | -0.04 | 43   | 452  | 435  | 420              | 2.79 | 2.4 | 1.6  | 0   | 84 | 0.7  | 2.66  | 0.3  | 191  | FARIA BROS DAIRIES                         | TX |
| 220 CLOVER PATCH IMPULS BANGKOK         | 116200602       | 8K  | C   | 1449             | 4   | 74  | 1,078 | 0.05  | 59  | 0.03  | 43   | 537  | 487  | 452              | 2.99 | 3.4 | 0.5  | 2   | 81 | 1.1  | 2.49  | 7.5  | 191  | KOZAK, ALAN                                | OH |
| 221 DUPAT LEGAL 8706                    | 067148706       | 8K  | F   | 8706             | 1   | 69  | 1,047 | 0.04  | 53  | 0.02  | 43   | 502  | 448  | 408              | 2.95 | 2.9 | 0.3  | 1   | 75 | 1.6  | 4.16  | 6.2  | 191  | WICKSTROM JERSEY FARMS INC                 | CA |
| 222 CLOVER PATCH BOLD PLAYER            | 117676352       | 8K  | C   | 2098             | 1   | 70  | 1,162 | 0.01  | 55  | 0.01  | 42   | 523  | 486  | 462              | 2.96 | 3.7 | 0.3  | 0   | 83 | 1.3  | 2.64  | 7.8  | 191  | KOZAK, ALAN                                | OH |
| 223 SHAN-MAR LEGACY CARISSA-ET          | 067100355       | 3K  |     | 355              | 2   | 73  | 1,086 | 0.03  | 56  | 0.01  | 42   | 512  | 462  | 420              | 2.85 | 2.2 | 0.6  | 2   | 86 | 1.3  | 3.00  | 9.0  | 191  | GARDNER MARK & SHANNON                     | PA |
| 224 GR FARIA BROTHERS APPARTITION VILMA | 840003006060579 | 6K  | F   | 55941            | 2   | 69  | 754   | 0.18  | 68  | 0.08  | 42   | 584  | 497  | 425              | 2.89 | 4.0 | 0.4  | 2   | 81 | 0.4  | 2.11  | 3.7  | 191  | FARIA BROS DAIRIES                         | TX |
| 225 CAL-MART HEADLINE PAZIT 3983        | 117545388       | 3K  |     | 3983             | 1   | 69  | 1,131 | 0.00  | 52  | -0.01 | 39   | 533  | 501  | 476              | 2.88 | 4.2 | 1.0  | 1   | 73 | 1.2  | 3.00  | 6.8  | 191  | MARTIN DAIRY LLC                           | OR |
| 226 FOREST GLEN IMPULS JASMINE          | 067069956       | 6K  |     | 9956             | 4   | 72  | 707   | 0.14  | 58  | 0.07  | 38   | 567  | 493  | 435              | 2.97 | 3.6 | 1.4  | 2   | 90 | 1.3  | 2.83  | 6.2  | 191  | BANSEN, DAN K                              | OR |
| 227 PR FARIA BROTHERS MATINEE 17192     | 840003001575137 | 6K  | F   | 17192            | 3   | 58  | 1,720 | 0.05  | 88  | -0.04 | 55   | 564  | 534  | 512              | 2.82 | 2.2 | 0.6  | 0   |    | -0.7 | -3.62 | -2.2 | 190  | FARIA DAIRY                                | AZ |
| 228 GR FARIA BROTHERS SHAWNEE 65364     | 840003006263815 | 6K  | F   | 65364            | 2   | 65  | 1,713 | 0.02  | 82  | -0.03 | 55   | 467  | 447  | 443              | 3.03 | 1.6 | 0.1  | 1   | 84 | 0.6  | -0.73 | 2.8  | 190  | FARIA DAIRY                                | AZ |
| 229 DUPAT TBONE 4964                    | 067084964       | 3K  |     | 4964             | 4   | 75  | 1,320 | 0.06  | 72  | 0.03  | 54   | 455  | 400  | 370              | 3.13 | 1.3 | -1.6 | 2   | 90 | 1.5  | 2.51  | 9.8  | 190  | WICKSTROM JERSEY FARMS INC                 | CA |
| 230 SCOTCH VIEW IMPULS TRISHA           | 067162572       | 3K  |     | 2572             | 3   | 68  | 1,621 | -0.06 | 64  | -0.03 | 52   | 447  | 434  | 443              | 3.17 | 2.8 | 0.3  | 0   | 73 | 0.7  | 1.23  | 4.1  | 190  | GRAMMER JERSEY FARM LLC                    | OH |
| 231 FOREST GLEN IMPULS MARLI            | 067323390       | 3K  |     | 3390             | 2   | 69  | 1,327 | 0.06  | 70  | 0.02  | 52   | 486  | 434  | 402              | 3.04 | 2.4 | -0.6 | 1   | 77 | 1.1  | 1.64  | 5.8  | 190  | BANSEN STANLEY K & DORA H                  | OR |
| 232 WOODSTOCK PLUS BUTTON               | 117809411       | 8K  | C   | 1273             | 1   | 72  | 1,356 | -0.09 | 45  | -0.01 | 47   | 437  | 405  | 384              | 2.95 | 2.2 | 0.4  | 1   | 86 | 2.1  | 3.91  | 8.0  | 190  | WOODS, EMILY                               | OR |
| 233 SUN VALLEY JUPITER DOLLAR           | 117018125       | 3K  |     | 2448             | 2   | 68  | 774   | 0.15  | 63  | 0.09  | 46   | 569  | 476  | 406              | 3.05 | 3.1 | 0.9  | 2   | 83 | 1.0  | 1.70  | 5.6  | 190  | SUN VALLEY FARM                            | OR |
| 234 DUTCH HOLLOW VALENTINO DEMA         | 117669134       | 8K  | C   | 1375             | 1   | 71  | 1,469 | 0.02  | 71  | -0.04 | 45   | 465  | 454  | 450              | 2.93 | 2.6 | -0.5 | 1   | 80 | 1.7  | 3.08  | 8.1  | 190  | GOMES, EDDIE                               | OR |
| 235 RIVER VALLEY RENEGADE SALINA I-ET   | 117770382       | 6K  | F   | 271              | 0   | 65  | 1,058 | 0.09  | 66  | 0.02  | 41   | 539  | 494  | 461              | 2.94 | 3.3 | 0.9  | 0   |    | 1.2  | 1.76  | 6.5  | 190  | RIVER VALLEY FARM                          | IL |
| 236 AHLEM IATOLA PRINCESS 33280         | 066622713       | 3K  |     | 33280            | 2   | 72  | 841   | 0.05  | 49  | 0.01  | 34   | 529  | 478  | 430              | 2.76 | 4.1 | -0.7 | 2   | 87 | 2.0  | 6.37  | 8.8  | 190  | AHLEM, WILLIAM JR                          | CA |
| 237 STEINHAUERS RENEGADE PUMPKINPIE-ET  | 117255584       | 3K  |     | 604              | 1   | 69  | 543   | 0.22  | 66  | 0.08  | 34   | 589  | 511  | 448              | 2.95 | 3.8 | 0.8  | 1   | 86 | 1.6  | 4.21  | 7.7  | 190  | GREENE, WAYNE JR                           | WI |
| 238 TOLLENAAR RENEGADE 6929             | 840003007843949 | 3K  |     | 6929             | 0   | 62  | 500   | 0.29  | 78  | 0.09  | 34   | 599  | 518  | 455              | 3.00 | 3.7 | 0.5  | 1   | 76 | 2.0  | 3.43  | 6.2  | 190  | TOLLENAAR JERSEYS                          | CA |
| 239 RICHIES ZUMA JOLIEN                 | 117673733       | 3K  |     | 39760            | 1   | 67  | 538   | 0.13  | 47  | 0.06  | 30   | 631  | 558  | 490              | 2.75 | 5.7 | 1.0  | 1   | 83 | 1.1  | 2.71  | 6.6  | 190  | RECTOR JERSEY FARM                         | CA |
| 240 GR MS GANNON 6504 G766              | 117327490       | 8K  | F   | 7766             | 1   | 70  | 2,091 | -0.12 | 72  | -0.11 | 52   | 389  | 422  | 461              | 2.94 | 2.2 | -0.5 | 1   | 77 | 0.8  | 1.67  | 5.5  | 189  | DESERT PARK JERSEYS & MOUNTAIN SHADOW DAIR | OR |
| 241 FARIA BROTHERS PLUS 102197          | 840003008535565 | 6K  | C   | 102197           | 1   | 68  | 1,450 | -0.02 | 62  | 0.00  | 52   | 410  | 372  | 350              | 3.01 | 0.4 | -0.1 | 0   |    | 1.3  | 3.02  | 6.3  | 189  | FARIA DAIRY                                | AZ |
| 242 JER-Z-BOYZ PLUS 36307               | 118480554       | 8K  | F   | 36307            | 1   | 70  | 1,409 | -0.03 | 57  | -0.01 | 47   | 409  | 382  | 365              | 2.93 | 0.9 | -0.2 | 1   | 88 | 1.7  | 5.03  | 6.5  | 189  | JER-Z-BOYZ                                 | CA |
| 243 GR FARIA BROTHERS TBONE 44425       | 840003004195245 | 3K  |     | 44425            | 4   | 69  | 1,256 | -0.04 | 50  | 0.01  | 47   | 457  | 413  | 381              | 2.94 | 2.4 | 0.1  | 0   | 83 | 1.2  | 3.25  | 2.8  | 189  | FARIA BROS DAIRIES                         | TX |
| 244 BLUE MIST ECLIPES LEEAH             | 117919583       | 8K  | F   | 1475             | 1   | 69  | 1,188 | 0.03  | 62  | 0.02  | 46   | 492  | 438  | 398              | 2.91 | 2.4 | -0.8 | 0   | 80 | 1.5  | 3.70  | 7.2  | 189  | GOMES, EDDIE                               | OR |
| 245 GABYS NAVARA ABIGAIL                | 116836434       | 50K | F   | 1701             | 2   | 73  | 1,110 | 0.08  | 67  | 0.03  | 45   | 457  | 412  | 386              | 3.10 | 1.9 | -0.2 | 2   | 88 | 1.9  | 3.68  | 6.9  | 189  | GABY, HENRY                                | TN |
| 246 AHLEM LEGAL PANSY 35706             | 069042912       | 8K  | F   | 35706            | 1   | 71  | 1,026 | 0.10  | 66  | 0.04  | 45   | 495  | 435  | 393              | 3.01 | 2.1 | 0.4  | 1   | 76 | 1.5  | 3.11  | 8.0  | 189  | AHLEM, WILLIAM JR                          | CA |
| 247 GR MILK-N-MORE-LH LEGAL GEMMA       | 117677344       | 6K  | F   | 337              | 1   | 67  | 1,540 | -0.16 | 42  | -0.06 | 44   | 456  | 463  | 481              | 3.06 | 5.0 | 0.5  | 1   | 82 | 1.5  | 3.06  | 5.1  | 189  | HEINZ LLOYD & WUSSOW RON                   | WI |
| 248 GR FARIA BROTHERS PLUS SUAREZ       | 840003008535690 | 6K  | F   | 102322           | 1   | 67  | 1,153 | 0.08  | 67  | 0.02  | 44   | 514  | 467  | 432              | 2.94 | 2.4 | 0.1  | 0   |    | 1.1  | 2.86  | 4.5  | 189  | FARIA DAIRY                                | AZ |
| 249 GR HILMAR TBONE 19039               | 067219039       | 3K  |     | 19039            | 4   | 74  | 851   | 0.16  | 70  | 0.07  | 44   | 537  | 460  | 401              | 3.00 | 2.5 | 0.0  | 3   | 87 | 1.2  | 1.98  | 8.2  | 189  | AHLEM, CHARLES                             | CA |
| 250 D&E HEADLINE VELLO 22179            | 067422179       | 3K  |     | 22179            | 1   | 69  | 1,515 | -0.14 | 45  | -0.06 | 43   | 511  | 514  | 523              | 2.93 | 5.9 | 0.0  | 1   | 84 | 1.1  | 1.22  | 7.9  | 189  | D & E JERSEYS                              | TX |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

|      |  | ----- GPTA ----- |     |     |       |     |      |       |       |    |       |      | ----- TYPE ----- |      |     |      |     |      |    |      |     |       |      |       |                                       |    |
|------|--|------------------|-----|-----|-------|-----|------|-------|-------|----|-------|------|------------------|------|-----|------|-----|------|----|------|-----|-------|------|-------|---------------------------------------|----|
| Name | Reg #                                  | GT               | JH1 | CCN | Rec   | Rel | Milk | %F    | Fat   | %P | Prot  | CM\$ | NM\$             | FM\$ | SCS | PL   | DPR | Rec  | FS | PTAT | JUI | GFI   | GJPI | Owner | ST                                    |    |
| 251  | FOREST GLEN PLUS STACY                 | 067354362        | 8K  | C   | 4362  | 1   | 72   | 1,399 | -0.08 | 50 | -0.03 | 43   | 440              | 431  | 431 | 2.98 | 2.7 | -0.5 | 0  | 81   | 2.0 | 4.77  | 9.9  | 189   | BANSEN, DAN K                         | OR |
| 252  | GOLDEN PLAIN IMPULS LOBBY OF HLJ       | 067282059        | 3K  |     | 538   | 2   | 70   | 1,010 | 0.06  | 59 | 0.04  | 43   | 492              | 436  | 394 | 2.98 | 2.3 | 0.8  | 2  | 90   | 1.5 | 3.39  | 6.3  | 189   | D & D JERSEYS                         | WI |
| 253  | HILMAR SPARKY 28922                    | 067328922        | 6K  | F   | 28922 | 1   | 72   | 966   | 0.06  | 57 | 0.03  | 40   | 480              | 424  | 379 | 2.89 | 2.6 | -0.4 | 1  | 78   | 1.8 | 4.99  | 8.1  | 189   | AHLEM, CHARLES                        | CA |
| 254  | FARIA BROTHERS APPARITION COTA         | 840003005623248  | 3K  |     | 48435 | 2   | 70   | 828   | 0.08  | 52 | 0.04  | 38   | 590              | 520  | 457 | 2.78 | 4.7 | -0.3 | 3  | 87   | 0.6 | 2.70  | 3.6  | 189   | FARIA BROS DAIRIES                    | TX |
| 255  | CAL-MART HEADLINE CARESA 5263          | 067245263        | 6K  | F   | 5263  | 1   | 70   | 1,096 | -0.02 | 47 | -0.02 | 35   | 555              | 533  | 515 | 2.85 | 5.8 | 1.1  | 0  | 73   | 1.1 | 2.69  | 7.9  | 189   | MARTIN DAIRY LLC                      | OR |
| 256  | CLOVER PATCH BOLD PLAID                | 117674378        | 3K  |     | 2107  | 1   | 68   | 1,784 | -0.13 | 59 | -0.05 | 54   | 385              | 378  | 385 | 3.00 | 0.8 | 0.1  | 0  | 85   | 1.4 | 2.14  | 7.2  | 188   | KOZAK, ALAN                           | OH |
| 257  | CLOVER PATCH BOLD COSMIC               | 117674819        | 3K  |     | 2093  | 1   | 68   | 1,315 | 0.04  | 68 | 0.04  | 54   | 454              | 392  | 350 | 3.04 | 0.0 | 0.1  | 0  | 77   | 1.2 | 1.35  | 8.1  | 188   | KOZAK, ALAN                           | OH |
| 258  | GR WILSONVIEW DALE MOLLY-ET            | 116779427        | 3K  |     | 1506  | 3   | 67   | 1,420 | -0.07 | 52 | 0.02  | 53   | 473              | 431  | 410 | 3.12 | 3.8 | -0.3 | 2  | 86   | 0.9 | 1.85  | 3.0  | 188   | WILSONVIEW DAIRY                      | OR |
| 259  | CAL-MART BLADE FIDELIA 3877            | 117475353        | 6K  | F   | 3877  | 1   | 69   | 1,207 | 0.07  | 70 | 0.05  | 53   | 534              | 457  | 396 | 2.89 | 2.1 | 0.3  | 1  | 78   | 0.6 | -0.29 | 5.5  | 188   | MARTIN DAIRY LLC                      | OR |
| 260  | GR FARIA BROTHERS ONTIME 69439         | 840003007171557  | 6K  | C   | 69439 | 1   | 68   | 1,440 | -0.01 | 65 | 0.01  | 52   | 439              | 401  | 382 | 3.07 | 1.0 | -0.8 | 0  |      | 2.2 | 3.83  | 7.2  | 188   | FARIA DAIRY                           | AZ |
| 261  | FARIA BROTHERS MAGNUM 88395            | 840003004634034  | 6K  | F   | 88395 | 1   | 66   | 1,515 | 0.01  | 71 | -0.01 | 51   | 468              | 444  | 437 | 3.07 | 2.0 | 0.7  | 1  | 81   | 0.8 | 0.61  | 4.6  | 188   | FARIA BROS DAIRIES                    | TX |
| 262  | PR FARIA BROTHERS JEVON 89031          | 840003004634670  | 6K  | F   | 89031 | 1   | 54   | 1,749 | 0.02  | 82 | -0.06 | 50   | 498              | 497  | 500 | 2.86 | 2.6 | -0.1 | 1  | 82   | 0.4 | -0.35 | 0.2  | 188   | FARIA BROS DAIRIES                    | TX |
| 263  | PR FARIA BROTHERS ALLSTAR 60914        | 840003004414921  | 3K  |     | 60914 | 3   | 57   | 1,463 | 0.15  | 94 | -0.01 | 50   | 503              | 466  | 441 | 2.91 | 0.9 | -0.7 | 0  | 80   | 0.6 | 0.90  | -2.1 | 188   | FARIA DAIRY                           | AZ |
| 264  | GRAMMER ZIPPER TASHA                   | 067353201        | 8K  | F   | 3201  | 1   | 68   | 1,448 | -0.07 | 52 | -0.01 | 49   | 442              | 418  | 411 | 3.07 | 2.7 | 0.4  | 1  | 75   | 0.5 | 2.02  | 4.9  | 188   | GRAMMER JERSEY FARM LLC               | OH |
| 265  | VALSIGNA KILOWATT 18126                | 117727740        | 6K  | F   | 18126 | 0   | 66   | 1,178 | 0.02  | 60 | 0.03  | 47   | 508              | 451  | 407 | 2.91 | 2.6 | 0.3  | 0  | 16   | 0.8 | 1.64  | 8.2  | 188   | WICKSTROM DAIRIES, LP                 | CA |
| 266  | CAL-MART HEADLINE REBA 3910            | 117491821        | 3K  |     | 3910  | 1   | 70   | 1,432 | -0.12 | 41 | -0.05 | 42   | 469              | 473  | 489 | 3.09 | 5.2 | 1.3  | 1  | 83   | 1.1 | 2.45  | 8.1  | 188   | MARTIN DAIRY LLC                      | OR |
| 267  | CAL-MART LEGAL HELEN 5340-ET           | 067185340        | 6K  | C   | 5340  | 0   | 64   | 1,171 | -0.03 | 48 | 0.00  | 42   | 472              | 439  | 416 | 2.95 | 3.4 | 0.2  | 0  | 77   | 1.8 | 3.78  | 5.9  | 188   | MARTIN DAIRY LLC                      | OR |
| 268  | GR FARIA BROTHERS SHAWNEE TRINA        | 840003005827940  | 3K  |     | 49050 | 2   | 69   | 1,464 | -0.01 | 66 | -0.05 | 41   | 552              | 540  | 525 | 2.68 | 4.2 | 0.0  | 2  | 83   | 0.2 | -0.22 | 3.9  | 188   | FARIA BROS DAIRIES                    | TX |
| 269  | SUNSET CANYON VALENTINO L MAID-ET      | 117501331        | 3K  |     | 146   | 1   | 70   | 980   | 0.15  | 73 | 0.02  | 40   | 527              | 477  | 438 | 2.92 | 3.1 | -0.9 | 1  | 85   | 2.1 | 4.50  | 6.9  | 188   | RIVER VALLEY FARM                     | IL |
| 270  | GR FARIA BROTHERS IMPULS NASRI         | 840003007171581  | 6K  | F   | 69463 | 1   | 58   | 901   | 0.13  | 67 | 0.04  | 40   | 565              | 504  | 456 | 2.94 | 3.4 | 1.0  | 0  |      | 0.5 | 1.87  | 0.8  | 188   | FARIA DAIRY                           | AZ |
| 271  | GR FARIA BROTHERS RENEGADE 89351       | 840003004634990  | 6K  | F   | 89351 | 1   | 64   | 1,300 | 0.00  | 60 | -0.04 | 39   | 480              | 468  | 459 | 2.87 | 3.3 | -0.1 | 1  | 83   | 1.2 | 3.84  | 2.5  | 188   | FARIA BROS DAIRIES                    | TX |
| 272  | RIVER VALLEY ALLSTAR SALINA I-ET       | 117770298        | 3K  |     | 211   | 0   | 64   | 833   | 0.16  | 67 | 0.04  | 38   | 536              | 475  | 424 | 2.89 | 2.7 | 0.0  | 1  | 84   | 1.6 | 4.38  | 6.6  | 188   | RIVER VALLEY FARM                     | IL |
| 273  | ASPEN GROVE RENEGADE MAJO              | 067138335        | 3K  |     | 335   | 1   | 68   | 706   | 0.22  | 74 | 0.05  | 37   | 609              | 538  | 481 | 2.92 | 3.9 | 0.7  | 1  | 79   | 0.9 | 1.18  | 7.4  | 188   | ELLENBURG, DYLAN                      | TN |
| 274  | CAL-MART IMPULS PANYEN 2576            | 116515209        | 3K  |     | 931   | 3   | 72   | 421   | 0.24  | 63 | 0.10  | 34   | 615              | 523  | 445 | 2.92 | 4.7 | 0.8  | 2  | 85   | 1.3 | 3.10  | 5.6  | 188   | MARTIN DAIRY LLC                      | OR |
| 275  | AHLEM HEADLINE HARMONY 37641           | 070049115        | 8K  | F   | 37641 | 1   | 71   | 863   | -0.05 | 31 | -0.03 | 25   | 534              | 529  | 525 | 2.89 | 7.2 | 0.5  | 0  | 82   | 2.3 | 6.30  | 10.2 | 188   | AHLEM, WILLIAM JR                     | CA |
| 276  | PR FARIA BROTHERS STONE 64725          | 840003006263176  | 6K  | F   | 64725 | 2   | 64   | 1,990 | -0.12 | 69 | -0.05 | 62   | 394              | 377  | 375 | 2.99 | 0.4 | -0.8 | 0  | 83   | 0.2 | 0.22  | 2.9  | 187   | FARIA DAIRY                           | AZ |
| 277  | DALHART ABE 28933                      | 067328933        | 6K  | F   | 28933 | 1   | 70   | 1,363 | -0.04 | 55 | -0.01 | 46   | 487              | 453  | 425 | 2.83 | 2.9 | -0.8 | 1  | 81   | 0.8 | 2.01  | 6.2  | 187   | AHLEM, MARK                           | CA |
| 278  | GR HILMAR BENEFACTOR 25369             | 067325369        | 6K  | F   | 25369 | 2   | 74   | 1,313 | -0.07 | 47 | -0.01 | 45   | 472              | 444  | 429 | 2.98 | 3.0 | 0.0  | 1  | 86   | 2.1 | 3.40  | 7.9  | 187   | AHLEM, CHARLES                        | CA |
| 279  | GR WILSONVIEW GARDEN SOCHI-ET          | 067191494        | 3K  |     | 1494  | 2   | 67   | 1,291 | 0.04  | 66 | -0.01 | 44   | 521              | 498  | 490 | 3.06 | 4.9 | -0.1 | 2  | 90   | 1.2 | 2.11  | 2.3  | 187   | WILSONVIEW DAIRY                      | OR |
| 280  | FOREST GLEN BOLDS DOLL                 | 067323721        | 3K  |     | 3721  | 1   | 70   | 1,079 | 0.04  | 57 | 0.02  | 42   | 512              | 469  | 439 | 2.98 | 3.4 | 0.1  | 0  | 76   | 1.9 | 3.28  | 8.9  | 187   | FOREST GLEN JERSEYS                   | OR |
| 281  | GR FARIA BROTHERS LEGACY 58760         | 840003006317310  | 6K  | F   | 58760 | 2   | 71   | 1,144 | -0.02 | 48 | 0.00  | 41   | 495              | 461  | 436 | 2.92 | 3.3 | 1.6  | 2  | 84   | 0.9 | 1.84  | 5.3  | 187   | FARIA BROS DAIRIES                    | TX |
| 282  | SUNWEST ABE ARTIST H7923               | 840003001096162  | 3K  |     | 7923  | 3   | 69   | 771   | 0.15  | 64 | 0.04  | 36   | 607              | 538  | 474 | 2.75 | 4.5 | -0.1 | 2  | 87   | 0.8 | 2.24  | 5.0  | 187   | SUNWEST JERSEY DAIRY                  | CA |
| 283  | CAL-MART BLADE FAITH 3819              | 117467572        | 3K  |     | 3819  | 1   | 68   | 689   | 0.14  | 59 | 0.04  | 34   | 588              | 519  | 456 | 2.77 | 4.3 | 0.3  | 1  | 77   | 1.4 | 2.99  | 5.7  | 187   | MARTIN DAIRY LLC                      | OR |
| 284  | GR CAL-MART MILITIA JUTKA 2467         | 116383619        | 3K  |     | 1092  | 3   | 71   | 1,681 | -0.08 | 60 | -0.03 | 53   | 457              | 442  | 441 | 3.03 | 2.3 | 0.8  | 2  | 90   | 0.5 | 0.56  | 4.6  | 186   | MARTIN DAIRY LLC                      | OR |
| 285  | CANTENDO IMPULS MARYKATE               | 116246530        | 3K  |     | 612   | 3   | 71   | 1,310 | 0.01  | 64 | 0.03  | 53   | 503              | 442  | 398 | 2.96 | 2.1 | 0.4  | 3  | 85   | 0.5 | -0.28 | 5.4  | 186   | NOYES THOMAS E & FAMILY               | OH |
| 286  | FOREST GLEN IMPULS ELEPHANT            | 067282988        | 3K  |     | 2988  | 2   | 69   | 1,249 | 0.06  | 70 | 0.02  | 49   | 531              | 477  | 440 | 2.98 | 2.5 | 0.2  | 1  | 83   | 0.5 | -0.36 | 5.5  | 186   | BANSEN STANLEY K & DORA H             | OR |
| 287  | GR FARIA BROTHERS HEADLINE CORAL       | 840003008536534  | 3K  |     | 92166 | 1   | 66   | 1,455 | -0.03 | 58 | -0.03 | 46   | 452              | 439  | 438 | 3.02 | 3.0 | 0.3  | 1  | 84   | 1.2 | 2.40  | 4.4  | 186   | FARIA BROS DAIRIES                    | TX |
| 288  | SUN VALLEY TBONE JERSEE                | 117522475        | 6K  | F   | 2749  | 1   | 71   | 804   | 0.16  | 68 | 0.10  | 46   | 548              | 456  | 387 | 3.04 | 2.7 | -0.1 | 1  | 82   | 1.3 | 1.35  | 8.0  | 186   | SUN VALLEY FARM                       | OR |
| 289  | BAF TBONE OLATHE OF HLJ-ET             | 067342125        | 3K  |     | 2125  | 2   | 73   | 1,099 | 0.03  | 57 | 0.02  | 45   | 510              | 444  | 386 | 2.77 | 2.4 | -0.9 | 1  | 86   | 1.9 | 2.81  | 8.7  | 186   | HEARTLAND JERSEYS                     | KS |
| 290  | RICHIES TBONE STAR M7220               | 116863900        | 3K  |     | 50029 | 2   | 72   | 1,046 | 0.02  | 51 | 0.05  | 45   | 447              | 391  | 356 | 3.10 | 1.9 | -0.2 | 1  | 84   | 2.0 | 4.31  | 10.1 | 186   | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX |
| 291  | VALSIGNA MAGNUM 15869                  | 117291878        | 80K | F   | 15869 | 2   | 70   | 939   | 0.19  | 79 | 0.06  | 44   | 546              | 474  | 418 | 2.93 | 1.8 | 0.6  | 0  |      | 0.7 | 1.04  | 5.5  | 186   | INGURAN LLC DBA SEXING TECHNOLOGIES   | TX |
| 292  | GR OOMSDALE CASEY CELEBRITY CHEYANN-ET | 067080517        | 50K | C   | 30517 | 1   | 70   | 1,207 | 0.00  | 55 | 0.00  | 43   | 427              | 393  | 369 | 2.92 | 2.8 | -0.3 | 1  | 87   | 2.2 | 5.26  | 4.2  | 186   | D & E JERSEYS                         | TX |
| 293  | DEN-KEL JIGANTRESS-ET                  | 067100796        | 3K  |     | 796   | 1   | 69   | 1,089 | 0.03  | 56 | 0.02  | 42   | 518              | 468  | 428 | 2.88 | 3.4 | -0.4 | 1  | 88   | 1.8 | 3.23  | 6.3  | 186   | KELLER, KIP A                         | NY |
| 294  | GR CAL-MART GANNON CASSADY 2941        | 116807247        | 8K  | F   | 2941  | 3   | 71   | 1,566 | -0.12 | 49 | -0.07 | 41   | 388              | 402  | 419 | 2.90 | 2.3 | 0.6  | 2  | 90   | 1.8 | 4.86  | 4.5  | 186   | MARTIN DAIRY LLC                      | OR |
| 295  | GR BUTTERCREST DALE IRIS               | 116721880        | 8K  | C   | 385   | 2   | 73   | 1,504 | -0.12 | 44 | -0.06 | 41   | 473              | 478  | 485 | 2.85 | 4.2 | 1.5  | 2  | 82   | 0.8 | 1.44  | 6.4  | 186   | COOPERRIDER & SONS                    | OH |
| 296  | FOREST GLEN LEGAL LUCY                 | 067354184        | 8K  | C   | 4184  | 1   | 71   | 1,480 | -0.21 | 28 | -0.06 | 41   | 418              | 432  | 458 | 3.09 | 4.2 | 1.2  | 0  | 82   | 1.9 | 4.21  | 7.8  | 186   | FOREST GLEN JERSEYS                   | OR |
| 297  | SUN VALLEY VALENTINO HATTERAS          | 117680924        | 3K  |     | 2832  | 1   | 67   | 1,245 | 0.02  | 59 | -0.01 | 41   | 466              | 448  | 444 | 3.05 | 3.4 | -0.4 | 0  | 83   | 1.7 | 3.85  | 7.7  | 186   | SEALS THOMAS L & JENNIE L             | OR |
| 298  | GR HILMAR ABE 19756                    | 067219756        | 6K  | F   | 19756 | 4   | 72   | 1,171 | 0.00  | 54 | 0.00  | 41   | 529              | 485  | 442 | 2.72 | 3.5 | -0.9 | 2  | 83   | 1.0 | 2.75  | 4.2  | 186   | AHLEM, CHARLES                        | CA |
| 299  | CDF CELEBRITY MOR M29519               | 840003006207721  | 3K  |     | 29519 | 2   | 73   | 1,336 | -0.04 | 53 | -0.04 | 40   | 489              | 474  | 461 | 2.78 | 3.6 | -0.3 | 2  | 78   | 1.3 | 2.66  | 8.8  | 186   | C & S LIVESTOCK                       | CA |
| 300  | FOREST GLEN LEGAL LADY                 | 067354009        | 8K  | F   | 4009  | 1   | 68   | 1,105 | -0.04 | 43 | 0.01  | 40   | 519              | 479  | 446 | 2.86 | 4.2 | 1.0  | 1  | 79   | 1.3 | 2.92  | 6.0  | 186   | BANSEN, DAN K                         | OR |

**November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)**

| Name                                    | Reg #            | GT  | JH1 | CCN    | Rec | Rel | ----- GPTA ----- |       |     |       |      |      |      |      | ----- TYPE ----- |     |      |     |    |      |       |     | Owner | ST  |      |
|---|------------------|-----|-----|--------|-----|-----|------------------|-------|-----|-------|------|------|------|------|------------------|-----|------|-----|----|------|-------|-----|-------|---|------|
|   |                  |     |     |        |     |     | Milk             | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS              | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI |       |   | GJPI |
| 301 GR FARIA BROTHERS IMPULS ROBERTA    | 840003007172117  | 3K  |     | 69999  | 1   | 61  | 963              | 0.09  | 59  | 0.03  | 40   | 506  | 462  | 437  | 3.08             | 3.6 | 1.4  | 1   | 86 | 1.1  | 2.58  | 3.0 | 186   | FARIA DAIRY                                   | AZ   |
| 302 HIGH LAWN HEADLINE QUARTZ-ET        | 117585395        | 3K  |     | 12559  | 1   | 70  | 1,265            | -0.01 | 56  | -0.04 | 39   | 503  | 492  | 488  | 2.94             | 4.7 | -0.1 | 0   | 83 | 1.9  | 2.62  | 9.6 | 186   | HIGH LAWN FARM                                | MA   |
| 303 DP VALENTINO GWEN 1021              | 067791021        | 3K  |     | 1021   | 1   | 70  | 1,238            | -0.03 | 51  | -0.03 | 39   | 522  | 501  | 482  | 2.80             | 4.7 | -0.3 | 1   | 86 | 1.0  | 2.46  | 8.4 | 186   | DESERT PARK JERSEYS                           | OR   |
| 304 D&E ABE KIRA 21083                  | 067521083        | 3K  |     | 21083  | 4   | 74  | 1,014            | 0.07  | 60  | 0.01  | 39   | 624  | 576  | 533  | 2.80             | 5.9 | 0.8  | 3   | 81 | -0.2 | -1.81 | 7.2 | 186   | D & E JERSEYS                                 | TX   |
| 305 FARIA BROTHERS LOTTO HOPE SOLO      | 840003008534982  | 3K  |     | 101614 | 1   | 69  | 983              | 0.14  | 72  | 0.01  | 37   | 525  | 480  | 440  | 2.80             | 2.9 | -0.2 | 1   | 84 | 2.0  | 4.10  | 7.7 | 186   | FARIA DAIRY                                   | AZ   |
| 306 AHLEM LEGAL MAGGIE 35894            | 069043100        | 3K  |     | 35894  | 1   | 68  | 520              | 0.12  | 47  | 0.09  | 36   | 552  | 461  | 384  | 2.92             | 3.9 | 0.3  | 2   | 82 | 2.2  | 5.50  | 7.7 | 186   | AHLEM, WILLIAM JR                             | CA   |
| 307 BELLWOOD TAMMY-ET                   | 117226409        | 3K  |     | 8      | 1   | 67  | 1,093            | -0.02 | 46  | -0.03 | 33   | 482  | 474  | 472  | 2.93             | 4.4 | 1.0  | 2   | 83 | 1.9  | 5.21  | 6.0 | 186   | ALLEN, DAVID                                  | WI   |
| 308 CAL-MART ZUMA LUANN 5412            | 067185412        | 6K  | F   | 5412   | 0   | 59  | 470              | 0.12  | 43  | 0.08  | 32   | 601  | 519  | 448  | 2.86             | 5.2 | 1.3  | 0   | 1  | 1.0  | 2.99  | 4.5 | 186   | MARTIN DAIRY LLC                              | OR   |
| 309 BW RENEGADE KATIE ET749-ET          | 117090226        | 50K | C   | 749    | 1   | 72  | 852              | 0.10  | 56  | 0.00  | 30   | 531  | 500  | 473  | 2.83             | 4.7 | 1.5  | 0   | 90 | 1.2  | 3.53  | 5.8 | 186   | YOSEMITE JERSEYS, CLAUSS RICHARD & BARLASS BR | CA   |
| 310 PR LIVE OAK SEXTON 13412            | 116945569        | 3K  |     | 13412  | 2   | 64  | 1,915            | -0.17 | 54  | -0.07 | 56   | 411  | 412  | 427  | 3.02             | 2.3 | 0.5  | 1   | 79 | 0.4  | -0.31 | 3.9 | 185   | LIVE OAK DAIRY                                | CA   |
| 311 GR FARIA BROTHERS PLUS 103646       | 840003009425357  | 6K  | F   | 103646 | 1   | 69  | 1,548            | -0.03 | 65  | -0.03 | 49   | 429  | 417  | 420  | 3.07             | 1.1 | 0.5  | 0   |    | 1.1  | 1.83  | 5.6 | 185   | FARIA DAIRY                                   | AZ   |
| 312 WILSONVIEW IMPULS MARYANNE          | 116781435        | 8K  | F   | 1551   | 2   | 71  | 1,101            | 0.05  | 61  | 0.04  | 48   | 522  | 452  | 397  | 2.93             | 2.1 | 0.9  | 2   | 90 | 0.8  | 0.93  | 5.5 | 185   | WILSONVIEW DAIRY                              | OR   |
| 313 GR WILSONVIEW GANNON SASHAY         | 117255696        | 8K  | F   | 1644   | 1   | 69  | 1,485            | -0.05 | 59  | -0.04 | 45   | 400  | 394  | 399  | 3.01             | 2.4 | 0.1  | 1   | 84 | 1.8  | 4.01  | 5.4 | 185   | WILSONVIEW DAIRY                              | OR   |
| 314 HILMAR TBONE 19025                  | 067219025        | 3K  |     | 19025  | 4   | 74  | 1,300            | -0.01 | 58  | -0.01 | 44   | 443  | 418  | 405  | 3.00             | 2.5 | -0.1 | 3   | 85 | 1.0  | 2.94  | 8.1 | 185   | AHLEM, CHARLES                                | CA   |
| 315 GR FARIA BROTHERS RENEGADE RUSSELL  | 840003008322039  | 3K  |     | 100932 | 1   | 64  | 1,132            | 0.13  | 78  | 0.03  | 44   | 529  | 479  | 439  | 2.90             | 2.5 | -0.3 | 1   | 83 | 1.3  | 1.51  | 4.2 | 185   | FARIA DAIRY                                   | AZ   |
| 316 HILMAR TBONE 18978                  | 067218978        | 3K  |     | 18978  | 4   | 75  | 850              | 0.09  | 58  | 0.06  | 42   | 562  | 488  | 429  | 2.95             | 4.0 | 0.5  | 2   | 85 | 1.3  | 1.45  | 8.6 | 185   | AHLEM, CHARLES                                | CA   |
| 317 SUN VALLEY ECLIPES PANDA-P-ET       | 117751718        | 3K  |     | 2891   | 1   | 67  | 1,153            | 0.08  | 68  | 0.00  | 40   | 478  | 448  | 429  | 2.96             | 2.5 | -0.1 | 0   | 83 | 2.0  | 4.13  | 6.9 | 185   | SUN VALLEY FARM                               | OR   |
| 318 CAL-MART UPPERCUT GERILYN 5213      | 067245213        | 8K  | F   | 5213   | 1   | 70  | 1,029            | 0.04  | 55  | 0.03  | 40   | 499  | 455  | 425  | 2.98             | 3.4 | 0.6  | 0   | 80 | 1.5  | 2.85  | 8.8 | 185   | MARTIN DAIRY LLC                              | OR   |
| 319 GR FARIA BROTHERS ALLSTAR 102537    | 840003008535905  | 6K  | F   | 102537 | 1   | 63  | 738              | 0.25  | 79  | 0.07  | 39   | 610  | 531  | 465  | 2.90             | 3.7 | -0.3 | 0   |    | 0.9  | 1.93  | 2.7 | 185   | FARIA DAIRY                                   | AZ   |
| 320 FARIA BROTHERS LOTTO 101488         | 840003008534856  | 6K  | F   | 101488 | 1   | 69  | 1,073            | 0.14  | 76  | 0.00  | 38   | 519  | 483  | 453  | 2.85             | 2.8 | -0.3 | 0   |    | 1.2  | 3.35  | 5.9 | 185   | FARIA BROS DAIRIES                            | TX   |
| 321 BW RENEGADE TYSKA U709              | 117265947        | 50K | F   | 1076   | 1   | 70  | 998              | 0.14  | 73  | 0.01  | 38   | 499  | 462  | 438  | 3.00             | 2.8 | 0.4  | 1   | 85 | 1.8  | 3.70  | 5.9 | 185   | BRENTWOOD FARMS                               | CA   |
| 322 FARIA BROTHERS ALLSTAR 96108        | 840003008936596  | 6K  | F   | 96108  | 1   | 67  | 1,119            | 0.07  | 64  | -0.02 | 37   | 468  | 444  | 426  | 2.88             | 2.0 | -0.6 | 1   | 82 | 1.4  | 5.61  | 4.0 | 185   | FARIA BROS DAIRIES                            | TX   |
| 323 D&E KILOWATT CHERYL 22143           | 067422143        | 3K  |     | 22143  | 1   | 70  | 822              | 0.08  | 52  | 0.04  | 37   | 539  | 474  | 416  | 2.80             | 4.0 | 0.8  | 1   | 79 | 0.5  | 2.82  | 8.0 | 185   | D & E JERSEYS                                 | TX   |
| 324 VALSIGNA SPARKY 17289               | 117552672        | 3K  |     | 17289  | 1   | 70  | 982              | 0.01  | 47  | 0.01  | 36   | 497  | 457  | 424  | 2.86             | 4.0 | 0.7  | 1   | 75 | 1.0  | 4.00  | 8.2 | 185   | WICKSTROM DAIRIES, LP                         | CA   |
| 325 DUPAT MERCHANT 8267                 | 067348267        | 3K  |     | 8267   | 1   | 71  | 741              | 0.06  | 45  | 0.05  | 36   | 512  | 448  | 395  | 2.90             | 3.8 | -0.7 | 1   | 82 | 1.6  | 5.66  | 8.5 | 185   | WICKSTROM JERSEY FARMS INC                    | CA   |
| 326 WAUNAKEE LOUIE PANSY 2605           | 069074189        | 3K  |     | 2605   | 1   | 68  | 1,004            | 0.05  | 57  | -0.01 | 34   | 546  | 525  | 512  | 2.95             | 5.4 | 0.8  | 2   | 86 | 1.3  | 2.90  | 7.9 | 185   | LAUFENBERG, GERALD                            | WI   |
| 327 VICS SPARKY RUTHIE 6491             | 117452020        | 3K  |     | 6491   | 1   | 69  | 971              | 0.02  | 48  | -0.01 | 34   | 475  | 454  | 442  | 3.00             | 3.3 | 0.9  | 1   | 79 | 1.4  | 4.62  | 7.7 | 185   | FANELLI, VICTOR                               | CA   |
| 328 FARIA BROTHERS IMPULS GIGGS         | 8400030071171560 | 6K  | F   | 69442  | 1   | 64  | 1,194            | 0.09  | 75  | 0.04  | 51   | 507  | 450  | 419  | 3.16             | 2.3 | 0.6  | 1   | 82 | 0.2  | -0.55 | 3.2 | 184   | FARIA DAIRY                                   | AZ   |
| 329 HILMAR KILOWATT 32102               | 067432102        | 3K  |     | 32102  | 1   | 70  | 1,163            | 0.07  | 66  | 0.03  | 49   | 508  | 441  | 389  | 2.89             | 2.0 | 0.1  | 1   | 83 | 0.6  | 0.37  | 8.8 | 184   | LYLESTANLEY TRACE LLC                         | FL   |
| 330 PEARLMONT NASRALLAH EMMA            | 0671104356       | 3K  |     | 62     | 1   | 67  | 1,571            | 0.00  | 72  | -0.05 | 47   | 448  | 453  | 478  | 3.21             | 2.9 | 0.7  | 1   | 85 | 1.0  | 0.65  | 7.4 | 184   | CAMPBELL, DR LARRY J                          | WA   |
| 331 DUPAT LOUIE 7905                    | 067297905        | 3K  |     | 7905   | 1   | 71  | 1,478            | -0.09 | 52  | -0.03 | 47   | 471  | 448  | 431  | 2.84             | 3.1 | 0.1  | 1   | 73 | 0.7  | 0.98  | 7.0 | 184   | WICKSTROM JERSEY FARMS INC                    | CA   |
| 332 GABYS LEGAL ALLIE                   | 117369052        | 50K | C   | 24     | 1   | 72  | 1,312            | 0.03  | 67  | -0.01 | 46   | 488  | 454  | 432  | 2.95             | 2.7 | 0.1  | 1   | 76 | 1.5  | 2.07  | 6.7 | 184   | RIVER VALLEY FARM                             | IL   |
| 333 GR FARIA BROTHERS IMPULS 69881      | 840003007171999  | 6K  | F   | 69881  | 1   | 66  | 990              | 0.08  | 60  | 0.05  | 46   | 513  | 441  | 386  | 2.98             | 2.4 | -0.2 | 1   | 83 | 1.2  | 2.27  | 4.0 | 184   | FARIA DAIRY                                   | AZ   |
| 334 PR FARIA BROTHERS RENEGADE 69862    | 840003007171980  | 6K  | F   | 69862  | 1   | 63  | 1,275            | 0.02  | 62  | -0.01 | 43   | 481  | 450  | 426  | 2.88             | 2.4 | 0.7  | 1   | 83 | 1.5  | 2.22  | 3.7 | 184   | FARIA BROS DAIRIES                            | TX   |
| 335 LYON AMITY JEDDY                    | 117423927        | 6K  | F   | 4665   | 1   | 72  | 743              | 0.12  | 57  | 0.08  | 42   | 552  | 468  | 404  | 3.00             | 3.6 | 1.2  | 1   | 75 | 0.4  | 1.35  | 6.5 | 184   | LYON JERSEYS                                  | IA   |
| 336 NORSE STAR RENEGADE MARLEY          | 067223223        | 50K | C   | 3223   | 1   | 70  | 750              | 0.17  | 66  | 0.08  | 41   | 565  | 485  | 421  | 2.95             | 3.7 | 0.7  | 1   | 83 | 0.9  | 1.19  | 6.3 | 184   | HEARTLAND JERSEYS                             | KS   |
| 337 VALSIGNA KILOWATT 17405             | 117610859        | 3K  |     | 17405  | 1   | 70  | 640              | 0.25  | 77  | 0.09  | 40   | 592  | 494  | 410  | 2.84             | 2.5 | -0.1 | 1   | 73 | 0.6  | 1.43  | 8.4 | 184   | WICKSTROM DAIRIES, LP                         | CA   |
| 338 GR AHLEM GARDEN BUTTONS 31761-ET    | 066069145        | 3K  |     | 31761  | 3   | 71  | 1,231            | -0.01 | 54  | -0.02 | 39   | 497  | 480  | 471  | 2.94             | 4.7 | 0.6  | 2   | 72 | 1.1  | 2.88  | 4.6 | 184   | AHLEM, WILLIAM JR                             | CA   |
| 339 SUNSET CANYON LEGAL SAMANTHA        | 117468603        | 8K  | F   | 1977   | 1   | 69  | 1,178            | -0.04 | 47  | -0.03 | 38   | 491  | 481  | 482  | 3.05             | 4.8 | 1.3  | 1   | 85 | 1.5  | 2.82  | 6.1 | 184   | SILVA, ERIC LEONARD                           | OR   |
| 340 SUN VALLEY RENEGADE HOLLY II-ET     | 117463411        | 50K | F   | 2750   | 1   | 70  | 467              | 0.24  | 67  | 0.12  | 38   | 591  | 492  | 415  | 3.03             | 3.7 | 0.6  | 1   | 85 | 1.3  | 2.55  | 5.6 | 184   | QUIST, JIM                                    | CA   |
| 341 GR YOSEMITE MCGRAW GREATNESS N22446 | 840003006458320  | 3K  |     | 22446  | 1   | 70  | 1,334            | -0.11 | 39  | -0.05 | 37   | 494  | 497  | 502  | 2.88             | 5.2 | 0.4  | 1   | 82 | 1.6  | 3.66  | 8.4 | 184   | YOSEMITE JERSEY DAIRY                         | CA   |
| 342 AHLEM BROTHERS RENEGADE 24268       | 840003008867380  | 8K  | F   | 24268  | 1   | 71  | 889              | 0.10  | 59  | 0.03  | 37   | 506  | 458  | 421  | 2.95             | 3.4 | 0.5  | 1   | 80 | 1.6  | 3.56  | 7.7 | 184   | HEINZ, LLOYD                                  | WI   |
| 343 GR CHAPMANS DALE PENNY              | 117093078        | 8K  | F   | 756    | 2   | 71  | 1,112            | 0.05  | 60  | -0.03 | 34   | 456  | 449  | 450  | 2.99             | 3.6 | 0.9  | 2   | 90 | 2.0  | 5.41  | 6.3 | 184   | CHAPMAN, DAVID GARRISON                       | NC   |
| 344 SPRING CREEK ALLSTAR SPIRT          | 067124535        | 8K  | F   | 1334   | 1   | 66  | 448              | 0.35  | 87  | 0.08  | 31   | 632  | 552  | 481  | 2.85             | 3.8 | 0.2  | 1   | 80 | 1.1  | 2.94  | 5.1 | 184   | SPRING CREEK FARMS                            | WI   |
| 345 GR SHAN-MAR DALE CHEDDAR            | 067100369        | 3K  |     | 369    | 2   | 71  | 2,027            | -0.24 | 46  | -0.08 | 56   | 429  | 438  | 455  | 2.91             | 3.0 | -0.4 | 2   | 83 | 0.6  | -0.28 | 6.3 | 183   | GARDNER MARK & SHANNON                        | PA   |
| 346 GR NORMANDELL DALE DUTCHESS         | 067066965        | 8K  | F   | 965    | 2   | 71  | 2,057            | -0.18 | 61  | -0.10 | 54   | 412  | 441  | 480  | 3.06             | 3.3 | -1.0 | 4   | 86 | 0.7  | 0.20  | 4.6 | 183   | NORMANDELL FARMS                              | PA   |
| 347 HILMAR SPIKE 26812                  | 067326812        | 6K  | F   | 26812  | 2   | 74  | 1,552            | -0.13 | 48  | -0.02 | 51   | 394  | 369  | 357  | 2.98             | 1.1 | -0.9 | 2   | 70 | 2.0  | 3.48  | 9.7 | 183   | AHLEM, CHARLES                                | CA   |
| 348 CAL-MART BLADE PRISY 3899           | 117481459        | 3K  |     | 3899   | 1   | 64  | 1,296            | 0.02  | 64  | 0.01  | 48   | 512  | 463  | 426  | 2.89             | 3.1 | 0.1  | 1   | 82 | 0.5  | 0.06  | 3.3 | 183   | MARTIN DAIRY LLC                              | OR   |
| 349 HILLVIEW HEADLINE KEYLIME-P         | 067203177        | 3K  |     | 3177   | 1   | 70  | 2,060            | -0.22 | 51  | -0.14 | 47   | 401  | 455  | 512  | 2.99             | 4.0 | -0.3 | 1   | 84 | 1.0  | 0.60  | 8.7 | 183   | SORENSEN CHRIS & CHERYL                       | WI   |
| 350 GR CINNAMON RIDGE GARDEN LYDIA      | 116515496        | 8K  | F   | 774    | 3   | 66  | 1,329            | -0.10 | 45  | -0.01 | 47   | 511  | 478  | 458  | 2.98             | 5.1 | 0.7  | 2   | 82 | 0.3  | -0.06 | 2.2 | 183   | MAXWELL AMY & KARA                            | IA   |

# November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      | Owner | ST   |     |                                     |      |
|---|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|------|-----|-------------------------------------|------|
|   |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                                 | GJPI |
| 351 CAL-MART IMPULS BROOKE 9515         | 115462629       | 3K  |     | 28    | 4   | 72  | 1,342 | -0.08 | 46  | -0.01 | 46   | 503  | 473  | 452  | 2.93 | 4.2  | 0.3  | 2   | 88 | 0.9  | 1.12  | 6.2  | 183 | MARTIN DAIRY LLC                    | OR   |
| 352 GR BUTTERCREST DALE GODDESS-ET      | 116914343       | 3K  |     | 405   | 2   | 71  | 1,688 | -0.19 | 40  | -0.07 | 45   | 425  | 437  | 455  | 2.93 | 3.5  | 0.9  | 2   | 85 | 0.8  | 2.11  | 5.8  | 183 | BUTTERCREST JERSEYS                 | OH   |
| 353 PR VALSIGNA KILOWATT 17757          | 117724381       | 3K  |     | 17757 | 1   | 63  | 1,322 | -0.11 | 42  | -0.02 | 43   | 484  | 457  | 434  | 2.81 | 4.0  | 0.4  | 0   | 69 | 0.0  | 1.56  | 4.4  | 183 | WICKSTROM DAIRIES, LP               | CA   |
| 354 D&E PAPPY DOLLY 2182                | 067272182       | 8K  | F   | 2182  | 3   | 75  | 904   | 0.09  | 60  | 0.05  | 43   | 444  | 377  | 327  | 3.00 | 0.8  | 0.5  | 2   | 88 | 1.6  | 4.22  | 8.1  | 183 | D & E JERSEYS                       | TX   |
| 355 PR FARIA BROTHERS RENEGADE 89888    | 840003004635527 | 6K  | F   | 89888 | 1   | 65  | 1,078 | 0.05  | 60  | 0.03  | 42   | 525  | 479  | 447  | 2.98 | 3.7  | 0.7  | 0   |    | 0.7  | 0.94  | 5.0  | 183 | FARIA BROS DAIRIES                  | TX   |
| 356 BW RENEGADE SALLY U572              | 117208265       | 3K  |     | 209   | 1   | 69  | 916   | 0.20  | 78  | 0.04  | 41   | 543  | 479  | 428  | 2.89 | 2.7  | -0.3 | 1   | 81 | 1.3  | 2.08  | 6.6  | 183 | RIVER VALLEY FARM                   | IL   |
| 357 DUTCH HOLLOW RENEGADE CHANTEL-ET    | 067184446       | 3K  |     | 4446  | 1   | 70  | 1,001 | 0.09  | 62  | 0.03  | 39   | 532  | 483  | 440  | 2.84 | 3.4  | 0.8  | 1   | 78 | 1.5  | 1.87  | 7.4  | 183 | CHITTENDEN, PAUL C                  | NY   |
| 358 ALL LYNNS VALENTINO WIXEN-ET        | 117422869       | 3K  |     | 1418  | 1   | 68  | 1,022 | -0.05 | 37  | 0.01  | 38   | 505  | 459  | 417  | 2.78 | 4.6  | -0.9 | 1   | 82 | 2.0  | 4.91  | 6.9  | 183 | ALLEN, TOMMY                        | WI   |
| 359 CAL-MART UPPERCUT HONEY 5203-ET     | 067245203       | 6K  | F   | 5203  | 1   | 70  | 781   | 0.06  | 47  | 0.05  | 37   | 541  | 484  | 440  | 2.98 | 4.5  | 1.4  | 0   | 83 | 1.0  | 2.09  | 6.2  | 183 | MARTIN DAIRY LLC                    | OR   |
| 360 VALSIGNA SPARKY 17233               | 117552122       | 3K  |     | 17233 | 1   | 70  | 723   | 0.11  | 54  | 0.05  | 36   | 518  | 447  | 383  | 2.79 | 3.2  | -1.0 | 1   | 73 | 1.5  | 5.11  | 9.3  | 183 | WICKSTROM DAIRIES, LP               | CA   |
| 361 AHLEM LEGAL GENEVEVE 37982          | 070049456       | 8K  | C   | 37982 | 0   | 65  | 858   | 0.00  | 41  | 0.00  | 31   | 507  | 471  | 439  | 2.82 | 4.2  | 0.8  | 0   | 77 | 1.9  | 5.88  | 7.8  | 183 | AHLEM, WILLIAM JR                   | CA   |
| 362 PRAIRIE HARBOUR ACADEMY MONIQUE-ET  | 067381013       | 3K  |     | 1993  | 1   | 68  | 977   | -0.02 | 40  | -0.02 | 29   | 490  | 482  | 477  | 2.88 | 5.7  | 1.0  | 0   |    | 1.8  | 5.59  | 7.4  | 183 | THE BLACKBERRY 3                    | OH   |
| 363 PR FARIA BROTHERS REBEL 42117       | 840003001853091 | 6K  | F   | 42117 | 3   | 59  | 2,330 | -0.16 | 75  | -0.11 | 61   | 358  | 386  | 421  | 2.94 | 0.7  | -1.6 | 0   | 84 | 0.2  | -0.14 | -1.2 | 182 | FARIA BROS DAIRIES                  | TX   |
| 364 VALSIGNA SPARKY 17376               | 117553525       | 3K  |     | 17376 | 1   | 69  | 1,357 | -0.04 | 55  | -0.01 | 46   | 413  | 391  | 386  | 3.08 | 2.4  | 0.4  | 0   |    | 0.7  | 2.36  | 7.4  | 182 | WICKSTROM DAIRIES, LP               | CA   |
| 365 SPRING CREEK IMPULS IMOGENE-ET      | 067070442       | 3K  |     | 1232  | 3   | 71  | 1,094 | 0.11  | 70  | 0.04  | 46   | 487  | 429  | 388  | 3.02 | 2.0  | -0.6 | 2   | 90 | 1.9  | 2.86  | 6.9  | 182 | SPRING CREEK FARMS                  | WI   |
| 366 ALL LYNNS VICTORY DALLAS            | 117272585       | 3K  |     | 90019 | 1   | 67  | 1,205 | 0.12  | 78  | 0.01  | 44   | 522  | 485  | 460  | 2.95 | 3.1  | -0.6 | 1   | 76 | 0.7  | 0.58  | 5.0  | 182 | AVILA, SIDNEY J                     | TX   |
| 367 SUNSET CANYON REN DAHLIA 939-ET     | 117270266       | 50K | F   | 1939  | 1   | 71  | 1,199 | 0.09  | 72  | 0.01  | 44   | 523  | 481  | 451  | 2.92 | 3.0  | -0.3 | 1   | 84 | 1.0  | 0.80  | 6.5  | 182 | RIVER VALLEY FARM                   | IL   |
| 368 BLUE MIST VALENTINO MADDY-2-ET      | 117699939       | 8K  | F   | 1440  | 1   | 71  | 1,489 | -0.06 | 58  | -0.05 | 43   | 435  | 434  | 441  | 2.97 | 3.1  | -1.1 | 0   | 81 | 1.2  | 3.77  | 7.1  | 182 | GOMES, EDDIE                        | OR   |
| 369 AVI-LANCHE LEGAL OCTOBER 22205      | 067422205       | 3K  |     | 2205  | 1   | 65  | 1,217 | 0.00  | 55  | 0.00  | 42   | 485  | 454  | 434  | 2.94 | 3.9  | -0.2 | 1   | 82 | 1.5  | 3.26  | 6.3  | 182 | AVILA RICHARD & JENNIFER M          | TX   |
| 370 CLOVER PATCH BOLD DUET              | 117676428       | 8K  | C   | 2105  | 1   | 70  | 1,273 | 0.08  | 73  | -0.02 | 41   | 462  | 438  | 420  | 2.87 | 1.6  | -0.6 | 0   | 81 | 1.7  | 3.80  | 7.2  | 182 | KOZAK, ALAN                         | OH   |
| 371 OOMSDALE VALENTINO AUBURN ANIECE-ET | 067138557       | 3K  |     | 557   | 1   | 70  | 1,157 | 0.02  | 57  | 0.00  | 41   | 468  | 434  | 408  | 2.90 | 2.9  | -0.7 | 1   | 85 | 2.1  | 4.01  | 8.0  | 182 | OOMSDALE FARM                       | NY   |
| 372 D&E RENEGADE ALISSA 4399            | 067334399       | 3K  |     | 4399  | 1   | 67  | 1,017 | 0.21  | 86  | 0.03  | 41   | 559  | 511  | 476  | 2.95 | 3.1  | -0.2 | 1   | 82 | 1.2  | 0.40  | 5.9  | 182 | AVILA RICHARD & JENNIFER M          | TX   |
| 373 DUPAT VIBRANT 8698                  | 067148698       | 8K  | F   | 8698  | 1   | 71  | 1,503 | -0.16 | 38  | -0.07 | 40   | 512  | 509  | 498  | 2.61 | 5.0  | -0.6 | 0   | 73 | 0.6  | 0.76  | 7.1  | 182 | WICKSTROM JERSEY FARMS INC          | CA   |
| 374 PR JARS OF CLAY VERMEER SUNNY       | 067333142       | 3K  |     | 3142  | 1   | 66  | 1,138 | 0.13  | 76  | 0.00  | 40   | 569  | 534  | 505  | 2.85 | 4.2  | 0.9  | 1   | 78 | 0.1  | -1.10 | 4.2  | 182 | QUIST, JIM                          | CA   |
| 375 KUTZ KANOO 5617                     | 840003000988279 | 3K  |     | 5617  | 5   | 74  | 747   | 0.07  | 49  | 0.08  | 40   | 533  | 462  | 414  | 3.11 | 4.5  | 1.2  | 2   | 84 | 0.5  | 1.64  | 4.7  | 182 | KUTZ DAIRY LLC                      | WI   |
| 376 DUTCH HOLLOW RENEGADE DILL          | 067184612       | 8K  | F   | 4612  | 0   | 66  | 1,108 | 0.15  | 81  | 0.00  | 39   | 510  | 476  | 448  | 2.87 | 2.1  | 0.5  | 0   | 80 | 1.5  | 1.91  | 7.5  | 182 | DUTCH HOLLOW FARM                   | NY   |
| 377 DP IMPULS TRIS 8622                 | 114324676       | 3K  |     | 8622  | 5   | 74  | 967   | 0.02  | 48  | 0.02  | 38   | 530  | 484  | 448  | 2.92 | 4.4  | 0.3  | 2   | 88 | 1.0  | 2.46  | 7.3  | 182 | DESERT PARK JERSEYS                 | OR   |
| 378 PIEDMONT IMPULS LINDA               | 116206998       | 8K  | F   | 1524  | 3   | 73  | 786   | 0.01  | 38  | 0.05  | 38   | 509  | 445  | 394  | 2.93 | 3.9  | 0.6  | 2   | 88 | 1.4  | 4.50  | 5.2  | 182 | LUTZ, COREY ALAN                    | NC   |
| 379 TOLLENAAR RENEGADE 7106             | 840003007844126 | 3K  |     | 7106  | 0   | 57  | 760   | 0.24  | 81  | 0.06  | 38   | 594  | 521  | 458  | 2.84 | 3.3  | 0.7  | 1   | 80 | 1.1  | 0.91  | 4.9  | 182 | TOLLENAAR JERSEYS                   | CA   |
| 380 MULTI-ROSE VALENTINO 3830           | 840003004599414 | 3K  |     | 3830  | 0   | 63  | 1,183 | 0.00  | 55  | -0.03 | 36   | 480  | 468  | 460  | 2.89 | 4.0  | -0.1 | 0   | 84 | 1.8  | 3.86  | 7.0  | 182 | MULTI ROSE JERSEYS INC              | IA   |
| 381 TOLLENAAR RENEGADE 7069             | 840003007844089 | 3K  |     | 7069  | 0   | 61  | 742   | 0.19  | 70  | 0.05  | 36   | 605  | 537  | 477  | 2.83 | 4.4  | 1.2  | 1   | 80 | 0.9  | 0.48  | 6.0  | 182 | TOLLENAAR JERSEYS                   | CA   |
| 382 PR VALSIGNA SPARKY 18145            | 117729911       | 6K  | F   | 18145 | 0   | 63  | 936   | 0.00  | 43  | 0.00  | 32   | 426  | 410  | 406  | 3.06 | 3.4  | 0.9  | 0   | 82 | 1.9  | 5.98  | 9.3  | 182 | WICKSTROM DAIRIES, LP               | CA   |
| 383 D&E LEGAL HOOPS 22202               | 067422202       | 3K  |     | 22202 | 1   | 70  | 830   | 0.03  | 43  | 0.00  | 30   | 518  | 487  | 463  | 2.91 | 4.9  | 0.7  | 1   | 83 | 2.0  | 5.61  | 8.0  | 182 | SHERMAN, ELSA                       | CA   |
| 384 AHLEM ACE ELLY 33556                | 066622989       | 8K  | C   | 33556 | 2   | 74  | 990   | -0.10 | 28  | -0.04 | 27   | 391  | 399  | 412  | 2.98 | 4.1  | 1.4  | 4   | 90 | 2.0  | 8.09  | 7.8  | 182 | AHLEM, WILLIAM JR                   | CA   |
| 385 O.F. CAMPBELL KASSANDRA             | 067126354       | 3K  |     | 6354  | 4   | 72  | 955   | -0.01 | 42  | -0.03 | 27   | 530  | 513  | 488  | 2.63 | 5.3  | 0.0  | 2   | 90 | 1.8  | 5.46  | 6.5  | 182 | OWENS FARMS INC                     | WI   |
| 386 AHLEM LEGAL SWAN 37438              | 070048912       | 8K  | F   | 37438 | 1   | 70  | 836   | -0.11 | 17  | -0.02 | 25   | 495  | 481  | 466  | 2.79 | 5.7  | 1.1  | 0   | 85 | 2.4  | 6.96  | 7.8  | 182 | AHLEM, WILLIAM JR                   | CA   |
| 387 PR FARIA BROTHERS SHAWNEE 63830     | 840003005642927 | 6K  | F   | 63830 | 3   | 68  | 2,126 | -0.10 | 77  | -0.09 | 59   | 353  | 365  | 389  | 2.99 | -0.8 | -0.3 | 2   | 86 | 0.5  | -0.49 | 3.5  | 181 | FARIA DAIRY                         | AZ   |
| 388 HILMAR BENEFACOR 25686              | 067325686       | 3K  |     | 25686 | 2   | 72  | 1,776 | -0.10 | 63  | -0.07 | 50   | 418  | 423  | 435  | 2.92 | 1.4  | -0.9 | 3   | 87 | 1.5  | 1.29  | 8.8  | 181 | AHLEM, CHARLES                      | CA   |
| 389 CINNAMON RIDGE ABE BRIGITTA         | 117634987       | 8K  | F   | 878   | 0   | 61  | 1,308 | 0.00  | 61  | 0.01  | 49   | 495  | 441  | 397  | 2.82 | 2.5  | -0.3 | 0   | 76 | 0.3  | 0.04  | 5.3  | 181 | MAXWELL AMY & KARA                  | IA   |
| 390 D&E VALENTINO 4012                  | 067334012       | 3K  |     | 4012  | 1   | 71  | 1,597 | -0.17 | 42  | -0.05 | 48   | 394  | 391  | 400  | 3.03 | 3.0  | -0.4 | 1   | 78 | 1.5  | 2.66  | 8.4  | 181 | D & E JERSEYS                       | TX   |
| 391 AHLEM COUNTRY WYNOLA 16456          | 067066456       | 3K  |     | 16456 | 5   | 74  | 1,513 | -0.12 | 47  | -0.05 | 45   | 470  | 459  | 452  | 2.86 | 3.5  | 0.3  | 2   | 86 | 1.4  | 0.92  | 7.7  | 181 | AHLEM, WILLIAM JR                   | CA   |
| 392 VAN DELL LOUIE 872                  | 067066872       | 3K  |     | 872   | 1   | 68  | 1,466 | -0.06 | 55  | -0.04 | 45   | 464  | 450  | 442  | 2.89 | 3.4  | 0.3  | 1   | 83 | 0.8  | 1.57  | 6.4  | 181 | VANDELL FARMS INC                   | WI   |
| 393 FOREST GLEN IMPULS JOANNA           | 067282913       | 3K  |     | 2913  | 2   | 68  | 1,074 | 0.09  | 66  | 0.04  | 45   | 506  | 452  | 418  | 3.08 | 2.7  | 0.6  | 2   | 81 | 1.0  | 0.95  | 5.0  | 181 | BANSEN STANLEY K & DORA H           | OR   |
| 394 PR FARIA BROTHERS VERMEER 57988     | 840003011610634 | 6K  | F   | 57988 | 2   | 57  | 1,147 | 0.15  | 80  | 0.02  | 44   | 541  | 501  | 479  | 3.07 | 3.3  | 0.8  | 1   | 76 | 0.6  | 0.11  | 0.3  | 181 | FARIA BROS DAIRIES                  | TX   |
| 395 DUTCH HOLLOW LEGAL DOTTIE           | 067184603       | 8K  | F   | 4603  | 0   | 65  | 1,227 | -0.11 | 37  | 0.00  | 43   | 447  | 410  | 381  | 2.87 | 3.4  | 0.1  | 0   | 72 | 2.0  | 4.28  | 6.9  | 181 | CHITTENDEN, ZACHARY S               | NY   |
| 396 TOLLENAAR VIBRANT 7282              | 840003007844302 | 3K  |     | 7282  | 0   | 60  | 1,237 | 0.01  | 58  | -0.01 | 42   | 523  | 494  | 475  | 2.93 | 4.3  | 0.1  | 0   |    | 0.3  | 0.06  | 5.8  | 181 | TOLLENAAR JERSEYS                   | CA   |
| 397 AHLEM BROTHERS MAGNUM 22849         | 840003007770963 | 80K | F   | 22849 | 1   | 71  | 1,153 | -0.01 | 52  | 0.01  | 42   | 467  | 433  | 413  | 3.02 | 2.4  | 0.6  | 1   | 81 | 1.1  | 3.03  | 7.1  | 181 | INGURAN LLC DBA SEXING TECHNOLOGIES | TX   |
| 398 VALSIGNA SPARKY 17602               | 117612703       | 3K  |     | 17602 | 1   | 70  | 1,367 | -0.09 | 46  | -0.05 | 41   | 427  | 420  | 420  | 2.94 | 2.8  | -0.4 | 1   | 71 | 0.9  | 3.16  | 9.0  | 181 | WICKSTROM DAIRIES, LP               | CA   |
| 399 HEARTLAND VALENTINO EVA-ET          | 067232228       | 50K | C   | 2228  | 0   | 66  | 1,217 | -0.06 | 45  | -0.01 | 41   | 457  | 432  | 418  | 2.98 | 3.5  | 0.1  | 1   | 82 | 1.6  | 3.89  | 7.0  | 181 | MULTI ROSE JERSEYS INC              | IA   |
| 400 CAL-MART LOTTO SUNEE 3408           | 117106143       | 3K  |     | 3408  | 2   | 70  | 1,032 | 0.18  | 82  | 0.00  | 38   | 593  | 551  | 514  | 2.82 | 4.3  | 0.7  | 1   | 78 | 0.6  | -0.21 | 6.9  | 181 | MARTIN DAIRY LLC                    | OR   |



### November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #           | GT  | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |                            |      |
|--|-----------------|-----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|----------------------------|------|
|  |                 |     |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                        | GJPI |
| 401 OOMSDALE LOUIE GARYN GAVRIELLE-ET  | 067138525       | 3K  |     | 525    | 1   | 68  | 1,140 | 0.05  | 61  | -0.02 | 36   | 460  | 446  | 440  | 2.95 | 3.2  | 0.5  | 1   | 84 | 1.6  | 4.78  | 4.5   | 181 | OOMS, MICHAEL AREND        | NY   |
| 402 AHLEM LEGAL LEA 36159              | 070047633       | 3K  |     | 36159  | 1   | 70  | 1,003 | 0.03  | 50  | 0.00  | 36   | 452  | 423  | 402  | 2.94 | 2.9  | 0.2  | 1   | 81 | 2.4  | 6.18  | 8.6   | 181 | AHLEM, WILLIAM JR          | CA   |
| 403 DEN-KEL JOAN-ET                    | 067100758       | 3K  |     | 758    | 1   | 70  | 950   | -0.06 | 31  | 0.01  | 35   | 524  | 484  | 448  | 2.82 | 6.1  | -0.6 | 1   | 90 | 1.5  | 4.43  | 7.0   | 181 | BK/DK SYNDICATE            | NY   |
| 404 CAL-MART HEADLINE FABIA 5046       | 067125046       | 3K  |     | 5046   | 1   | 69  | 1,134 | -0.05 | 43  | -0.04 | 34   | 520  | 503  | 485  | 2.76 | 5.2  | 0.8  | 0   | 76 | 1.1  | 2.46  | 6.7   | 181 | MARTIN DAIRY LLC           | OR   |
| 405 PR FARIA BROTHERS JUAN 61252       | 840003004415259 | 6K  | F   | 61252  | 3   | 58  | 2,122 | -0.18 | 60  | -0.09 | 56   | 346  | 369  | 402  | 2.98 | 1.3  | -1.0 | 0   | 87 | 0.8  | 1.58  | -2.4  | 180 | FARIA DAIRY                | AZ   |
| 406 FOREST GLEN PLUS MAGNET            | 067282835       | 8K  | C   | 2835   | 2   | 74  | 1,530 | -0.06 | 59  | 0.00  | 55   | 377  | 342  | 328  | 3.11 | -0.1 | -0.5 | 1   | 60 | 1.2  | 2.40  | 7.6   | 180 | BANSEN STANLEY K & DORA H  | OR   |
| 407 PR FARIA BROTHERS MATINEE 19208    | 840003001577153 | 3K  |     | 19208  | 4   | 71  | 1,528 | 0.08  | 86  | -0.01 | 53   | 470  | 434  | 413  | 2.97 | 0.4  | 0.4  | 0   | 80 | 0.7  | -0.95 | 5.9   | 180 | FARIA DAIRY                | AZ   |
| 408 CAL-MART VIBRANT BLANCH 3772-ET    | 117427873       | 3K  |     | 3772   | 1   | 70  | 1,597 | -0.07 | 58  | -0.03 | 52   | 451  | 422  | 404  | 2.91 | 2.6  | -1.1 | 1   | 60 | 0.3  | -0.07 | 8.0   | 180 | MARTIN DAIRY LLC           | OR   |
| 409 PR FARIA BROTHERS SHAWNEE 63402    | 840003005642499 | 6K  | F   | 63402  | 2   | 70  | 1,877 | -0.12 | 63  | -0.08 | 51   | 412  | 419  | 430  | 2.86 | 1.2  | -0.1 | 0   | 87 | 0.6  | -0.49 | 5.7   | 180 | FARIA DAIRY                | AZ   |
| 410 WILSONVIEW NAVARRA MOMENT-ET       | 117257335       | 3K  |     | 1668   | 2   | 71  | 1,337 | 0.07  | 75  | -0.01 | 45   | 435  | 417  | 419  | 3.17 | 1.6  | 0.4  | 1   | 91 | 1.7  | 1.83  | 6.3   | 180 | WILSONVIEW DAIRY           | OR   |
| 411 GR FARIA BROTHERS RENEGADE SILVA   | 840003008321874 | 6K  | F   | 100767 | 1   | 69  | 1,081 | 0.13  | 75  | 0.03  | 45   | 508  | 453  | 417  | 3.05 | 2.3  | -0.2 | 1   | 85 | 1.4  | 1.41  | 7.9   | 180 | FARIA BROS DAIRIES         | TX   |
| 412 FOREST GLEN IMPULS BILLY           | 067282606       | 3K  |     | 2606   | 1   | 67  | 869   | 0.10  | 60  | 0.08  | 45   | 537  | 460  | 406  | 3.09 | 3.4  | 0.8  | 0   | 72 | 0.4  | 0.28  | 5.3   | 180 | BANSEN STANLEY K & DORA H  | OR   |
| 413 PR FARIA BROTHERS MAXIMUM 60818    | 840003004414825 | 6K  | F   | 60818  | 3   | 58  | 1,112 | 0.06  | 61  | 0.01  | 42   | 553  | 494  | 434  | 2.63 | 2.5  | 0.4  | 0   | 84 | 0.4  | 0.75  | 0.5   | 180 | FARIA DAIRY                | AZ   |
| 414 AHLEM LEGAL ROSE 35800             | 069043006       | 8K  | F   | 35800  | 1   | 71  | 1,096 | 0.03  | 56  | 0.01  | 42   | 485  | 441  | 408  | 2.93 | 3.0  | 0.1  | 1   | 77 | 1.6  | 2.89  | 7.9   | 180 | AHLEM, WILLIAM JR          | CA   |
| 415 BW T-BONE ALFREDA S536             | 116493204       | 6K  | F   | 1656   | 3   | 76  | 770   | 0.08  | 50  | 0.08  | 42   | 476  | 395  | 335  | 3.02 | 2.8  | -0.1 | 2   | 91 | 2.2  | 4.22  | 9.7   | 180 | BRENTWOOD FARMS            | CA   |
| 416 DUTCH HOLLOW RENEGADE CHALINA-ET   | 067184441       | 3K  |     | 4441   | 1   | 70  | 901   | 0.12  | 63  | 0.04  | 40   | 548  | 482  | 426  | 2.83 | 3.2  | 0.6  | 1   | 85 | 1.1  | 1.65  | 6.5   | 180 | CHITTENDEN, PAUL C         | NY   |
| 417 GR FARIA BROTHERS RENEGADE 89113   | 840003004634752 | 6K  | F   | 89113  | 1   | 65  | 820   | 0.24  | 85  | 0.06  | 40   | 558  | 493  | 445  | 3.02 | 3.1  | 0.7  | 0   |    | 1.3  | 0.74  | 3.1   | 180 | FARIA BROS DAIRIES         | TX   |
| 418 TOLLENAAR LOTTO 6674C92-ET         | 840003007398752 | 3K  |     | 6674   | 1   | 69  | 1,010 | 0.14  | 73  | 0.00  | 37   | 559  | 520  | 488  | 2.85 | 4.2  | 0.6  | 1   | 77 | 0.9  | 0.87  | 9.2   | 180 | TOLLENAAR JERSEYS          | CA   |
| 419 CAL-MART BONAR MERI 5133           | 067385133       | 6K  | F   | 5133   | 1   | 69  | 947   | 0.12  | 67  | 0.02  | 37   | 519  | 479  | 451  | 2.99 | 3.4  | 0.9  | 0   | 81 | 1.1  | 2.24  | 5.9   | 180 | MARTIN DAIRY LLC           | OR   |
| 420 AHLEM IMAGE SUZET 35497            | 069042703       | 8K  | C   | 35497  | 1   | 70  | 872   | 0.03  | 45  | 0.02  | 37   | 451  | 404  | 371  | 2.99 | 2.8  | 0.2  | 1   | 77 | 1.6  | 5.35  | 7.1   | 180 | AHLEM, WILLIAM JR          | CA   |
| 421 GR BUTTERCREST DALE GRANDEUR-ET    | 116808136       | 3K  |     | 394    | 2   | 71  | 1,180 | -0.05 | 43  | -0.04 | 35   | 494  | 490  | 494  | 2.99 | 5.4  | 1.4  | 2   | 83 | 1.1  | 2.32  | 5.4   | 180 | BUTTERCREST JERSEYS        | OH   |
| 422 AHLEM IATOLA HOLLY 32064           | 066621497       | 8K  | F   | 32064  | 3   | 75  | 690   | 0.08  | 45  | 0.05  | 35   | 483  | 422  | 375  | 2.98 | 2.9  | 0.6  | 2   | 76 | 1.8  | 4.95  | 8.6   | 180 | AHLEM, WILLIAM JR          | CA   |
| 423 TOLLENAAR HISTORY 5903             | 840003005646697 | 3K  |     | 5903   | 1   | 62  | 454   | 0.27  | 71  | 0.10  | 35   | 602  | 512  | 439  | 2.98 | 4.0  | 1.2  | 2   | 82 | 0.6  | 1.53  | 4.3   | 180 | TOLLENAAR JERSEYS          | CA   |
| 424 FOREST GLEN LEGALS GOLDEN EGG      | 067354464       | 8K  | C   | 4464   | 1   | 69  | 940   | 0.02  | 47  | 0.00  | 33   | 472  | 446  | 427  | 2.91 | 3.5  | 1.2  | 0   | 83 | 1.6  | 4.82  | 5.8   | 180 | BANSEN STANLEY K & DORA H  | OR   |
| 425 AHLEM LEGAL ROSETTE 36106          | 070047580       | 3K  |     | 36106  | 1   | 68  | 1,015 | -0.04 | 39  | -0.04 | 30   | 491  | 479  | 467  | 2.83 | 4.8  | 0.7  | 1   | 79 | 1.8  | 5.82  | 7.0   | 180 | AHLEM, WILLIAM JR          | CA   |
| 426 CAL-MART ZUMA GERI 5285            | 067245285       | 6K  | F   | 5285   | 0   | 61  | -124  | 0.33  | 55  | 0.10  | 14   | 635  | 549  | 463  | 2.71 | 5.4  | 1.3  | 0   | 74 | 0.9  | 6.40  | 4.4   | 180 | MARTIN DAIRY LLC           | OR   |
| 427 HEARTLAND PLUS URBANIA             | 067232238       | 8K  | F   | 2238   | 1   | 73  | 1,404 | -0.08 | 51  | 0.02  | 54   | 398  | 355  | 335  | 3.17 | 1.5  | 0.1  | 1   | 85 | 1.2  | 1.43  | 8.7   | 179 | HEARTLAND JERSEYS          | KS   |
| 428 FARIA BROTHERS PLUS 102230         | 840003008535598 | 6K  | F   | 102230 | 1   | 68  | 1,710 | -0.17 | 46  | -0.05 | 52   | 368  | 365  | 379  | 3.10 | 1.2  | 0.7  | 1   | 81 | 0.8  | 1.76  | 5.7   | 179 | FARIA BROS DAIRIES         | TX   |
| 429 GR FARIA BROTHERS VALENTINO RHONDA | 840003009457575 | 6K  | F   | 200021 | 0   | 61  | 1,877 | -0.08 | 70  | -0.10 | 48   | 357  | 382  | 413  | 2.95 | 0.8  | -1.4 | 0   |    | 2.0  | 3.85  | 4.7   | 179 | FARIA BROS DAIRIES         | TX   |
| 430 PR FARIA BROTHERS PLUS 93176       | 840003008537544 | 6K  |     | 93176  | 1   | 66  | 1,810 | -0.14 | 56  | -0.08 | 48   | 379  | 387  | 395  | 2.79 | 0.7  | -0.9 | 1   | 84 | 1.5  | 3.02  | 5.0   | 179 | FARIA BROS DAIRIES         | TX   |
| 431 PR VIDA BOA DALE 13609             | 067213609       | 6K  | F   | 13609  | 3   | 73  | 1,647 | -0.06 | 63  | -0.05 | 48   | 436  | 431  | 433  | 2.90 | 2.4  | 0.3  | 1   | 80 | 0.8  | 0.64  | 5.1   | 179 | VIDA BOA FARMS             | CA   |
| 432 JARS OF CLAY VALENTINO ALISON      | 067243344       | 6K  | C   | 3344   | 1   | 70  | 1,495 | 0.00  | 68  | -0.03 | 47   | 423  | 416  | 424  | 3.09 | 2.3  | -0.8 | 1   | 83 | 1.8  | 2.08  | 7.1   | 179 | RANCHO TERESITA DAIRY      | CA   |
| 433 CAL-MART IMPULS BREILA 2478        | 116390686       | 3K  |     | 236    | 3   | 69  | 823   | 0.14  | 64  | 0.09  | 47   | 556  | 468  | 405  | 3.09 | 3.6  | 0.7  | 2   | 74 | 0.3  | -1.04 | 4.5   | 179 | MARTIN DAIRY LLC           | OR   |
| 434 CAL-MART BLADE LILYAN 3803         | 117389814       | 3K  |     | 3803   | 1   | 66  | 1,157 | 0.02  | 55  | 0.03  | 46   | 483  | 428  | 385  | 2.89 | 2.9  | -0.3 | 1   | 85 | 1.1  | 2.22  | 4.0   | 179 | MARTIN DAIRY LLC           | OR   |
| 435 GR FARIA BROTHERS LUCIUS 56520     | 840003006061158 | 6K  | F   | 56520  | 2   | 72  | 1,469 | -0.06 | 57  | -0.04 | 45   | 398  | 383  | 373  | 2.87 | 0.5  | 0.1  | 0   |    | 1.2  | 2.60  | 4.5   | 179 | FARIA BROS DAIRIES         | TX   |
| 436 IMPULSIVE MOMENT AT WILSONVIEW-ET  | 067181167       | 3K  |     | 1167   | 5   | 85  | 1,372 | -0.02 | 58  | -0.02 | 45   | 443  | 429  | 433  | 3.12 | 2.9  | 1.1  | 2   | 88 | 1.3  | 1.36  | 6.2   | 179 | WILSONVIEW DAIRY           | OR   |
| 437 GR FARIA BROTHERS VICTORY 66747    | 840003007466486 | 8K  | F   | 66747  | 2   | 59  | 1,332 | 0.06  | 74  | -0.02 | 45   | 456  | 424  | 400  | 2.88 | 1.5  | 0.2  | 0   | 85 | 0.7  | 2.03  | -1.9  | 179 | FARIA DAIRY                | AZ   |
| 438 PR FARIA BROTHERS IMPULS 88589     | 840003004634228 | 6K  | F   | 88589  | 1   | 63  | 1,231 | 0.03  | 64  | 0.00  | 45   | 507  | 475  | 461  | 3.08 | 3.4  | 1.2  | 1   | 80 | 0.8  | -0.09 | 3.9   | 179 | FARIA BROS DAIRIES         | TX   |
| 439 WINDY ACRES TBONE DIONE            | 117483723       | 6K  | F   | 1402   | 1   | 72  | 923   | 0.10  | 61  | 0.05  | 43   | 456  | 398  | 361  | 3.11 | 2.4  | -0.1 | 1   | 84 | 1.9  | 3.37  | 8.8   | 179 | DUTCH HOLLOW FARM          | NY   |
| 440 GR BFF419 BACK ACTION IMPULS 550   | 117719370       | 8K  | F   | 550    | 1   | 67  | 1,090 | -0.04 | 43  | 0.02  | 42   | 491  | 448  | 419  | 2.99 | 3.8  | 0.6  | 1   | 84 | 0.9  | 1.84  | 5.0   | 179 | HEINZ, LLOYD               | WI   |
| 441 DUTCH HOLLOW LEGAL BEAUTY          | 067184371       | 8K  | F   | 4371   | 1   | 69  | 1,664 | -0.13 | 50  | -0.10 | 41   | 395  | 417  | 440  | 2.87 | 3.0  | -0.2 | 1   | 83 | 1.7  | 4.20  | 5.9   | 179 | DUTCH HOLLOW FARM          | NY   |
| 442 HEARTLAND VALENTINO ARIZONA        | 067262342       | 3K  |     | 2342   | 1   | 71  | 1,243 | -0.09 | 40  | -0.02 | 41   | 418  | 391  | 372  | 2.88 | 2.7  | -0.7 | 1   | 86 | 2.5  | 5.50  | 9.8   | 179 | HEINZ, LLOYD               | WI   |
| 443 HIGHLAND VALENTINO D JEAN          | 067222794       | 8K  | C   | 2794   | 1   | 72  | 1,438 | -0.07 | 52  | -0.05 | 40   | 407  | 412  | 424  | 2.96 | 2.7  | -0.4 | 0   | 84 | 1.7  | 4.80  | 8.9   | 179 | HIGHLAND FARMS             | ME   |
| 444 AHLEM LEGAL SCARLET 35493          | 069042699       | 8K  | C   | 35493  | 1   | 71  | 1,028 | -0.01 | 46  | 0.01  | 38   | 506  | 465  | 429  | 2.84 | 3.3  | 1.1  | 1   | 84 | 1.2  | 1.97  | 6.9   | 179 | AHLEM, WILLIAM JR          | CA   |
| 445 DUPAT LEGAL 8967                   | 067148967       | 6K  | F   | 8967   | 0   | 64  | 1,442 | -0.08 | 53  | -0.08 | 36   | 426  | 443  | 460  | 2.86 | 3.6  | 0.0  | 0   | 78 | 1.6  | 4.63  | 6.5   | 179 | WICKSTROM JERSEY FARMS INC | CA   |
| 446 SUNSET CANYON IMPULS L MAID 4-ET   | 116519669       | 50K | F   | 1749   | 2   | 71  | 346   | 0.36  | 84  | 0.13  | 36   | 616  | 511  | 429  | 3.05 | 3.7  | 0.4  | 1   | 91 | 1.2  | 2.37  | 3.8   | 179 | SILVA, ERIC LEONARD        | OR   |
| 447 VALSIGNA KARBALA 18132             | 117727795       | 6K  | F   | 18132  | 0   | 66  | 929   | 0.06  | 55  | 0.00  | 35   | 482  | 447  | 420  | 2.92 | 3.6  | 0.3  | 0   |    | 1.5  | 3.43  | 8.0   | 179 | WICKSTROM DAIRIES, LP      | CA   |
| 448 GRAMMER PAT KENDRA                 | 067233385       | 3K  |     | 3385   | 1   | 67  | 378   | 0.10  | 39  | 0.11  | 34   | 530  | 431  | 350  | 2.96 | 4.1  | 0.5  | 1   | 82 | 2.1  | 4.84  | 6.6   | 179 | GRAMMER, BENJAMIN P        | OH   |
| 449 AHLEM LEGAL LAUREN 35156           | 069042362       | 8K  | F   | 35156  | 1   | 70  | 738   | 0.01  | 36  | 0.03  | 33   | 498  | 442  | 392  | 2.83 | 4.3  | 0.5  | 1   | 78 | 1.6  | 5.30  | 7.2   | 179 | AHLEM, WILLIAM JR          | CA   |
| 450 D&E SPARKY MOLLY 5191              | 067375191       | 3K  |     | 5191   | 1   | 70  | 576   | 0.09  | 42  | 0.07  | 33   | 504  | 431  | 370  | 2.90 | 3.8  | 0.4  | 0   |    | 1.7  | 4.59  | 9.0   | 179 | AVILA RICHARD & JENNIFER M | TX   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                 | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |    |      |       |       | Owner | ST                         |               |    |
|--------------------------------------|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|----|------|-------|-------|-------|----------------------------|---------------|----|
|                                      |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   | GFI   |       |                            | GJPI          |    |
| 451 AHLEM IATOLA TIFFANY 30909       | 065340282       | 3K  |     | 30909            | 3   | 74  | 752   | 0.01  | 36  | 0.02  | 32   | 458  | 416  | 385              | 2.96 | 3.5  | 0.8  | 2   | 80 | 1.9  | 5.87  | 9.9   | 179   | AHLEM, WILLIAM JR          | CA            |    |
| 452 FOREST GLEN IMPULS JULIE         | 067282281       | 3K  |     | 2281             | 3   | 69  | 217   | 0.29  | 63  | 0.12  | 31   | 586  | 492  | 420              | 3.11 | 4.6  | 1.5  | 2   | 83 | 1.0  | 3.33  | 5.0   | 179   | BANSEN, DAN K              | OR            |    |
| 453 GR SUNNY SLOPES DALE SOPHIE      | 116545116       | 3K  |     | 45116            | 2   | 70  | 1,716 | -0.21 | 39  | -0.03 | 57   | 419  | 386  | 365              | 2.89 | 2.7  | -0.8 | 2   | 80 | 0.4  | 0.66  | 5.7   | 178   | GRAMMER JERSEY FARM LLC    | OH            |    |
| 454 O.F. REBEL VAL                   | 067046090       | 3K  |     | 6090             | 4   | 74  | 1,367 | 0.06  | 74  | 0.03  | 55   | 380  | 323  | 289              | 3.08 | -0.4 | -1.6 | 3   | 91 | 1.0  | 3.19  | 7.3   | 178   | OWENS FARMS INC            | WI            |    |
| 455 LJC VALENTINOS FAVORITE          | 117603341       | 50K | C   | 23               | 0   | 67  | 1,101 | 0.05  | 59  | 0.07  | 52   | 442  | 367  | 318              | 3.15 | 1.2  | -0.3 | 0   | 83 | 1.4  | 2.46  | 7.8   | 178   | CAMPBELL, DR LARRY J       | WA            |    |
| 456 VALSIGNA SHAWNEE 13273           | 116756158       | 6K  | F   | 13273            | 3   | 70  | 1,647 | 0.00  | 75  | -0.05 | 48   | 428  | 421  | 419              | 2.86 | 0.9  | -0.1 | 2   | 75 | 0.5  | -0.21 | 6.6   | 178   | WICKSTROM DAIRIES, LP      | CA            |    |
| 457 DUTCH HOLLOW AIDEN EXCEL         | 116510866       | 8K  | F   | 3821             | 3   | 73  | 1,430 | -0.05 | 55  | -0.01 | 48   | 439  | 410  | 393              | 2.97 | 2.3  | -0.4 | 2   | 83 | 0.8  | 1.59  | 7.7   | 178   | CHITTENDEN, PAUL C         | NY            |    |
| 458 D&E LEGAL TWYLA 22125            | 067422125       | 3K  |     | 22125            | 1   | 67  | 1,557 | -0.20 | 35  | -0.05 | 47   | 363  | 360  | 369              | 3.04 | 2.7  | -0.8 | 1   | 87 | 1.9  | 4.36  | 6.1   | 178   | D & E JERSEYS              | TX            |    |
| 459 VALSIGNA CACTUS 17441            | 117611186       | 3K  |     | 50008            | 1   | 70  | 1,490 | -0.05 | 59  | -0.03 | 47   | 429  | 419  | 422              | 3.06 | 2.0  | 1.0  | 1   | 83 | 1.0  | 0.81  | 7.8   | 178   | STROUP, WILLIAM TODD       | CA            |    |
| 460 CAL-MART PLUS HONEY 5324-ET      | 067185324       | 6K  | F   | 5324             | 0   | 67  | 1,462 | -0.07 | 54  | -0.03 | 47   | 431  | 410  | 400              | 2.95 | 1.9  | -0.2 | 0   | 84 | 1.1  | 1.90  | 7.0   | 178   | MARTIN DAIRY LLC           | OR            |    |
| 461 DEBOER TBONE M5352               | 115721766       | 3K  |     | 5352             | 4   | 74  | 1,062 | 0.08  | 64  | 0.04  | 46   | 421  | 363  | 323              | 3.04 | 0.6  | -0.3 | 2   | 76 | 1.7  | 3.45  | 10.0  | 178   | DEBOER, NICO               | TX            |    |
| 462 GR CAL-MART GANNON JACEY 3217    | 117006948       | 3K  |     | 3217             | 2   | 67  | 1,347 | -0.05 | 53  | -0.02 | 45   | 442  | 414  | 394              | 2.89 | 2.6  | 0.3  | 1   | 82 | 1.4  | 2.67  | 4.6   | 178   | MARTIN DAIRY LLC           | OR            |    |
| 463 WINDHAVENS LOTTO RAENBOW         | 067036689       | 8K  | F   | 689              | 2   | 70  | 1,208 | 0.09  | 72  | 0.01  | 45   | 519  | 471  | 434              | 2.88 | 2.7  | 0.5  | 2   | 83 | 0.4  | -1.03 | 7.3   | 178   | GREENE, WAYNE JR           | WI            |    |
| 464 GR FARIA BROTHERS ZINC PORSCH    | 840003008935326 | 3K  |     | 94838            | 1   | 63  | 1,259 | -0.05 | 48  | -0.01 | 44   | 407  | 374  | 351              | 2.93 | 1.6  | -0.1 | 1   | 76 | 1.0  | 3.60  | 4.9   | 178   | FARIA BROS DAIRIES         | TX            |    |
| 465 CHOC-O-LIT IMPULS NOVA           | 067024165       | 8K  | F   | 65               | 3   | 72  | 1,078 | 0.04  | 57  | 0.03  | 44   | 504  | 451  | 414              | 3.01 | 3.2  | 0.8  | 3   | 91 | 1.1  | 1.18  | 6.0   | 178   | MARTIN, STEVEN             | PA            |    |
| 466 SANDCREKS TBONE BROWNIE          | 117627853       | 6K  | F   | 5661             | 1   | 69  | 1,163 | 0.07  | 67  | 0.00  | 43   | 424  | 396  | 389              | 3.18 | 2.2  | 0.1  | 1   | 84 | 1.8  | 3.19  | 9.2   | 178   | SAND CREEK DAIRY LLC       | MI            |    |
| 467 ALL LYNNS NAVARA VERA-ET         | 117222843       | 3K  |     | 31350            | 2   | 70  | 843   | 0.16  | 68  | 0.07  | 43   | 487  | 409  | 350              | 2.98 | 1.8  | -0.6 | 2   | 88 | 1.8  | 2.66  | 6.9   | 178   | RECTOR JERSEY FARM         | CA            |    |
| 468 CAL-MART IMPULS JOELLE 9484      | 115457485       | 3K  |     | 706              | 5   | 74  | 1,047 | -0.07 | 36  | 0.03  | 42   | 482  | 434  | 401              | 3.00 | 3.8  | 1.0  | 2   | 82 | 1.3  | 2.78  | 6.8   | 178   | MARTIN DAIRY LLC           | OR            |    |
| 469 JER-Z-BOYZ MAXIMUM 25062         | 117102729       | 3K  |     | 25062            | 3   | 72  | 979   | 0.26  | 93  | 0.04  | 42   | 563  | 503  | 454              | 2.88 | 2.3  | -0.1 | 0   | 85 | 0.5  | -0.22 | 6.2   | 178   | JER-Z-BOYZ                 | CA            |    |
| 470 MFW RENEGADE SANDY               | 067351698       | 3K  |     | 1698             | 1   | 66  | 642   | 0.23  | 74  | 0.09  | 41   | 550  | 454  | 374              | 2.91 | 2.6  | 0.0  | 0   | 85 | 1.0  | 1.48  | 5.7   | 178   | MASON, KATIE C             | MD            |    |
| 471 HEINZ UPPERCUT TWILITE 7479      | 069402191       | 3K  |     | 90025            | 1   | 69  | 1,231 | -0.04 | 50  | -0.03 | 39   | 474  | 457  | 446              | 2.89 | 3.9  | -0.7 | 1   | 81 | 1.6  | 2.65  | 8.4   | 178   | AVILA RICHARD & JENNIFER M | TX            |    |
| 472 MILLS RENEGADE DILLY             | 117505755       | 8K  | F   | 7201             | 1   | 68  | 1,027 | 0.16  | 77  | 0.01  | 39   | 544  | 506  | 482              | 2.99 | 3.8  | 0.2  | 1   | 76 | 0.9  | 0.20  | 6.1   | 178   | MILLS JERSEY FARM LLC      | NV            |    |
| 473 BLUE MIST TBONE MADDY 2-ET       | 117215885       | 8K  | F   | 1192             | 1   | 71  | 803   | 0.19  | 74  | 0.05  | 38   | 505  | 449  | 412              | 3.07 | 3.3  | -0.2 | 1   | 85 | 1.2  | 3.04  | 7.8   | 178   | GOMES, CURTIS              | OR            |    |
| 474 HEARTLAND LOTTO FLAIR            | 067232201       | 50K | F   | 2201             | 2   | 74  | 976   | 0.06  | 57  | 0.01  | 36   | 538  | 494  | 452              | 2.73 | 3.7  | 0.5  | 2   | 85 | 0.6  | 1.39  | 8.3   | 178   | HEARTLAND JERSEYS          | KS            |    |
| 475 AHLEM LEGAL CHARM 35767          | 069042973       | 3K  |     | 35767            | 1   | 70  | 363   | 0.09  | 32  | 0.08  | 29   | 562  | 482  | 412              | 2.89 | 5.2  | 1.2  | 1   | 87 | 2.0  | 5.17  | 8.7   | 178   | AHLEM, WILLIAM JR          | CA            |    |
| 476 NORSE STAR ALLSTAR N3323         | 067223323       | 3K  |     | 4450             | 1   | 68  | 501   | 0.22  | 62  | 0.06  | 28   | 541  | 481  | 428              | 2.88 | 3.5  | 0.2  | 2   | 86 | 1.6  | 5.74  | 6.5   | 178   | NORSE STAR JERSEYS         | WI            |    |
| 477 GR FARIA BROTHERS VALENTINO KIMA | 840003007171783 | 6K  | C   | 69665            | 1   | 58  | 1,447 | 0.02  | 70  | 0.00  | 51   | 422  | 381  | 355              | 2.95 | 1.2  | -1.3 | 1   | 81 | 1.0  | 2.66  | 1.1   | 177   | FARIA DAIRY                | AZ            |    |
| 478 D&E VIBRANT NOEL 5211            | 067375211       | 6K  | F   | 5211             | 1   | 70  | 1,559 | -0.05 | 63  | -0.05 | 46   | 490  | 478  | 469              | 2.81 | 3.4  | -0.5 | 0   |    |      | 0.1   | -0.71 | 7.5   | 177                        | D & E JERSEYS | TX |
| 479 FARIA BROTHERS VIBRANT STERLING  | 840003008534388 | 6K  | F   | 101020           | 1   | 68  | 1,859 | -0.13 | 62  | -0.11 | 45   | 422  | 462  | 507              | 3.02 | 4.3  | -0.5 | 1   | 76 | 0.6  | -0.11 | 4.4   | 177   | FARIA DAIRY                | AZ            |    |
| 480 HILMAR VERMEER 30009             | 067330009       | 3K  |     | 30009            | 1   | 68  | 1,247 | 0.04  | 65  | -0.01 | 44   | 481  | 445  | 418              | 2.90 | 2.3  | 0.5  | 1   | 82 | 0.7  | -0.31 | 6.9   | 177   | AHLEM, CHARLES             | CA            |    |
| 481 GR SHAN-MAR DALE FRAZZLED-ET     | 067100332       | 3K  |     | 332              | 2   | 70  | 1,011 | 0.01  | 47  | 0.04  | 43   | 537  | 475  | 422              | 2.84 | 4.6  | 0.1  | 2   | 77 | 0.4  | 1.16  | 3.6   | 177   | WICKSTROM JERSEY FARMS INC | CA            |    |
| 482 JER-Z-BOYZ BENEFACOR 29424       | 118063605       | 8K  | F   | 29424            | 3   | 75  | 1,494 | -0.08 | 52  | -0.06 | 41   | 443  | 446  | 449              | 2.82 | 3.1  | -0.5 | 0   | 92 | 1.6  | 2.50  | 9.2   | 177   | JER-Z-BOYZ                 | CA            |    |
| 483 AHLEM HEADLINE REBA 37660        | 070049134       | 8K  | F   | 37660            | 1   | 71  | 1,232 | -0.04 | 47  | -0.02 | 40   | 442  | 425  | 420              | 3.01 | 3.9  | 0.4  | 0   | 64 | 1.6  | 3.08  | 9.0   | 177   | AHLEM, WILLIAM JR          | CA            |    |
| 484 ALL LYNNS ECLIPES VIRTUOUS-P-ET  | 117655067       | 3K  |     | 1481             | 0   | 68  | 1,051 | 0.02  | 51  | 0.01  | 40   | 414  | 372  | 342              | 2.93 | 2.4  | -1.3 | 1   | 82 | 1.8  | 5.14  | 9.0   | 177   | ALLEN, DAVID               | WI            |    |
| 485 D&E LEGAL KIT 22190              | 067422190       | 3K  |     | 22190            | 1   | 69  | 1,386 | -0.14 | 36  | -0.05 | 39   | 417  | 424  | 439              | 3.00 | 4.4  | 0.9  | 1   | 83 | 1.8  | 3.52  | 7.8   | 177   | D & E JERSEYS              | TX            |    |
| 486 IRISHTOWNS W2477 LEGAL JIMMY     | 067232477       | 8K  | F   | 2477             | 1   | 69  | 1,080 | -0.06 | 39  | 0.00  | 37   | 491  | 462  | 440              | 2.89 | 4.5  | 1.1  | 1   | 82 | 1.5  | 3.02  | 4.9   | 177   | IRISHTOWN ACRES            | PA            |    |
| 487 SR HEADLINE CAROLYN              | 117544640       | 8K  | F   | 16               | 1   | 73  | 1,631 | -0.20 | 38  | -0.12 | 36   | 409  | 459  | 511              | 3.01 | 5.7  | 0.0  | 1   | 81 | 1.4  | 3.21  | 9.4   | 177   | SPRUCE ROW FARM            | PA            |    |
| 488 GR FARIA BROTHERS TBONE FRANCO   | 840003004417428 | 3K  |     | 60721            | 3   | 69  | 1,125 | 0.00  | 51  | -0.02 | 36   | 433  | 418  | 410              | 2.93 | 2.9  | 0.0  | 0   | 88 | 2.4  | 4.93  | 5.2   | 177   | FARIA DAIRY                | AZ            |    |
| 489 CAL-MART HEADLINE BINHA 3985     | 117545593       | 3K  |     | 3985             | 1   | 68  | 1,274 | -0.07 | 44  | -0.05 | 35   | 511  | 512  | 515              | 2.88 | 5.8  | 1.3  | 0   | 79 | 0.6  | 1.08  | 6.6   | 177   | MARTIN DAIRY LLC           | OR            |    |
| 490 FOREST GLEN PLUS JESICA          | 067323896       | 8K  | F   | 3896             | 1   | 72  | 1,220 | -0.08 | 41  | -0.04 | 35   | 456  | 458  | 468              | 3.01 | 3.7  | 0.3  | 1   | 81 | 2.0  | 3.95  | 8.4   | 177   | BANSEN STANLEY K & DORA H  | OR            |    |
| 491 AHLEM LEGAL BENITA 35632         | 069042838       | 8K  | F   | 35632            | 1   | 71  | 1,174 | -0.09 | 37  | -0.04 | 34   | 419  | 413  | 410              | 2.86 | 3.8  | 0.4  | 1   | 83 | 2.2  | 6.23  | 7.6   | 177   | AHLEM, WILLIAM JR          | CA            |    |
| 492 JCJ IMPULS 18244                 | 840003003980719 | 3K  |     | 18244            | 3   | 70  | 593   | 0.13  | 51  | 0.07  | 34   | 543  | 475  | 424              | 3.04 | 4.4  | 1.0  | 2   | 85 | 0.9  | 3.22  | 4.5   | 177   | AHLEM, JAMES               | CA            |    |
| 493 LEGAL SARAH 717                  | 117400461       | 3K  |     | 1400             | 1   | 69  | 899   | 0.05  | 49  | 0.00  | 32   | 521  | 487  | 455              | 2.80 | 4.6  | 0.3  | 1   | 88 | 1.6  | 3.61  | 7.8   | 177   | CHITTENDEN, PAUL C         | NY            |    |
| 494 CLOVER PATCH BOLD EXIT           | 117674417       | 8K  | F   | 2052             | 1   | 70  | 958   | 0.00  | 45  | -0.02 | 30   | 461  | 444  | 431              | 2.87 | 3.7  | 0.6  | 0   | 81 | 2.0  | 5.33  | 8.1   | 177   | KOZAK, ALAN                | OH            |    |
| 495 GABYS ALEXANDER WILMA            | 116981273       | 6K  | F   | 1798             | 2   | 73  | 455   | 0.20  | 59  | 0.05  | 27   | 527  | 471  | 428              | 2.99 | 3.8  | 1.5  | 2   | 86 | 1.3  | 4.38  | 8.9   | 177   | GABY, HENRY                | TN            |    |
| 496 PR FARIA BROTHERS MILITIA CERSEI | 840003001574442 | 6K  | F   | 27338            | 3   | 59  | 1,498 | -0.01 | 68  | -0.01 | 50   | 437  | 415  | 409              | 3.07 | 1.7  | 0.7  | 0   | 83 | -0.1 | -0.27 | -0.8  | 176   | FARIA DAIRY                | AZ            |    |
| 497 GR BUTTERCREST DALE SAUCY-ET     | 116547136       | 50K | F   | 21               | 2   | 69  | 1,532 | -0.11 | 49  | -0.05 | 46   | 444  | 434  | 432              | 2.91 | 3.5  | 0.1  | 2   | 89 | 0.9  | 1.18  | 2.7   | 176   | RIVER VALLEY FARM          | IL            |    |
| 498 SUMMETZ PARA CUZ CARON           | 067023723       | 3K  |     | 3723             | 5   | 74  | 1,079 | -0.03 | 44  | 0.04  | 46   | 420  | 361  | 321              | 3.05 | 2.0  | -0.5 | 2   | 92 | 1.3  | 3.83  | 7.7   | 176   | SUMMIT FARM INC            | IA            |    |
| 499 VALSIGNA VICTOR 17140            | 117551288       | 3K  |     | 17140            | 1   | 69  | 1,091 | 0.10  | 68  | 0.02  | 44   | 411  | 365  | 335              | 3.03 | 0.8  | -0.5 | 1   | 82 | 1.6  | 3.75  | 8.4   | 176   | WICKSTROM DAIRIES, LP      | CA            |    |
| 500 GR FARIA BROTHERS VERMEER 58754  | 840003006317304 | 6K  | F   | 58754            | 2   | 61  | 1,238 | 0.15  | 86  | -0.01 | 43   | 515  | 484  | 463              | 2.93 | 2.4  | 0.7  | 1   | 82 | 0.4  | -0.77 | -0.5  | 176   | FARIA BROS DAIRIES         | TX            |    |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPAT ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |    |      | Owner | ST  |     |   |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|----|------|-------|-----|-----|---|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS | PTAT |       |     | JUI | GFI   | GJPI |
| 501 AHLEM LEGAL CORA 35659              | 069042865       | 8K  | F   | 35659            | 1   | 70  | 1,200 | -0.07 | 41  | 0.00  | 43   | 399  | 367  | 348              | 3.03 | 2.1  | -0.2 | 2   | 87 | 2.1  | 5.39  | 6.9 | 176 | AHLEM, WILLIAM JR                           | CA   |
| 502 DEN-KEL CHAMP JESSICA-ET            | 067100787       | 3K  |     | 787              | 1   | 71  | 1,000 | -0.02 | 44  | 0.04  | 43   | 486  | 421  | 366              | 2.85 | 2.7  | -0.3 | 0   | 85 | 1.5  | 2.88  | 8.8 | 176 | BK/DK SYNDICATE                             | NY   |
| 503 PR FARIA BROTHERS VALENTINO 93221   | 840003008537589 | 6K  | F   | 93221            | 1   | 71  | 1,258 | -0.01 | 55  | -0.01 | 42   | 445  | 426  | 421              | 3.04 | 3.4  | -0.5 | 1   | 82 | 1.4  | 3.31  | 6.8 | 176 | FARIA BROS DAIRIES                          | TX   |
| 504 VALSIGNA SPARKY 18094               | 117727469       | 6K  | F   | 18094            | 1   | 71  | 1,206 | 0.01  | 57  | -0.01 | 42   | 382  | 357  | 346              | 3.04 | 1.3  | -0.6 | 0   | 81 | 1.5  | 4.63  | 9.3 | 176 | WICKSTROM DAIRIES, LP                       | CA   |
| 505 D&E SPARKY MARVEL 5196              | 067375196       | 6K  | F   | 5196             | 1   | 72  | 1,004 | 0.08  | 62  | 0.03  | 42   | 464  | 410  | 370              | 2.96 | 2.3  | -0.9 | 0   |    | 0.9  | 2.80  | 8.7 | 176 | D & E JERSEYS                               | TX   |
| 506 LUCKY HILL JOKER PHLOPSIE           | 117353497       | 8K  | F   | 820              | 1   | 70  | 971   | 0.08  | 60  | 0.04  | 42   | 444  | 390  | 353              | 3.01 | 2.0  | -0.6 | 1   | 87 | 1.3  | 3.41  | 8.4 | 176 | LUCKY HILL FARM                             | VT   |
| 507 SHAN-MAR PLUS KIRAN                 | 067128552       | 3K  |     | 552              | 1   | 67  | 1,373 | -0.04 | 53  | -0.04 | 41   | 459  | 446  | 438              | 2.86 | 2.7  | 0.2  | 1   | 85 | 1.4  | 2.39  | 6.2 | 176 | GARDNER MARK & SHANNON                      | PA   |
| 508 FOREST GLEN LEGAL CHILL             | 067354423       | 3K  |     | 4423             | 1   | 67  | 1,152 | -0.01 | 49  | -0.01 | 40   | 426  | 408  | 407              | 3.14 | 3.1  | 0.8  | 0   | 76 | 1.8  | 3.75  | 7.1 | 176 | BANSEN, DAN K                               | OR   |
| 509 SPRING CREEK IMPULS LIBERTY-ET      | 067070457       | 3K  |     | 1249             | 2   | 69  | 760   | 0.20  | 72  | 0.06  | 39   | 547  | 480  | 432              | 3.04 | 3.2  | 1.3  | 2   | 88 | 1.1  | 1.22  | 4.6 | 176 | SPRING CREEK FARMS                          | WI   |
| 510 DUPAT LEGAL 8822-ET                 | 067148822       | 3K  |     | 8822             | 1   | 70  | 938   | -0.04 | 35  | 0.02  | 38   | 441  | 399  | 370              | 3.01 | 3.8  | 0.4  | 0   | 68 | 1.7  | 4.92  | 7.4 | 176 | WICKSTROM JERSEY FARMS INC                  | CA   |
| 511 VTF SICILY 4639 VINNIE              | 069545571       | 6K  | F   | 4910             | 1   | 67  | 1,357 | -0.09 | 47  | -0.06 | 37   | 457  | 456  | 453              | 2.77 | 4.0  | -0.6 | 0   | 83 | 1.2  | 3.17  | 4.5 | 176 | VA TECH FOUNDATION                          | VA   |
| 512 OOMSDALE CELEBRITY GARYN GEENA      | 067138530       | 8K  | F   | 530              | 1   | 71  | 915   | 0.05  | 50  | 0.00  | 34   | 438  | 408  | 389              | 2.98 | 3.0  | 0.4  | 1   | 83 | 2.2  | 5.71  | 6.1 | 176 | OOMS, MICHAEL AREND                         | CA   |
| 513 AHLEM LEGAL MANDY 35719             | 069042925       | 3K  |     | 35719            | 1   | 69  | 1,035 | -0.04 | 38  | -0.03 | 32   | 449  | 439  | 435              | 2.93 | 4.4  | 0.8  | 1   | 81 | 1.8  | 5.40  | 7.1 | 176 | AHLEM, WILLIAM JR                           | NY   |
| 514 CLOVER PATCH IMPULS JAMA            | 117771495       | 8K  | F   | 2248             | 0   | 63  | 542   | 0.18  | 57  | 0.06  | 30   | 529  | 471  | 424              | 2.98 | 4.1  | 1.1  | 0   | 78 | 1.6  | 3.75  | 6.3 | 176 | KOZAK, ALAN                                 | OH   |
| 515 WOODSTOCK CELEBRITY LUCY BROWN      | 117474745       | 3K  |     | 1261             | 1   | 71  | 747   | -0.01 | 31  | 0.01  | 29   | 456  | 417  | 380              | 2.80 | 3.6  | 1.3  | 1   | 82 | 2.0  | 5.89  | 9.6 | 176 | WOODSTOCK DAIRY                             | OR   |
| 516 AHLEM LEGAL CHARM 35462             | 069042668       | 3K  |     | 35462            | 1   | 68  | 629   | 0.12  | 51  | 0.03  | 27   | 494  | 450  | 412              | 2.87 | 3.8  | 0.5  | 1   | 84 | 2.0  | 6.56  | 6.9 | 176 | AHLEM, WILLIAM JR                           | CA   |
| 517 BW RENEGADE JAYNE U745              | 117280142       | 6K  | F   | 115              | 1   | 71  | 550   | 0.22  | 67  | 0.04  | 26   | 573  | 525  | 484              | 2.90 | 5.0  | 1.1  | 2   | 84 | 1.2  | 3.06  | 6.0 | 176 | BRENTWOOD FARMS                             | CA   |
| 518 PR FARIA BROTHERS MATINEE 19205     | 840003001577150 | 6K  | F   | 19205            | 3   | 59  | 2,298 | -0.09 | 89  | -0.12 | 59   | 350  | 386  | 432              | 3.05 | -0.2 | 0.0  | 0   |    | 0.1  | -2.18 | 0.9 | 175 | FARIA DAIRY                                 | AZ   |
| 519 TOLLENAAR VIBRANT 6914-D163-ET      | 840003007843934 | 3K  |     | 6914             | 0   | 64  | 1,431 | -0.08 | 52  | -0.03 | 46   | 469  | 448  | 439              | 2.97 | 4.0  | -0.4 | 1   | 84 | 0.6  | 0.63  | 7.4 | 175 | TOLLENAAR JERSEYS                           | CA   |
| 520 MOO GRACIE VALENTINO 1134           | 067601134       | 8K  | F   | 1134             | 1   | 68  | 1,333 | 0.06  | 72  | 0.00  | 46   | 459  | 425  | 401              | 2.92 | 2.3  | -1.0 | 0   | 73 | 1.3  | 1.12  | 6.3 | 175 | MOORE, BRIAN J                              | NC   |
| 521 IRISHTOWNS W2272 BUNGY JERRY-ET     | 067252272       | 3K  |     | 2272             | 2   | 71  | 989   | 0.00  | 45  | 0.05  | 46   | 459  | 388  | 333              | 2.97 | 2.4  | 0.1  | 2   | 86 | 0.8  | 1.86  | 6.1 | 175 | IRISHTOWN ACRES                             | PA   |
| 522 GR OOMSDALE CC IATOLA GALEN         | 067027358       | 50K | C   | 358              | 3   | 75  | 1,091 | 0.08  | 66  | 0.03  | 44   | 433  | 390  | 367              | 3.13 | 2.1  | -0.6 | 3   | 88 | 1.8  | 3.23  | 4.7 | 175 | OOMS, MICHAEL AREND                         | NY   |
| 523 D&E CACTUS ELSIE 22239              | 067422239       | 3K  |     | 22239            | 1   | 69  | 1,378 | 0.00  | 62  | -0.03 | 43   | 441  | 427  | 423              | 2.97 | 1.8  | 1.3  | 1   | 78 | 1.0  | 0.99  | 7.5 | 175 | D & E JERSEYS                               | TX   |
| 524 GR FARIA BROTHERS VENERABLE 99201   | 840003006318096 | 6K  | F   | 99201            | 1   | 66  | 1,462 | -0.02 | 65  | -0.05 | 42   | 440  | 440  | 448              | 2.98 | 2.4  | -1.1 | 2   | 85 | 1.4  | 3.41  | 3.5 | 175 | FARIA BROS DAIRIES                          | TX   |
| 525 GR JENKS GANNON LONI-ET             | 116887494       | 3K  |     | 2015             | 3   | 72  | 1,385 | -0.07 | 51  | -0.03 | 42   | 391  | 383  | 384              | 2.97 | 2.4  | 0.5  | 2   | 82 | 1.5  | 3.19  | 6.5 | 175 | JENKS, WILLIAM H (JIM)                      | WI   |
| 526 SUN VALLEY IMPULS SUGAR             | 114756200       | 3K  |     | 1612             | 5   | 72  | 1,174 | 0.00  | 54  | 0.00  | 42   | 459  | 423  | 398              | 2.94 | 2.5  | 0.3  | 2   | 90 | 1.6  | 2.28  | 4.4 | 175 | SUN VALLEY FARM                             | OR   |
| 527 SUNWEST ABE BOLD H9787              | 840003002880201 | 3K  |     | 9787             | 4   | 75  | 790   | 0.15  | 66  | 0.07  | 41   | 606  | 521  | 446              | 2.81 | 4.2  | 0.0  | 0   | 82 | 0.0  | -1.37 | 7.4 | 175 | SUNWEST JERSEY DAIRY                        | CA   |
| 528 GR FARIA BROTHERS RENEGADE 93320    | 840003008537688 | 6K  | F   | 93320            | 1   | 56  | 1,096 | 0.13  | 74  | 0.01  | 39   | 490  | 455  | 428              | 2.89 | 2.2  | 0.9  | 1   | 81 | 1.2  | 1.58  | 0.9 | 175 | FARIA BROS DAIRIES                          | TX   |
| 529 CLOVER PATCH IMPULS ENCORE          | 116200787       | 3K  |     | 1467             | 4   | 71  | 601   | 0.12  | 50  | 0.09  | 39   | 507  | 416  | 344              | 2.98 | 2.9  | 0.5  | 2   | 84 | 0.9  | 2.49  | 6.5 | 175 | KOZAK ALAN & KOVALAN KELLE A                | OH   |
| 530 D&E ABE KIRA 22140                  | 067422140       | 3K  |     | 22140            | 1   | 69  | 970   | -0.02 | 42  | 0.01  | 37   | 517  | 472  | 431              | 2.80 | 4.5  | 0.5  | 1   | 83 | 0.6  | 1.41  | 6.8 | 175 | D & E JERSEYS                               | TX   |
| 531 DEN-KEL JILT-ET                     | 067100807       | 3K  |     | 807              | 1   | 68  | 1,114 | -0.01 | 48  | -0.03 | 35   | 506  | 484  | 461              | 2.77 | 4.4  | 0.6  | 0   | 82 | 1.1  | 2.12  | 7.0 | 175 | HEARTLAND JERSEYS                           | KS   |
| 532 D&E LEGAL PARTYTIME 22362           | 067422362       | 6K  | C   | 2362             | 0   | 66  | 991   | -0.03 | 39  | -0.02 | 32   | 458  | 442  | 433              | 2.95 | 4.6  | 0.5  | 0   | 78 | 1.5  | 5.49  | 7.5 | 175 | RUSSELL, LARS WILLIAM                       | CA   |
| 533 IRISHTOWNS W2006 ARTIST JARION      | 067252006       | 50K | F   | 2006             | 3   | 77  | 986   | 0.02  | 48  | -0.02 | 31   | 480  | 465  | 453              | 2.88 | 4.2  | 0.6  | 0   | 81 | 1.3  | 3.33  | 7.3 | 175 | IRISHTOWN ACRES                             | PA   |
| 534 HIGH LAWN ARTIS VENUS               | 115941562       | 3K  |     | 8230             | 3   | 73  | 667   | 0.09  | 46  | 0.00  | 25   | 555  | 528  | 505              | 2.89 | 5.9  | 1.5  | 3   | 86 | 0.4  | 2.87  | 6.4 | 175 | HIGH LAWN FARM                              | MA   |
| 535 SID J ABE LUCENT 21130              | 067521130       | 3K  |     | 21130            | 4   | 73  | 1,235 | 0.07  | 70  | 0.04  | 52   | 541  | 463  | 396              | 2.77 | 2.8  | -1.3 | 2   | 85 | -0.2 | -2.41 | 7.1 | 174 | AVILA, SIDNEY J                             | TX   |
| 536 GR FARIA BROTHERS VALENTINO TRUDY   | 840003009425218 | 6K  | F   | 103507           | 0   | 61  | 2,049 | -0.21 | 54  | -0.12 | 50   | 343  | 381  | 421              | 2.92 | 1.6  | -0.9 | 0   |    | 1.2  | 1.48  | 5.0 | 174 | FARIA DAIRY                                 | AZ   |
| 537 GR SEACORD FARM GANNON MALLORY      | 117105795       | 3K  |     | 9146             | 1   | 65  | 1,490 | -0.05 | 59  | -0.01 | 50   | 369  | 353  | 358              | 3.18 | 1.7  | 0.0  | 2   | 80 | 1.2  | 1.83  | 5.3 | 174 | ALLEN, DAVID                                | WI   |
| 538 SPRING CREEK IMPULS IMPATIENT-ET    | 067070443       | 3K  |     | 1234             | 2   | 69  | 981   | 0.09  | 61  | 0.08  | 49   | 487  | 412  | 363              | 3.17 | 2.6  | 0.0  | 2   | 84 | 1.3  | 1.11  | 5.6 | 174 | SPRING CREEK FARMS                          | WI   |
| 539 PR FARIA BROTHERS GANNON 103288     | 840003009424999 | 6K  | C   | 103288           | 1   | 55  | 1,678 | -0.14 | 51  | -0.07 | 45   | 368  | 382  | 400              | 2.93 | 3.1  | -0.5 | 0   |    | 0.9  | 2.73  | 0.8 | 174 | FARIA DAIRY                                 | AZ   |
| 540 PR FARIA BROTHERS SHAWNEE 63842     | 840003005642939 | 6K  | F   | 63842            | 3   | 57  | 1,634 | -0.06 | 61  | -0.06 | 45   | 438  | 430  | 417              | 2.66 | 1.8  | -0.2 | 0   | 85 | 0.7  | 0.23  | 0.1 | 174 | FARIA DAIRY                                 | AZ   |
| 541 KATES HEADLINE NADIA 22186          | 067422186       | 3K  |     | 22186            | 1   | 69  | 1,516 | -0.13 | 45  | -0.05 | 45   | 411  | 406  | 411              | 2.99 | 3.0  | 0.7  | 1   | 83 | 1.0  | 1.18  | 7.2 | 174 | RECTOR JERSEY FARM                          | CA   |
| 542 GR OOMSDALE CC VALETINO CHARLENE-ET | 067138560       | 3K  |     | 560              | 1   | 66  | 1,180 | -0.03 | 51  | 0.01  | 44   | 403  | 366  | 345              | 3.06 | 2.5  | -0.1 | 0   |    | 1.5  | 3.82  | 3.4 | 174 | OOMS, MICHAEL AREND                         | NY   |
| 543 GR GRAMMER DALE TERI                | 067353121       | 3K  |     | 3121             | 1   | 67  | 1,275 | -0.18 | 26  | -0.02 | 43   | 421  | 399  | 388              | 3.00 | 4.3  | 0.6  | 1   | 80 | 1.2  | 2.81  | 4.7 | 174 | GRAMMER JERSEY FARM LLC                     | OH   |
| 544 TOLLENAAR VIBRANT 6916-D167-ET      | 840003007843936 | 3K  |     | 6916             | 0   | 65  | 1,344 | -0.06 | 51  | -0.03 | 41   | 498  | 484  | 477              | 2.90 | 4.7  | -0.4 | 1   | 72 | 0.3  | 0.47  | 8.1 | 174 | TOLLENAAR JERSEYS                           | CA   |
| 545 GR FARIA BROTHERS VALENTINO VALERIE | 840003008534825 | 3K  |     | 101457           | 1   | 68  | 1,336 | -0.06 | 50  | -0.03 | 41   | 390  | 381  | 382              | 3.01 | 2.3  | -0.6 | 1   | 86 | 1.9  | 4.34  | 6.1 | 174 | FARIA DAIRY                                 | AZ   |
| 546 WILSONVIEW LEGAL BRIANNE            | 117490848       | 3K  |     | 1810             | 1   | 68  | 1,040 | 0.09  | 63  | 0.03  | 41   | 470  | 426  | 397              | 3.03 | 2.7  | 0.1  | 1   | 82 | 1.9  | 3.14  | 7.0 | 174 | WILSONVIEW DAIRY                            | OR   |
| 547 PR FARIA BROTHERS CARL 102913       | 840003008536281 | 6K  | F   | 102913           | 1   | 57  | 1,252 | -0.02 | 51  | -0.02 | 40   | 396  | 378  | 369              | 2.94 | 2.5  | 0.6  | 0   |    | 2.0  | 4.45  | 1.7 | 174 | FARIA DAIRY                                 | AZ   |
| 548 BARHAMS IMPULS AMY                  | 117159851       | 3K  |     | 707              | 1   | 68  | 1,100 | 0.01  | 50  | 0.00  | 40   | 475  | 437  | 407              | 2.90 | 3.5  | -0.2 | 2   | 81 | 0.9  | 2.25  | 6.6 | 174 | RIVER VALLEY FARM                           | IL   |
| 549 HEARTLAND VALENTINO DARCY           | 067232286       | 50K | F   | 50007            | 1   | 72  | 1,087 | -0.02 | 46  | 0.02  | 40   | 481  | 436  | 398              | 2.82 | 3.5  | -0.7 | 1   | 86 | 1.5  | 3.28  | 7.7 | 174 | SEXING TECHNOLOGIES / SIRE HOUSING FACILITY | TX   |
| 550 HILMAR LEGAL 33585                  | 067433585       | 6K  | F   | 33585            | 0   | 66  | 946   | 0.03  | 49  | 0.03  | 40   | 427  | 379  | 346              | 3.02 | 2.2  | -0.3 | 0   | 85 | 2.2  | 4.95  | 8.5 | 174 | AHLEM, CHARLES                              | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |                                       |      |
|---|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|---------------------------------------|------|
|   |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                                   | GJPI |
| 551 CAL-MART BLADE MERYL 5028           | 067125028       | 3K  |     | 5028  | 1   | 68  | 840   | 0.07  | 52  | 0.06  | 40   | 527  | 456  | 398  | 2.90 | 3.5  | 0.9  | 0   | 76 | 0.8  | 0.72  | 6.4   | 174 | MARTIN DAIRY LLC                      | OR   |
| 552 D&E HEADLINE CANDY                  | 067422083       | 3K  |     | 22083 | 1   | 70  | 1,391 | -0.10 | 45  | -0.06 | 39   | 470  | 478  | 494  | 3.02 | 5.9  | -0.1 | 2   | 90 | 1.2  | 2.00  | 8.9   | 174 | D & E JERSEYS                         | TX   |
| 553 GR BARHAMS GOOSE BLACK BEAUTY-ET    | 117266489       | 3K  |     | 1607  | 1   | 67  | 1,072 | 0.04  | 58  | 0.01  | 39   | 498  | 452  | 410  | 2.76 | 2.6  | 0.3  | 1   | 85 | 1.0  | 2.12  | 4.5   | 174 | ROWLEY STEVE & GLYNN MIKE             | MS   |
| 554 VALENTINO MAY 766                   | 117517482       | 3K  |     | 30766 | 1   | 70  | 1,081 | -0.08 | 36  | 0.00  | 38   | 466  | 429  | 396  | 2.79 | 3.9  | -0.1 | 1   | 86 | 1.6  | 3.52  | 8.8   | 174 | TAYLOR, WYATT                         | CA   |
| 555 WILSONVIEW AL SAHARA                | 117281189       | 3K  |     | 1742  | 1   | 65  | 985   | 0.12  | 68  | 0.01  | 38   | 537  | 502  | 480  | 3.02 | 4.4  | 0.6  | 1   | 81 | 0.3  | 0.37  | 3.5   | 174 | WILSONVIEW DAIRY                      | OR   |
| 556 GR SANDCREKS TBONE 4919             | 840003007050196 | 6K  | F   | 4919  | 1   | 68  | 597   | 0.12  | 50  | 0.08  | 38   | 502  | 419  | 355  | 3.02 | 3.4  | -0.2 | 0   | 86 | 1.8  | 3.57  | 7.7   | 174 | SAND CREEK DAIRY LLC                  | MI   |
| 557 LUCKY HILL LEGAL POPCORN            | 117454554       | 3K  |     | 836   | 1   | 70  | 1,133 | -0.13 | 28  | -0.03 | 36   | 420  | 404  | 394  | 2.93 | 3.8  | 0.7  | 1   | 79 | 2.2  | 5.12  | 8.0   | 174 | MCREYNOLDS, LUKE W                    | VT   |
| 558 DIAMOND S LOTTO VERACIOUS           | 067118553       | 3K  |     | 1550  | 1   | 70  | 975   | 0.15  | 74  | 0.00  | 35   | 540  | 508  | 484  | 2.93 | 3.9  | 1.0  | 1   | 80 | 0.5  | 0.46  | 8.5   | 174 | DIAMOND S FARM                        | MN   |
| 559 HILMAR MANTLE 26283                 | 067326283       | 6K  | C   | 26283 | 2   | 74  | 1,018 | -0.04 | 40  | -0.01 | 34   | 465  | 445  | 433  | 2.96 | 4.5  | 0.4  | 1   | 79 | 1.0  | 3.38  | 7.7   | 174 | AHLEM, CHARLES                        | CA   |
| 560 VALSIGNA KARBALA 14190              | 116963954       | 6K  | F   | 14190 | 3   | 73  | 691   | 0.07  | 47  | 0.04  | 34   | 453  | 383  | 318  | 2.75 | 1.9  | -0.4 | 2   | 86 | 2.0  | 5.96  | 7.8   | 174 | WICKSTROM DAIRIES, LP                 | CA   |
| 561 AHLEM LEGAL WINOLA 37760            | 070049234       | 8K  | C   | 37760 | 1   | 68  | 967   | -0.02 | 39  | 0.00  | 33   | 431  | 412  | 401  | 2.99 | 4.1  | 0.5  | 0   | 86 | 2.3  | 5.49  | 6.9   | 174 | AHLEM, WILLIAM JR                     | CA   |
| 562 BW LEGION SUZANNE 4 ET730-ET        | 117022649       | 50K | F   | 1940  | 2   | 77  | 907   | 0.09  | 58  | -0.01 | 30   | 477  | 465  | 462  | 3.04 | 4.9  | 0.6  | 0   | 84 | 1.5  | 4.02  | 8.7   | 174 | BRENTWOOD FARMS                       | CA   |
| 563 DODAN LAUREL LEGAL LORNA            | 117443677       | 3K  |     | 32    | 1   | 68  | 492   | 0.14  | 49  | 0.06  | 29   | 589  | 522  | 465  | 2.90 | 6.0  | 0.7  | 1   | 82 | 1.0  | 2.88  | 7.0   | 174 | DIAMOND VALLEY DAIRY                  | OR   |
| 564 BELLWOOD TULIP-ET                   | 117226418       | 3K  |     | 1100  | 1   | 68  | 909   | -0.07 | 29  | -0.02 | 28   | 479  | 465  | 450  | 2.81 | 5.4  | 0.8  | 1   | 79 | 2.1  | 5.57  | 7.4   | 174 | WAKKER DAIRY                          | WI   |
| 565 SCHULTZ IMPULS JAINEY               | 067269093       | 3K  |     | 9093  | 3   | 68  | 592   | -0.01 | 26  | 0.03  | 27   | 574  | 522  | 472  | 2.78 | 6.5  | 2.3  | 2   | 85 | 0.4  | 2.46  | 3.4   | 174 | HUFFARD JAMES S III & JAMES S IV      | VA   |
| 566 TOLLENAAR ZUMA 7533                 | 840003008872608 | 8K  | C   | 7533  | 0   | 58  | 679   | 0.11  | 51  | 0.01  | 26   | 553  | 519  | 488  | 2.85 | 5.3  | 1.0  | 0   | 59 | 0.8  | 3.20  | 3.7   | 174 | TOLLENAAR JERSEYS                     | CA   |
| 567 AHLEM LEGAL FRIEND 36051            | 070047525       | 8K  | C   | 36051 | 1   | 71  | 377   | 0.10  | 36  | 0.07  | 26   | 514  | 447  | 390  | 2.90 | 4.3  | 1.3  | 2   | 81 | 1.8  | 6.22  | 8.4   | 174 | AHLEM, WILLIAM JR                     | CA   |
| 568 CAL-MART ZUMA SASA 5315             | 067185315       | 8K  | F   | 5315  | 0   | 63  | 291   | 0.17  | 44  | 0.07  | 24   | 562  | 488  | 421  | 2.83 | 5.4  | 0.2  | 0   | 74 | 1.4  | 5.11  | 5.6   | 174 | MARTIN DAIRY LLC                      | OR   |
| 569 VALSIGNA ACADEMY 17263              | 117552412       | 3K  |     | 17263 | 1   | 70  | 887   | -0.09 | 25  | -0.05 | 22   | 494  | 500  | 503  | 2.83 | 6.9  | 1.5  | 0   |    | 1.3  | 4.63  | 7.4   | 174 | WICKSTROM DAIRIES, LP                 | CA   |
| 570 AHLEM LEGAL PRINCESS 37453          | 070048927       | 8K  | F   | 37453 | 1   | 69  | 259   | 0.12  | 35  | 0.03  | 16   | 586  | 538  | 489  | 2.77 | 6.8  | 1.1  | 0   | 82 | 2.1  | 7.04  | 6.6   | 174 | AHLEM, WILLIAM JR                     | CA   |
| 571 GR WILSONVIEW GARDEN SUNDAY-ET      | 067191495       | 3K  |     | 1495  | 3   | 69  | 1,506 | -0.02 | 66  | 0.00  | 53   | 427  | 396  | 386  | 3.12 | 2.5  | -0.9 | 2   | 88 | 1.0  | 0.59  | 3.3   | 173 | WILSONVIEW DAIRY                      | OR   |
| 572 AHLEM TBONE ALICE 33615             | 066623048       | 6K  | F   | 33615 | 2   | 74  | 1,306 | -0.01 | 57  | 0.02  | 51   | 354  | 309  | 285  | 3.12 | -0.1 | -0.9 | 4   | 88 | 2.4  | 4.37  | 10.0  | 173 | AHLEM, WILLIAM JR                     | CA   |
| 573 CAL-MART LOUIE TANDA 3603           | 117247404       | 3K  |     | 3603  | 2   | 69  | 1,695 | -0.10 | 58  | -0.05 | 50   | 426  | 419  | 422  | 2.94 | 2.4  | 0.1  | 1   | 83 | 0.5  | 0.53  | 5.1   | 173 | MARTIN DAIRY LLC                      | OR   |
| 574 DP VERNON CATHIE 782                | 067096782       | 8K  | C   | 782   | 1   | 71  | 1,571 | -0.09 | 55  | -0.04 | 49   | 424  | 413  | 414  | 3.01 | 2.6  | -0.7 | 1   | 82 | 1.1  | 0.79  | 7.9   | 173 | DESERT PARK JERSEYS                   | OR   |
| 575 FARIA BROTHERS ALLSTAR 93876        | 840003008538244 | 3K  |     | 93876 | 1   | 67  | 1,160 | 0.12  | 75  | 0.04  | 49   | 434  | 369  | 318  | 2.91 | -0.3 | -0.8 | 0   |    | 0.8  | 1.79  | 6.1   | 173 | FARIA DAIRY                           | AZ   |
| 576 PR FARIA BROTHERS TBONE 44666       | 840003004195486 | 3K  |     | 44666 | 3   | 66  | 1,251 | -0.03 | 52  | 0.01  | 48   | 384  | 331  | 291  | 2.90 | 0.1  | -0.9 | 2   | 87 | 1.9  | 3.45  | 3.4   | 173 | FARIA BROS DAIRIES                    | TX   |
| 577 PR FARIA BROTHERS MAXIMUM SHANAYNAY | 840003004414975 | 3K  |     | 60968 | 3   | 62  | 1,381 | 0.07  | 78  | -0.02 | 47   | 439  | 410  | 392  | 2.95 | 1.1  | 0.0  | 1   | 80 | 1.0  | 0.59  | 2.5   | 173 | FARIA BROS DAIRIES                    | TX   |
| 578 FOREST GLEN PLUS BARBIE             | 067282764       | 8K  | F   | 2764  | 2   | 72  | 1,456 | -0.15 | 37  | -0.04 | 45   | 399  | 394  | 403  | 3.08 | 3.1  | 0.0  | 2   | 82 | 1.1  | 2.60  | 5.5   | 173 | BANSEN, DAN K                         | OR   |
| 579 GR FARIA BROTHERS RENEGADE 91151    | 840003008304261 | 6K  | F   | 91151 | 1   | 69  | 1,169 | 0.11  | 73  | 0.01  | 43   | 481  | 441  | 412  | 2.94 | 2.1  | 1.0  | 1   | 79 | 0.7  | -0.83 | 6.0   | 173 | FARIA BROS DAIRIES                    | TX   |
| 580 CDF TBONE KODY M25673               | 840003005081106 | 3K  |     | 25673 | 2   | 73  | 507   | 0.12  | 46  | 0.12  | 42   | 465  | 359  | 278  | 3.09 | 2.1  | 0.1  | 0   | 82 | 1.8  | 4.15  | 9.7   | 173 | GRAMMER, BENJAMIN P                   | OH   |
| 581 GR WILSONVIEW GARDEN MILEY-ET       | 116536679       | 3K  |     | 1507  | 3   | 68  | 1,122 | -0.02 | 48  | 0.00  | 40   | 509  | 474  | 448  | 2.89 | 5.1  | 0.3  | 2   | 87 | 0.7  | 1.38  | 3.1   | 173 | WILSONVIEW DAIRY                      | OR   |
| 582 FOREST GLEN ALEXANDERS TAM          | 067354683       | 6K  | F   | 4683  | 1   | 70  | 1,178 | -0.03 | 49  | -0.03 | 37   | 493  | 476  | 463  | 2.87 | 3.6  | 0.9  | 0   | 76 | 1.2  | 1.67  | 6.2   | 173 | BANSEN, DAN K                         | OR   |
| 583 DEN-KEL CHAMP GARBO                 | 067100741       | 3K  |     | 741   | 1   | 70  | 790   | 0.14  | 62  | 0.04  | 37   | 507  | 445  | 395  | 2.91 | 2.8  | 0.2  | 1   | 88 | 1.2  | 2.26  | 9.0   | 173 | KELLER, KIP A                         | NY   |
| 584 COLD RUN IMPULS SHERBERT            | 117410262       | 8K  | F   | 571   | 1   | 70  | 789   | 0.11  | 58  | 0.05  | 37   | 544  | 483  | 434  | 2.91 | 3.5  | 0.9  | 1   | 87 | 1.0  | 1.32  | 6.6   | 173 | MILLER LEROY & MARTHA SUE             | OH   |
| 585 GRAMMER MAXIMUM FERNAND             | 067233372       | 3K  |     | 3372  | 1   | 68  | 285   | 0.36  | 80  | 0.14  | 36   | 566  | 452  | 361  | 3.01 | 2.2  | -0.1 | 1   | 77 | 1.1  | 2.57  | 6.4   | 173 | GRAMMER JERSEY FARM LLC               | OH   |
| 586 HEARTLAND SENECA JONI               | 067232298       | 50K | F   | 2298  | 1   | 70  | 1,005 | -0.03 | 40  | 0.00  | 35   | 527  | 496  | 468  | 2.84 | 5.7  | -0.2 | 1   | 84 | 0.6  | 1.55  | 6.3   | 173 | HEARTLAND JERSEYS                     | KS   |
| 587 AHLEM LEGAL TIFFANY 35530           | 069042736       | 8K  | F   | 35530 | 2   | 72  | 997   | -0.04 | 38  | -0.01 | 35   | 434  | 410  | 395  | 2.97 | 3.9  | -0.2 | 1   | 83 | 2.3  | 5.63  | 8.3   | 173 | AHLEM, WILLIAM JR                     | CA   |
| 588 HILMAR KILOWATT 29602               | 067329602       | 3K  |     | 29602 | 1   | 70  | 821   | -0.02 | 35  | 0.03  | 35   | 464  | 412  | 369  | 2.86 | 3.8  | 1.0  | 1   | 84 | 0.2  | 3.43  | 7.9   | 173 | AHLEM, CHARLES                        | CA   |
| 589 JO-KIRCH ZUMA SHOOTING STAR         | 117744769       | 8K  | F   | 977   | 0   | 63  | 844   | 0.04  | 45  | 0.02  | 34   | 522  | 471  | 423  | 2.76 | 3.9  | 1.3  | 0   |    | -0.1 | 1.24  | 5.5   | 173 | KIRCHDOERFER, EDWARD F                | MO   |
| 590 GR FARIA BROTHERS LEGACY SALLY      | 840003005642797 | 6K  | F   | 63700 | 3   | 69  | 773   | 0.03  | 42  | 0.03  | 34   | 470  | 428  | 400  | 3.05 | 4.0  | 1.6  | 0   | 86 | 1.0  | 2.96  | 3.5   | 173 | FARIA DAIRY                           | AZ   |
| 591 AHLEM LEGAL LEA 35686               | 069042892       | 3K  |     | 35686 | 1   | 68  | 757   | 0.07  | 49  | 0.04  | 34   | 492  | 441  | 399  | 2.92 | 4.0  | -0.2 | 1   | 85 | 1.5  | 4.08  | 7.6   | 173 | AHLEM, WILLIAM JR                     | CA   |
| 592 AHLEM TBONE LEA 31758               | 066069142       | 3K  |     | 31758 | 2   | 73  | 631   | 0.22  | 71  | 0.06  | 34   | 496  | 426  | 368  | 2.90 | 2.0  | -0.5 | 2   | 82 | 1.7  | 3.98  | 10.1  | 173 | AHLEM, WILLIAM JR                     | CA   |
| 593 AHLEM LEGAL QUEEN 37363             | 070048837       | 6K  | F   | 37363 | 1   | 68  | 900   | -0.03 | 37  | 0.01  | 33   | 452  | 419  | 393  | 2.92 | 3.8  | 0.4  | 1   | 82 | 2.4  | 5.27  | 7.3   | 173 | AHLEM, WILLIAM JR                     | CA   |
| 594 FOREST GLEN IMPULS EMERALD          | 067069848       | 6K  | F   | 9848  | 4   | 73  | 469   | 0.10  | 40  | 0.08  | 33   | 520  | 437  | 369  | 2.94 | 3.8  | 1.5  | 2   | 87 | 0.6  | 3.69  | 5.8   | 173 | BANSEN, DAN K                         | OR   |
| 595 GR VALSIGNA KILOWATT 18150          | 117729939       | 6K  | F   | 18150 | 0   | 60  | 616   | 0.10  | 43  | 0.04  | 30   | 522  | 470  | 425  | 2.90 | 4.8  | 2.0  | 0   |    | 0.1  | 2.69  | 4.0   | 173 | WICKSTROM DAIRIES, LP                 | CA   |
| 596 SUN VALLEY ZUMA LUCINDRA            | 117809288       | 8K  | C   | 2903  | 0   | 61  | 470   | 0.12  | 44  | 0.06  | 28   | 569  | 498  | 432  | 2.77 | 4.9  | 1.4  | 0   | 76 | 0.6  | 2.67  | 5.0   | 173 | SUN VALLEY FARM                       | OR   |
| 597 OPEN A FAN ANNIE                    | 067106293       | 3K  |     | 9     | 1   | 69  | 352   | 0.12  | 39  | 0.06  | 24   | 477  | 423  | 385  | 3.08 | 4.4  | 0.8  | 1   | 88 | 2.1  | 7.68  | 7.4   | 173 | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX   |
| 598 AHLEM LEGAL TIFFANY 36494           | 070047968       | 8K  | F   | 36494 | 1   | 71  | 546   | 0.02  | 28  | 0.00  | 20   | 509  | 482  | 452  | 2.77 | 5.6  | 1.4  | 1   | 82 | 2.3  | 6.57  | 8.0   | 173 | AHLEM, WILLIAM JR                     | CA   |
| 599 GOLDUST KARBALA LAINA-ET            | 067382045       | 8K  | C   | 2045  | 0   | 69  | 310   | 0.15  | 43  | 0.03  | 17   | 515  | 468  | 418  | 2.70 | 4.5  | 0.8  | 0   | 89 | 1.9  | 7.19  | 9.0   | 173 | LOURENZO, KEVIN B                     | ID   |
| 600 SR LEVY TWANG                       | 116221317       | 3K  |     | 491   | 3   | 72  | 1,649 | -0.14 | 49  | 0.00  | 58   | 408  | 370  | 349  | 3.02 | 2.2  | -0.9 | 2   | 84 | 0.6  | -1.18 | 6.6   | 172 | PETERS, COLE LOGAN                    | PA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                  | Reg #           | GT  | JH1 | ----- GPATA ----- |     |     |       |       |     |       |      |      |      |      |      | ----- TYPE ----- |      |     |    |      |       |      | Owner | ST                         |      |
|---------------------------------------|-----------------|-----|-----|-------------------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------------------|------|-----|----|------|-------|------|-------|----------------------------|------|
|                                       |                 |     |     | CCN               | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL               | DPR  | Rec | FS | PTAT | JUI   | GFI  |       |                            | GJPI |
| 601 O.F. IATOLA THOR MONA             | 0671126440      | 3K  |     | 6440              | 3   | 73  | 1,491 | -0.15 | 40  | -0.01 | 51   | 340  | 312  | 300  | 3.05 | 0.6              | -0.7 | 3   | 91 | 1.6  | 3.69  | 8.6  | 172   | OWENS FARMS INC            | WI   |
| 602 LUCKY HILL CHAMP OF THE MERENGUE  | 117219601       | 3K  |     | 807               | 1   | 70  | 1,437 | -0.11 | 47  | 0.00  | 51   | 411  | 375  | 357  | 3.04 | 1.8              | -0.5 | 1   | 82 | 1.2  | 1.38  | 8.3  | 172   | LUCKY HILL FARM            | VT   |
| 603 GR FARIA BROTHERS IMPULS 100437   | 840003008321544 | 3K  |     | 100437            | 1   | 56  | 1,096 | 0.12  | 72  | 0.05  | 49   | 494  | 428  | 384  | 3.07 | 2.2              | 0.0  | 0   | 0  | 0.1  | -0.75 | -0.3 | 172   | FARIA DAIRY                | AZ   |
| 604 CINNAMON RIDGE WARRIOR VALENTINA  | 117599891       | 50K | F   | 872               | 1   | 68  | 1,811 | -0.17 | 50  | -0.09 | 45   | 396  | 434  | 485  | 3.14 | 3.6              | 1.4  | 0   | 75 | 0.1  | -0.09 | 6.6  | 172   | MAXWELL JOHN & EDWIN       | IA   |
| 605 GR GRAMMER GANNON CAMALA          | 067192680       | 3K  |     | 2680              | 2   | 72  | 1,607 | -0.11 | 53  | -0.06 | 45   | 412  | 418  | 429  | 2.93 | 2.8              | -0.1 | 2   | 79 | 1.2  | 1.88  | 7.1  | 172   | GRAMMER JERSEY FARM LLC    | OH   |
| 606 DP PLUS FLOWER 959                | 0671106959      | 8K  | F   | 959               | 1   | 71  | 1,459 | -0.16 | 36  | -0.04 | 45   | 405  | 391  | 385  | 2.91 | 2.3              | -0.3 | 0   | 85 | 1.4  | 2.30  | 7.8  | 172   | DESERT PARK JERSEYS        | OR   |
| 607 GR GRAMMER DALE PICANTE           | 067353104       | 3K  |     | 3104              | 2   | 70  | 1,529 | -0.18 | 37  | -0.05 | 44   | 385  | 385  | 394  | 2.98 | 3.1              | 0.5  | 1   | 76 | 0.9  | 2.35  | 5.0  | 172   | GRAMMER JERSEY FARM LLC    | OH   |
| 608 WICKS ACADEMY 4263                | 067304263       | 3K  |     | 4263              | 1   | 68  | 1,747 | -0.24 | 36  | -0.10 | 43   | 346  | 378  | 414  | 2.98 | 3.4              | -0.1 | 0   | 83 | 1.6  | 3.62  | 8.2  | 172   | WICKSTROM BROS             | CA   |
| 609 GR FARIA BROTHERS VALENTINO 92122 | 840003008536490 | 6K  | F   | 92122             | 1   | 68  | 1,654 | -0.22 | 34  | -0.08 | 43   | 370  | 386  | 404  | 2.87 | 3.3              | -0.8 | 1   | 81 | 1.3  | 3.81  | 4.6  | 172   | FARIA BROS DAIRIES         | TX   |
| 610 GR FARIA BROTHERS MATINEE 24000   | 840003001577204 | 6K  | F   | 24000             | 4   | 66  | 1,218 | 0.05  | 66  | 0.00  | 43   | 508  | 478  | 461  | 3.00 | 3.0              | 1.3  | 0   | 0  | 0.4  | -1.62 | 2.0  | 172   | FARIA DAIRY                | AZ   |
| 611 ALL LYNNS STONE HALO              | 117272697       | 3K  |     | 1384              | 1   | 66  | 997   | 0.16  | 76  | 0.03  | 43   | 480  | 419  | 371  | 2.91 | 1.3              | -0.2 | 1   | 79 | 0.4  | 0.95  | 5.2  | 172   | ALLEN, DAVID               | WI   |
| 612 AHLEM TBONE PANSY 34071           | 069041277       | 8K  | F   | 34071             | 2   | 74  | 863   | 0.15  | 69  | 0.06  | 43   | 439  | 367  | 313  | 3.01 | 0.4              | -0.4 | 2   | 85 | 1.9  | 3.63  | 8.4  | 172   | AHLEM, WILLIAM JR          | CA   |
| 613 GR AHLEM GANNON POLLY 32692       | 066622125       | 3K  |     | 32692             | 3   | 71  | 1,395 | -0.05 | 54  | -0.04 | 42   | 377  | 366  | 361  | 2.91 | 1.9              | 0.1  | 2   | 73 | 0.7  | 2.41  | 6.2  | 172   | AHLEM, WILLIAM JR          | CA   |
| 614 AHLEM LEGAL CHERRY 35556          | 069042762       | 8K  | F   | 35556             | 1   | 70  | 1,236 | -0.11 | 35  | 0.00  | 42   | 377  | 359  | 358  | 3.13 | 3.0              | 0.1  | 1   | 86 | 1.7  | 4.50  | 7.1  | 172   | AHLEM, WILLIAM JR          | CA   |
| 615 GR OOMSDALE JEVON CC CLEOPATRA-ET | 067080412       | 50K | C   | 412               | 2   | 72  | 1,195 | -0.01 | 52  | 0.00  | 42   | 467  | 438  | 420  | 2.99 | 4.3              | 0.2  | 2   | 88 | 1.0  | 1.47  | 3.6  | 172   | YOSEMITE JERSEY DAIRY      | CA   |
| 616 PR JER-Z-BOYZ GANNON 30956        | 117720109       | 3K  |     | 30956             | 3   | 70  | 978   | 0.12  | 68  | 0.04  | 42   | 475  | 418  | 374  | 2.94 | 2.3              | 0.2  | 2   | 83 | 0.9  | 1.73  | 5.0  | 172   | JER-Z-BOYZ                 | CA   |
| 617 HILL TOP ACE MORGAN               | 116121037       | 3K  |     | 3939              | 3   | 74  | 1,222 | -0.05 | 48  | -0.02 | 41   | 440  | 421  | 415  | 3.04 | 3.3              | 0.7  | 3   | 88 | 0.8  | 1.53  | 7.0  | 172   | NORSE STAR JERSEYS         | WI   |
| 618 BW VALENTINO VALERIE ET761-ET     | 117267480       | 3K  |     | 66                | 1   | 72  | 1,275 | -0.01 | 57  | -0.03 | 40   | 388  | 375  | 372  | 3.00 | 1.6              | -0.7 | 1   | 88 | 2.6  | 4.75  | 9.2  | 172   | BRENTWOOD FARMS            | CA   |
| 619 K&K CELEBRITY 3350                | 067203350       | 3K  |     | 33500             | 0   | 65  | 1,242 | 0.08  | 72  | -0.02 | 40   | 432  | 413  | 401  | 2.93 | 2.0              | -0.5 | 1   | 85 | 1.8  | 2.66  | 8.9  | 172   | MULTI ROSE JERSEYS INC     | IA   |
| 620 BLUE MIST IMPULS LEEAH            | 116523026       | 50K | C   | 997               | 3   | 73  | 1,214 | -0.02 | 53  | -0.02 | 40   | 472  | 449  | 434  | 2.93 | 3.0              | 0.4  | 2   | 90 | 0.6  | 1.80  | 5.4  | 172   | GOMES, EDDIE               | OR   |
| 621 DP PLUS MARVEL 908                | 0671106908      | 3K  |     | 908               | 1   | 69  | 942   | 0.10  | 61  | 0.04  | 40   | 484  | 430  | 388  | 2.95 | 2.3              | 0.5  | 1   | 83 | 0.8  | 1.52  | 7.0  | 172   | DESERT PARK JERSEYS        | OR   |
| 622 GR HEARTLAND GANNON ABBY          | 067342173       | 8K  | C   | 2173              | 2   | 68  | 1,353 | 0.06  | 72  | -0.05 | 39   | 389  | 393  | 405  | 3.01 | 1.8              | 0.5  | 1   | 90 | 1.2  | 2.97  | 4.1  | 172   | ENNEKING, ANTHONY          | KS   |
| 623 AHLEM ABE SARAH 16535             | 062612755       | 3K  |     | 16535             | 5   | 73  | 1,121 | 0.11  | 72  | -0.01 | 38   | 547  | 516  | 490  | 2.83 | 4.1              | 0.5  | 2   | 84 | 0.2  | -1.82 | 6.0  | 172   | AHLEM, WILLIAM JR          | CA   |
| 624 CAL-MART UPPERCUT HOLLI 5328-ET   | 067185328       | 6K  | F   | 5328              | 1   | 68  | 1,019 | -0.04 | 40  | 0.01  | 38   | 461  | 424  | 398  | 2.94 | 3.7              | 1.0  | 0   | 81 | 0.9  | 1.94  | 6.0  | 172   | MARTIN DAIRY LLC           | OR   |
| 625 AHLEM LEGAL CAYMAN 35499          | 069042705       | 3K  |     | 35499             | 1   | 69  | 863   | 0.10  | 58  | 0.04  | 38   | 481  | 422  | 375  | 2.91 | 2.5              | -0.6 | 1   | 83 | 1.9  | 4.02  | 8.1  | 172   | AHLEM, WILLIAM JR          | CA   |
| 626 HILMAR VACATION 32851             | 067432851       | 6K  | F   | 32851             | 1   | 70  | 944   | 0.03  | 48  | 0.02  | 37   | 490  | 436  | 382  | 2.68 | 3.5              | -0.7 | 1   | 78 | 1.4  | 2.64  | 6.4  | 172   | AHLEM, CHARLES             | CA   |
| 627 SCHULTZ LEGAL HARMA-ET            | 067296119       | 3K  |     | 119               | 1   | 67  | 1,061 | -0.10 | 29  | -0.01 | 36   | 465  | 437  | 415  | 2.88 | 4.9              | 0.7  | 1   | 85 | 1.2  | 2.93  | 6.3  | 172   | HUFFARD DAIRY FARMS        | VA   |
| 628 MS PAT 6522 G826                  | 117326716       | 8K  | F   | 7826              | 1   | 69  | 909   | 0.07  | 56  | 0.01  | 34   | 528  | 486  | 447  | 2.79 | 3.7              | 0.8  | 1   | 77 | 0.7  | 1.53  | 5.4  | 172   | MOUNTAIN SHADOW DAIRY      | AZ   |
| 629 STEINHAUERS RENEGADE LEMONPIE-ET  | 117255575       | 3K  |     | 603               | 1   | 69  | 571   | 0.19  | 63  | 0.08  | 34   | 510  | 435  | 374  | 2.95 | 2.6              | 0.6  | 1   | 86 | 1.9  | 3.92  | 7.4  | 172   | STEINHAUERS JERSEYS        | WI   |
| 630 HILMAR ZUMA 33937                 | 067433937       | 8K  | F   | 33937             | 1   | 66  | 788   | 0.07  | 47  | 0.02  | 32   | 538  | 494  | 456  | 2.86 | 5.2              | 0.6  | 1   | 74 | 0.5  | 1.58  | 5.2  | 172   | RIVER VALLEY FARM          | IL   |
| 631 HILMAR ALLSTAR 18244              | 067218244       | 3K  |     | 18244             | 5   | 74  | 506   | 0.20  | 60  | 0.06  | 31   | 524  | 453  | 393  | 2.90 | 3.8              | -0.4 | 2   | 83 | 1.9  | 4.35  | 7.3  | 172   | AHLEM, CHARLES             | CA   |
| 632 CAL-MART MAXIMUM FELKA 2492       | 116401067       | 3K  |     | 997               | 3   | 71  | 421   | 0.26  | 68  | 0.09  | 31   | 665  | 575  | 491  | 2.76 | 5.7              | 0.2  | 2   | 81 | 0.6  | -0.54 | 5.3  | 172   | MARTIN DAIRY LLC           | OR   |
| 633 DUPAT LEGAL 8763                  | 067148763       | 3K  |     | 8763              | 1   | 70  | 798   | 0.06  | 48  | -0.01 | 28   | 487  | 462  | 442  | 2.90 | 4.1              | 1.0  | 1   | 77 | 2.0  | 4.82  | 7.6  | 172   | WICKSTROM JERSEY FARMS INC | CA   |
| 634 GR FARIA BROTHERS ZUMA 100209     | 840003008321316 | 6K  | F   | 100209            | 1   | 67  | 664   | 0.14  | 57  | 0.03  | 28   | 568  | 523  | 479  | 2.78 | 5.0              | 0.8  | 1   | 83 | 0.6  | 2.20  | 4.4  | 172   | FARIA DAIRY                | AZ   |
| 635 TOLLENAAR LENNOX 6649B820-ET      | 840003007398727 | 3K  |     | 6649              | 0   | 64  | 513   | 0.05  | 34  | 0.05  | 28   | 534  | 473  | 419  | 2.86 | 4.8              | 1.8  | 2   | 83 | 0.7  | 3.71  | 7.9  | 172   | TOLLENAAR JERSEYS          | CA   |
| 636 FARIA BROTHERS PLUS CAVANI        | 840003008536809 | 6K  | F   | 92441             | 1   | 64  | 1,795 | -0.07 | 69  | -0.05 | 54   | 375  | 366  | 370  | 2.99 | 0.6              | -0.9 | 1   | 83 | 1.1  | 0.22  | 2.8  | 171   | FARIA DAIRY                | AZ   |
| 637 GR BERRYS GANNON AUTUMN           | 117352517       | 3K  |     | 1024              | 1   | 66  | 1,632 | -0.10 | 55  | -0.06 | 48   | 364  | 359  | 364  | 2.95 | 1.5              | 0.0  | 1   | 84 | 0.9  | 1.75  | 4.8  | 171   | BERRY COLLEGE              | GA   |
| 638 GR FARIA BROTHERS VALENTINO 93302 | 840003008537670 | 3K  |     | 127180            | 1   | 68  | 1,518 | -0.12 | 45  | -0.03 | 48   | 365  | 346  | 336  | 2.92 | 1.1              | -0.6 | 0   | 0  | 1.3  | 3.17  | 6.2  | 171   | FARIA BROS DAIRIES         | TX   |
| 639 CAL-MART HARPER FARAH 3825        | 117467639       | 6K  | F   | 3825              | 1   | 69  | 895   | 0.19  | 78  | 0.08  | 48   | 517  | 434  | 377  | 3.12 | 2.2              | 0.1  | 1   | 75 | 0.4  | -1.23 | 5.9  | 171   | MARTIN DAIRY LLC           | OR   |
| 640 FARIA BROTHERS PLUS REGGIE LEWIS  | 840003009425460 | 6K  | F   | 103749            | 0   | 62  | 1,534 | 0.06  | 81  | -0.04 | 47   | 433  | 423  | 426  | 3.01 | 1.7              | -1.5 | 0   | 0  | 1.1  | 1.13  | 5.2  | 171   | FARIA DAIRY                | AZ   |
| 641 FOREST GLEN LEGAL KAREN           | 067354528       | 8K  | F   | 4528              | 1   | 66  | 1,433 | -0.15 | 36  | -0.03 | 46   | 353  | 335  | 328  | 2.97 | 1.9              | 0.2  | 0   | 77 | 1.7  | 3.89  | 4.9  | 171   | BANSEN, DAN K              | OR   |
| 642 VIDA BOA IMPULS 14033             | 067314033       | 6K  |     | 14033             | 1   | 62  | 1,048 | -0.04 | 42  | 0.05  | 46   | 422  | 354  | 303  | 2.95 | 1.1              | 0.8  | 0   | 0  | 0.3  | 2.02  | 2.5  | 171   | VIDA BOA FARMS             | CA   |
| 643 GR HILMAR ANDY 33258              | 067433258       | 6K  | F   | 33258             | 1   | 68  | 1,008 | -0.01 | 44  | 0.04  | 45   | 403  | 344  | 305  | 3.06 | 1.6              | -0.3 | 0   | 76 | 1.7  | 3.82  | 7.5  | 171   | AHLEM, CHARLES             | CA   |
| 644 JARS OF CLAY BOLD MERISSA         | 067243256       | 3K  |     | 3256              | 1   | 68  | 1,309 | 0.03  | 65  | -0.01 | 44   | 468  | 447  | 440  | 3.03 | 2.9              | -0.4 | 1   | 63 | 1.1  | 0.64  | 6.2  | 171   | RANCHO TERESITA DAIRY      | CA   |
| 645 SUN VALLEY JUPITER CLOVE          | 117378263       | 8K  | F   | 2583              | 2   | 69  | 591   | 0.23  | 68  | 0.12  | 44   | 500  | 390  | 304  | 3.04 | 1.3              | 0.0  | 1   | 86 | 0.8  | 1.57  | 5.9  | 171   | SEALS, JEFFREY JAMES       | OR   |
| 646 PEARLMONT VIBRANT SWEETHEART      | 117351589       | 50K | F   | 368               | 1   | 72  | 1,292 | -0.13 | 33  | -0.01 | 43   | 408  | 383  | 366  | 2.91 | 2.8              | -0.3 | 1   | 83 | 0.9  | 2.26  | 8.8  | 171   | PEARL, WILLIAM H           | VT   |
| 647 SUN VALLEY MATINEE LUCINDA        | 115741902       | 3K  |     | 2011              | 3   | 71  | 1,226 | 0.02  | 60  | -0.01 | 43   | 486  | 456  | 439  | 2.98 | 3.3              | -0.2 | 3   | 81 | 0.7  | 0.07  | 6.2  | 171   | SUN VALLEY FARM            | OR   |
| 648 GR WILSONVIEW GARDEN SPRITZER-ET  | 067191497       | 3K  |     | 1497              | 2   | 69  | 1,198 | 0.07  | 68  | 0.01  | 43   | 446  | 411  | 390  | 2.99 | 2.8              | -0.3 | 2   | 85 | 1.4  | 2.02  | 3.9  | 171   | WILSONVIEW DAIRY           | OR   |
| 649 PR FARIA BROTHERS JEVON JACKIE    | 840003005622000 | 6K  | F   | 47187             | 3   | 71  | 1,443 | -0.05 | 57  | -0.05 | 42   | 469  | 461  | 459  | 2.88 | 3.6              | -0.1 | 2   | 80 | 0.8  | 0.70  | 5.8  | 171   | FARIA BROS DAIRIES         | TX   |
| 650 HILMAR BENEFACTOR 20741           | 067320741       | 6K  | F   | 20741             | 3   | 76  | 1,310 | -0.10 | 42  | -0.03 | 41   | 426  | 405  | 388  | 2.82 | 2.7              | -0.5 | 2   | 85 | 1.3  | 2.43  | 8.6  | 171   | AHLEM, CHARLES             | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |    |      |       | Owner | ST  |                         |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|----|------|-------|-------|-----|-------------------------|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                     | GJPI |
| 651 BLUE MIST JUPITER PAM               | 117057252       | 8K  | F   | 1155             | 2   | 70  | 1,093 | 0.01  | 51  | 0.02  | 41   | 457  | 422  | 404              | 3.07 | 3.0  | 0.9  | 2   | 84 | 0.8  | 1.29  | 5.5   | 171 | GOMES, EDDIE            | OR   |
| 652 CAL-MART SENECA AINSLY 3986         | 117545605       | 3K  |     | 3986             | 1   | 67  | 1,024 | 0.09  | 64  | 0.01  | 40   | 493  | 450  | 419              | 2.98 | 3.6  | -0.2 | 0   | 75 | 1.1  | 1.59  | 5.5   | 171 | MARTIN DAIRY LLC        | OR   |
| 653 CAL-MART LOUIE PENNA 3725           | 117337161       | 3K  |     | 3725             | 1   | 68  | 1,246 | 0.00  | 57  | -0.03 | 39   | 471  | 463  | 464              | 3.01 | 4.5  | 0.6  | 1   | 78 | 0.8  | 0.75  | 6.4   | 171 | MARTIN DAIRY LLC        | OR   |
| 654 CAL-MART PLUS SELMAH 3563           | 117216420       | 3K  |     | 3563             | 1   | 68  | 1,075 | -0.02 | 44  | 0.01  | 39   | 466  | 431  | 404              | 2.91 | 3.5  | 0.3  | 1   | 81 | 1.5  | 2.68  | 5.8   | 171 | MARTIN DAIRY LLC        | OR   |
| 655 GR FARIA BROTHERS RENEGADE 68191    | 840003007170309 | 6K  |     | 68191            | 1   | 65  | 999   | 0.13  | 70  | 0.01  | 39   | 455  | 418  | 397              | 3.06 | 2.4  | -0.3 | 0   | 78 | 1.3  | 2.99  | 3.3   | 171 | FARIA BROS DAIRIES      | TX   |
| 656 CAL-MART JACE LKISHA 2455           | 116376576       | 3K  |     | 1059             | 3   | 73  | 966   | -0.08 | 27  | 0.02  | 38   | 462  | 413  | 369              | 2.80 | 3.7  | 0.7  | 2   | 83 | 1.1  | 3.17  | 9.6   | 171 | MARTIN DAIRY LLC        | OR   |
| 657 LAWTONS LEGAL POINSETTIA            | 117420906       | 3K  |     | 206              | 1   | 68  | 781   | -0.09 | 20  | 0.05  | 38   | 464  | 399  | 346              | 2.91 | 3.9  | 0.9  | 1   | 82 | 1.3  | 3.88  | 6.5   | 171 | KIRCHDOERFER, TRICIA JO | MO   |
| 658 MS MATINEE 4648 F673                | 116431460       | 3K  |     | 6673             | 3   | 72  | 1,157 | 0.07  | 67  | -0.03 | 37   | 466  | 450  | 442              | 2.96 | 2.9  | 0.9  | 2   | 83 | 0.9  | 1.41  | 5.6   | 171 | MOUNTAIN SHADOW DAIRY   | AZ   |
| 659 GR FARIA BROTHERS LOTTO 101631      | 840003008534999 | 6K  | F   | 101631           | 1   | 71  | 991   | 0.12  | 68  | 0.01  | 37   | 512  | 470  | 436              | 2.87 | 2.7  | 0.5  | 1   | 83 | 0.8  | 0.93  | 7.5   | 171 | FARIA BROS DAIRIES      | TX   |
| 660 FOREST GLEN REDHOT POLLYWOG         | 067354206       | 3K  |     | 4206             | 1   | 64  | 848   | 0.04  | 46  | 0.03  | 35   | 503  | 454  | 413              | 2.87 | 3.9  | 0.7  | 0   | 75 | 0.7  | 1.75  | 5.3   | 171 | FOREST GLEN JERSEYS     | OR   |
| 661 BERRYS IMPULS HANNAH                | 116037004       | 3K  |     | 1804             | 3   | 72  | 583   | 0.16  | 56  | 0.07  | 35   | 526  | 448  | 384              | 2.91 | 3.1  | 1.1  | 2   | 86 | 1.7  | 2.84  | 7.3   | 171 | CAMPBELL, KEVIN         | GA   |
| 662 BILTMORE NATHAN BRENDA 2171         | 115280829       | 3K  |     | 2171             | 4   | 75  | 561   | 0.07  | 39  | 0.08  | 34   | 494  | 415  | 347              | 2.89 | 3.9  | 0.6  | 2   | 83 | 1.2  | 4.07  | 7.7   | 171 | BILTMORE FARMS          | NC   |
| 663 BARHAMS RENEGADE BREN               | 117483862       | 50K | F   | 758              | 1   | 73  | 649   | 0.19  | 66  | 0.05  | 32   | 556  | 494  | 438              | 2.82 | 3.7  | 1.1  | 1   | 85 | 1.0  | 1.43  | 6.8   | 171 | BARHAM, RICHARD L       | TN   |
| 664 HAWARDEN PREMIER JODEE              | 067125619       | 3K  |     | 619              | 0   | 59  | 483   | 0.14  | 49  | 0.08  | 32   | 526  | 456  | 402              | 3.04 | 4.7  | 0.9  | 0   | 86 | 1.6  | 3.28  | 7.9   | 171 | HAWARDEN JERSEYS INC    | ID   |
| 665 HILMAR KARABALA 25626               | 067325626       | 3K  |     | 25626            | 2   | 72  | 958   | 0.00  | 45  | -0.02 | 31   | 426  | 408  | 395              | 2.91 | 3.3  | -0.1 | 3   | 86 | 2.0  | 4.89  | 9.3   | 171 | AHLEM, CHARLES          | CA   |
| 666 BW MAXIMUM BRENNNA S97              | 116120698       | 6K  | F   | 765              | 3   | 74  | 730   | 0.12  | 57  | 0.01  | 29   | 464  | 427  | 395              | 2.88 | 3.1  | 0.2  | 3   | 90 | 1.8  | 5.94  | 6.4   | 171 | BRENTWOOD FARMS         | CA   |
| 667 VALSIGNA KARBALA 17442              | 117611195       | 3K  |     | 17442            | 1   | 69  | 1,045 | 0.05  | 56  | -0.05 | 28   | 447  | 451  | 456              | 2.89 | 4.4  | -0.2 | 1   | 80 | 1.4  | 5.21  | 6.9   | 171 | WICKSTROM DAIRIES, LP   | CA   |
| 668 MVF ECLIPSE TOPSY 1862-P            | 067181862       | 8K  | F   | 1862             | 1   | 70  | 946   | -0.01 | 42  | -0.03 | 28   | 422  | 415  | 411              | 2.91 | 3.5  | -0.4 | 1   | 87 | 2.9  | 6.99  | 8.0   | 171 | RHEIN, CRAIG            | PA   |
| 669 JER-Z-BOYZ MAGNUM 34964             | 117665644       | 8K  | F   | 34964            | 1   | 68  | 687   | 0.18  | 66  | 0.02  | 28   | 571  | 530  | 495              | 2.87 | 5.0  | 1.0  | 1   | 81 | 0.4  | 1.05  | 4.4   | 171 | JER-Z-BOYZ              | CA   |
| 670 DIAMOND S LENNOX KAKI               | 067086456       | 8K  | F   | 1437             | 2   | 74  | 774   | 0.00  | 35  | 0.00  | 27   | 497  | 467  | 436              | 2.78 | 4.3  | 1.2  | 2   | 82 | 1.2  | 4.74  | 7.8   | 171 | DIAMOND S FARM          | MN   |
| 671 GR FARIA BROTHERS APPARTITION 65726 | 840003006264177 | 6K  | F   | 65726            | 2   | 68  | 155   | 0.33  | 66  | 0.10  | 24   | 600  | 516  | 442              | 2.89 | 4.9  | 1.4  | 0   |    | 0.8  | 2.51  | 4.3   | 171 | FARIA DAIRY             | AZ   |
| 672 ALL LYNNS REGION VERENA-ET          | 117655142       | 3K  |     | 1475             | 0   | 68  | 1,479 | 0.04  | 76  | -0.01 | 52   | 347  | 320  | 313              | 3.15 | -0.1 | -1.8 | 0   |    | 1.6  | 2.90  | 8.5   | 170 | ALLEN, DAVID            | WI   |
| 673 SUN VALLEY HOVBORG PANDA            | 116830933       | 50K | F   | 2384             | 2   | 66  | 1,109 | 0.13  | 77  | 0.05  | 50   | 439  | 371  | 327              | 3.11 | 0.6  | -1.0 | 2   | 87 | 1.2  | 1.39  | 3.1   | 170 | SUN VALLEY FARM         | OR   |
| 674 GR MM GANNON-PR 9459                | 117235281       | 8K  | F   | 9459             | 2   | 62  | 1,601 | -0.02 | 69  | -0.03 | 49   | 350  | 345  | 356              | 3.10 | 1.3  | -0.4 | 1   | 86 | 1.0  | 2.38  | 1.8   | 170 | MISTY MEADOW DAIRY      | OR   |
| 675 SF MATINEE 10044                    | 116105224       | 3K  |     | 10044            | 3   | 74  | 1,345 | 0.03  | 68  | -0.01 | 48   | 410  | 378  | 364              | 3.07 | 0.8  | 1.0  | 2   | 82 | 0.5  | 0.45  | 6.3   | 170 | STAAS FARM INC          | CA   |
| 676 GR WILSONVIEW GANNON JODY           | 117266023       | 8K  | F   | 1731             | 1   | 68  | 1,698 | -0.13 | 53  | -0.07 | 46   | 362  | 375  | 396              | 2.99 | 2.7  | 0.1  | 1   | 83 | 1.0  | 1.20  | 4.0   | 170 | WILSONVIEW DAIRY        | OR   |
| 677 DRB VALENTINO MYSTIC RIVER          | 067146623       | 3K  |     | 6623             | 1   | 70  | 1,294 | -0.03 | 55  | -0.01 | 43   | 422  | 399  | 389              | 3.01 | 2.8  | -0.7 | 1   | 85 | 1.4  | 2.38  | 7.8   | 170 | BAKER, DOROTHEA RILEY   | NY   |
| 678 SAND HILL VALENTINO KAYLA           | 067146665       | 3K  |     | 6665             | 1   | 70  | 1,072 | 0.02  | 52  | 0.03  | 43   | 433  | 386  | 354              | 3.02 | 2.8  | -0.7 | 1   | 86 | 2.0  | 3.33  | 8.9   | 170 | CHAMBERLAIN, DANA       | NY   |
| 679 HEARTLAND IMPULS REASON             | 067251974       | 6K  | F   | 1974             | 2   | 72  | 616   | 0.16  | 58  | 0.11  | 43   | 475  | 377  | 305              | 3.10 | 1.5  | 0.5  | 3   | 90 | 0.9  | 2.45  | 6.3   | 170 | INFINITY CATTLE COMPANY | KS   |
| 680 CDF ABE PASSION J24526              | 840003004261482 | 3K  |     | 24526            | 3   | 72  | 1,218 | 0.04  | 64  | -0.01 | 42   | 528  | 497  | 476              | 2.94 | 4.1  | -0.4 | 3   | 81 | -0.1 | -1.67 | 5.5   | 170 | C & S LIVESTOCK         | CA   |
| 681 GR FOREST GLEN ABES KATE            | 067282898       | 8K  | F   | 2898             | 1   | 71  | 1,126 | 0.08  | 67  | 0.00  | 42   | 452  | 414  | 387              | 2.96 | 2.2  | -0.9 | 2   | 85 | 0.8  | 2.89  | 6.1   | 170 | DIAMOND VALLEY DAIRY    | OR   |
| 682 PR HILMAR IMPULS 19613              | 067219613       | 3K  |     | 19613            | 4   | 71  | 828   | 0.09  | 53  | 0.07  | 42   | 521  | 446  | 389              | 2.98 | 3.6  | 0.8  | 2   | 81 | 0.2  | 0.13  | 4.5   | 170 | AHLEM, CHARLES          | CA   |
| 683 VALSIGNA KILOWATT 16695             | 117419672       | 3K  |     | 16695            | 1   | 70  | 1,262 | -0.06 | 46  | -0.02 | 41   | 428  | 408  | 397              | 2.94 | 2.9  | 0.7  | 1   | 83 | 0.6  | 1.25  | 8.2   | 170 | WICKSTROM DAIRIES, LP   | CA   |
| 684 HIGH LAWN IMPULS BIG TIME III       | 116120885       | 3K  |     | 9265             | 3   | 71  | 999   | 0.15  | 74  | 0.03  | 41   | 500  | 448  | 408              | 2.94 | 2.7  | -0.5 | 2   | 86 | 0.6  | 0.83  | 5.0   | 170 | HIGH LAWN FARM          | MA   |
| 685 VAN DELL MILLION 635                | 067029635       | 8K  | F   | 635              | 5   | 73  | 939   | 0.15  | 72  | 0.02  | 40   | 497  | 444  | 403              | 2.96 | 3.0  | -0.8 | 2   | 90 | 0.8  | 1.98  | 5.4   | 170 | VANDELL FARMS INC       | WI   |
| 686 CAL-MART IMPULS SELENE 2538         | 116488015       | 6K  | C   | 582              | 3   | 73  | 571   | 0.14  | 53  | 0.10  | 40   | 562  | 458  | 369              | 2.83 | 3.1  | 1.0  | 2   | 80 | 0.2  | 0.34  | 5.8   | 170 | MARTIN DAIRY LLC        | OR   |
| 687 CAL-MART BLADE KYRA 3904            | 117485257       | 3K  |     | 3904             | 1   | 67  | 973   | 0.15  | 74  | 0.02  | 38   | 485  | 443  | 414              | 2.99 | 2.7  | 0.0  | 1   | 86 | 1.5  | 2.01  | 5.2   | 170 | MARTIN DAIRY LLC        | OR   |
| 688 VALLEY OAKS ABES VERONICA           | 067282815       | 3K  |     | 2815             | 1   | 65  | 1,025 | 0.06  | 59  | 0.00  | 37   | 465  | 433  | 410              | 2.94 | 3.4  | -0.3 | 1   | 85 | 1.0  | 2.76  | 4.3   | 170 | ORISIO, RAYMOND         | CA   |
| 689 CAL-MART HENDRIX DACEY 5177         | 067385177       | 6K  | F   | 5177             | 1   | 67  | 1,023 | 0.13  | 72  | -0.01 | 36   | 440  | 412  | 393              | 2.97 | 2.0  | -0.3 | 0   | 79 | 1.4  | 3.34  | 6.6   | 170 | MARTIN DAIRY LLC        | OR   |
| 690 WILSONVIEW HEADLINE SONDI           | 117262953       | 3K  |     | 1724             | 1   | 68  | 1,244 | -0.10 | 37  | -0.05 | 35   | 409  | 420  | 440              | 3.07 | 4.7  | 0.6  | 1   | 84 | 1.7  | 4.06  | 6.4   | 170 | WILSONVIEW DAIRY        | OR   |
| 691 TOLLENAAR RENEGADE 6985             | 840003007844005 | 3K  |     | 6985             | 0   | 59  | 458   | 0.18  | 55  | 0.09  | 33   | 529  | 451  | 392              | 3.05 | 3.8  | 0.9  | 1   | 76 | 1.3  | 3.05  | 5.7   | 170 | TOLLENAAR JERSEYS       | CA   |
| 692 BW RENEGADE LACEY ET738-ET          | 117076705       | 50K | F   | 133              | 1   | 72  | 801   | 0.07  | 49  | 0.01  | 32   | 461  | 426  | 401              | 2.99 | 3.8  | 1.9  | 1   | 84 | 1.3  | 2.73  | 5.8   | 170 | BRENTWOOD FARMS         | CA   |
| 693 GR DEBOER TBONE M6658               | 116363727       | 3K  |     | 6658             | 3   | 74  | 629   | 0.05  | 37  | 0.05  | 32   | 470  | 410  | 360              | 2.91 | 4.0  | -0.4 | 2   | 81 | 1.8  | 5.18  | 9.8   | 170 | DEBOER, NICO            | TX   |
| 694 FOREST GLEN ZUMAS JAMES             | 067354848       | 3K  |     | 4848             | 0   | 56  | 353   | 0.20  | 52  | 0.06  | 24   | 558  | 495  | 439              | 2.86 | 5.0  | 1.1  | 0   | 79 | 0.3  | 2.61  | 3.8   | 170 | FOREST GLEN JERSEYS     | OR   |
| 695 MOLLY BROOK LOUIE FAVOR             | 067074446       | 8K  | F   | 8446             | 2   | 72  | 2,130 | -0.22 | 55  | -0.06 | 64   | 279  | 274  | 287              | 3.08 | -1.3 | -1.1 | 2   | 83 | 1.0  | 0.33  | 8.4   | 169 | GARDNER MARK & SHANNON  | PA   |
| 696 GR MM GANNON-PR 9358                | 117235085       | 8K  | C   | 9358             | 1   | 64  | 1,664 | -0.01 | 77  | 0.00  | 60   | 362  | 321  | 303              | 3.09 | 0.0  | -1.3 | 1   | 74 | 0.1  | -1.01 | 3.0   | 169 | MISTY MEADOW DAIRY      | OR   |
| 697 GR SUN VALLEY DALE MAGNET           | 116830915       | 3K  |     | 2377             | 3   | 70  | 1,582 | -0.12 | 50  | -0.04 | 50   | 383  | 365  | 360              | 2.97 | 2.0  | -0.6 | 2   | 86 | 0.4  | 1.78  | 4.6   | 169 | SUN VALLEY FARM         | OR   |
| 698 SR LOUIE STRUM                      | 117295715       | 3K  |     | 576              | 1   | 67  | 1,610 | -0.12 | 52  | -0.04 | 49   | 428  | 417  | 416              | 2.96 | 3.1  | 0.0  | 1   | 83 | 0.7  | -0.38 | 5.9   | 169 | PETERS, COLE LOGAN      | PA   |
| 699 FOREST GLEN IMPULS ALLIE            | 067282498       | 3K  |     | 2498             | 2   | 69  | 773   | 0.15  | 64  | 0.11  | 49   | 514  | 401  | 310              | 2.94 | 1.6  | 0.0  | 2   | 80 | 0.2  | -0.07 | 4.4   | 169 | BANSEN, DAN K           | OR   |
| 700 GR FARIA BROTHERS VALENTINO LYNCH   | 840003008535218 | 6K  | C   | 101850           | 0   | 53  | 1,569 | -0.11 | 50  | -0.05 | 47   | 393  | 390  | 397              | 3.00 | 2.5  | 0.1  | 0   |    | 0.7  | 0.44  | 1.8   | 169 | FARIA DAIRY             | AZ   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      |      | ----- TYPE ----- |     |      |     |    |      | Owner | ST   |     |                                     |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------|------------------|-----|------|-----|----|------|-------|------|-----|-------------------------------------|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS              | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                                 | GJPI |
| 701 GR FARIA BROTHERS RENEGADE 88445    | 840003004634084 | 6K  | F   | 88445            | 1   | 66  | 1,024 | 0.13  | 71  | 0.05  | 46   | 501  | 433  | 381  | 2.95             | 2.8 | 0.3  | 1   | 78 | 1.3  | -0.75 | 3.9  | 169 | FARIA BROS DAIRIES                  | TX   |
| 702 SHENANDOAH IMPULS GLEE-ET           | 116092252       | 8K  | C   | 534              | 3   | 71  | 1,093 | 0.13  | 74  | 0.03  | 44   | 487  | 441  | 414  | 3.09             | 2.7 | 0.0  | 2   | 83 | 0.6  | 0.04  | 5.0  | 169 | SHENANDOAH JERSEYS                  | MD   |
| 703 FOREST GLEN IMPULS DIVINE           | 067323630       | 3K  |     | 3630             | 1   | 62  | 862   | 0.08  | 55  | 0.07  | 44   | 566  | 489  | 432  | 3.04             | 4.2 | 0.9  | 1   | 78 | -0.1 | -1.88 | 3.5  | 169 | BANSEN, DAN K                       | OR   |
| 704 CLOVER PATCH LEGAL MOJITA           | 117676419       | 8K  | F   | 2104             | 1   | 66  | 1,583 | -0.17 | 40  | -0.07 | 43   | 364  | 372  | 384  | 2.91             | 2.3 | 0.3  | 0   | 73 | 1.3  | 3.26  | 5.0  | 169 | KOZAK, ALAN                         | OH   |
| 705 GR FARIA BROTHERS NASRALLAH 88715   | 840003004634354 | 6K  | C   | 88715            | 1   | 66  | 1,298 | 0.01  | 59  | -0.02 | 43   | 407  | 392  | 395  | 3.14             | 2.1 | 0.2  | 1   | 83 | 0.9  | 2.62  | 3.4  | 169 | FARIA BROS DAIRIES                  | TX   |
| 706 FOREST GLEN PLUS SHALIMAR           | 067323881       | 8K  | F   | 3881             | 1   | 69  | 1,261 | -0.05 | 48  | -0.01 | 43   | 373  | 345  | 325  | 2.91             | 1.2 | 0.1  | 1   | 78 | 1.5  | 3.56  | 5.6  | 169 | FOREST GLEN JERSEYS                 | OR   |
| 707 WOODSTOCK IMPULS RICKI              | 117474697       | 3K  |     | 6                | 1   | 63  | 895   | 0.12  | 63  | 0.06  | 43   | 501  | 434  | 387  | 3.04             | 2.8 | 0.4  | 1   | 74 | 0.4  | 0.13  | 3.4  | 169 | KOKOSKI, MOLLY                      | MA   |
| 708 FOREST GLEN JOSTENS PARKROSE        | 067323946       | 3K  |     | 3946             | 1   | 68  | 979   | 0.07  | 58  | 0.04  | 42   | 492  | 425  | 367  | 2.79             | 2.1 | -0.7 | 1   | 82 | 0.9  | 1.23  | 7.4  | 169 | BANSEN STANLEY K & DORA H           | OR   |
| 709 CINNAMON RIDGE MATINEE SPARKLER     | 115873735       | 8K  | F   | 732              | 3   | 73  | 1,360 | 0.00  | 63  | -0.05 | 40   | 495  | 481  | 467  | 2.77             | 3.5 | 0.3  | 1   | 79 | 0.0  | -1.09 | 5.7  | 169 | MAXWELL, EDWIN A                    | IA   |
| 710 BLUE MIST JEVON LEEAH               | 117475139       | 8K  | C   | 1290             | 1   | 70  | 1,144 | 0.10  | 70  | -0.01 | 40   | 533  | 500  | 471  | 2.84             | 3.5 | 0.6  | 1   | 78 | 0.4  | -0.84 | 6.3  | 169 | GOMES, EDDIE                        | OR   |
| 711 SR CHAMP GLENDA                     | 117303102       | 3K  |     | 553              | 1   | 72  | 1,115 | -0.14 | 25  | 0.00  | 40   | 411  | 380  | 359  | 2.96             | 3.0 | 0.6  | 1   | 84 | 1.6  | 2.95  | 10.8 | 169 | SPRUCE ROW FARM                     | PA   |
| 712 JER-Z-BOYZ LEGAL 37774-ET           | 117817975       | 6K  | F   | 37774            | 0   | 62  | 1,033 | 0.09  | 63  | 0.01  | 40   | 443  | 401  | 373  | 2.97             | 2.5 | -0.2 | 0   | 80 | 1.3  | 3.13  | 6.1  | 169 | JER-Z-BOYZ                          | CA   |
| 713 CORLEYS XXL PATTY                   | 115821587       | 3K  |     | 796              | 3   | 73  | 1,049 | 0.12  | 70  | 0.01  | 39   | 445  | 411  | 388  | 2.98             | 2.1 | 0.3  | 3   | 91 | 1.4  | 2.78  | 6.9  | 169 | BOYER, EMILY                        | OK   |
| 714 GR HI-LAND GRAMMER GANNON PRECIOUS  | 067162580       | 3K  |     | 2580             | 3   | 67  | 1,229 | -0.05 | 46  | -0.03 | 38   | 396  | 385  | 382  | 2.94             | 3.3 | 0.4  | 2   | 83 | 1.3  | 3.84  | 3.4  | 169 | GRAMMER, BENJAMIN P                 | OH   |
| 715 MULTI-ROSE TBONE 3362-ET            | 067163362       | 3K  |     | 3362             | 1   | 69  | 550   | 0.11  | 44  | 0.09  | 37   | 455  | 370  | 304  | 3.01             | 2.2 | 0.5  | 2   | 84 | 1.6  | 3.95  | 8.4  | 169 | MULTI ROSE JERSEYS INC              | IA   |
| 716 DUTCH HOLLOW VIRGIL DIONNE          | 067184421       | 8K  | F   | 4421             | 1   | 73  | 1,047 | 0.12  | 69  | 0.00  | 36   | 495  | 473  | 460  | 2.98             | 3.8 | -0.5 | 1   | 83 | 0.7  | 1.62  | 8.0  | 169 | COUCH, KARIN CHITTENDEN             | NY   |
| 717 CAL-MART LOTTO BAILIE 5109-ET       | 067385109       | 3K  |     | 5109             | 1   | 69  | 565   | 0.24  | 72  | 0.08  | 36   | 528  | 446  | 379  | 2.96             | 2.7 | 0.8  | 0   | 77 | 1.1  | 2.39  | 7.0  | 169 | MARTIN DAIRY LLC                    | OR   |
| 718 DUTCH HOLLOW LEGAL ELSIALEE         | 067184497       | 8K  | F   | 4497             | 1   | 71  | 1,128 | -0.16 | 21  | -0.02 | 35   | 415  | 401  | 393  | 2.92             | 4.3 | 1.0  | 0   | 79 | 1.9  | 4.71  | 7.5  | 169 | CHITTENDEN, EMILY JANE              | NY   |
| 719 CLOVER PATCH LEGAL PAISLEY          | 117305823       | 8K  | F   | 1965             | 2   | 71  | 854   | 0.08  | 54  | 0.03  | 35   | 530  | 481  | 441  | 2.88             | 4.4 | 0.2  | 1   | 85 | 1.6  | 2.37  | 7.1  | 169 | KOZAK, ALAN                         | OH   |
| 720 CAL-MART LYNDON DEVIN 5053          | 067125053       | 3K  |     | 5053             | 1   | 68  | 867   | -0.03 | 34  | 0.01  | 33   | 487  | 456  | 437  | 3.01             | 4.6 | 1.0  | 0   | 80 | 1.2  | 2.98  | 6.7  | 169 | MARTIN DAIRY LLC                    | OR   |
| 721 MS LEGAL 6584 G908                  | 117364619       | 3K  |     | 7908             | 1   | 67  | 1,097 | -0.01 | 49  | -0.03 | 32   | 446  | 441  | 438  | 2.89             | 3.6 | 0.8  | 1   | 82 | 1.1  | 3.34  | 6.3  | 169 | MOUNTAIN SHADOW DAIRY               | AZ   |
| 722 BUTTER BROOK LEGAL CHERRY           | 117224144       | 3K  |     | 152              | 1   | 68  | 981   | -0.10 | 25  | -0.02 | 32   | 436  | 413  | 395  | 2.87             | 4.6 | 0.7  | 1   | 85 | 1.5  | 4.75  | 6.4  | 169 | BETZ, DAVID A                       | OR   |
| 723 SUNSET CANYON RENEGADE BELLE 381-ET | 117574342       | 3K  |     | 50381            | 0   | 62  | 421   | 0.23  | 63  | 0.08  | 31   | 544  | 464  | 395  | 2.91             | 3.7 | 0.2  | 1   | 83 | 1.7  | 2.71  | 6.7  | 169 | INGURAN LLC DBA SEXING TECHNOLOGIES | TX   |
| 724 GOLDUST LEGION LEANNA               | 067161125       | 3K  |     | 1125             | 4   | 85  | 238   | 0.22  | 51  | 0.08  | 23   | 518  | 434  | 351  | 2.67             | 2.8 | 0.8  | 2   | 94 | 1.6  | 5.88  | 8.7  | 169 | LOURENZO, KEVIN B                   | ID   |
| 725 AHLEM ACTION BUTTONS 31973          | 066069357       | 8K  | F   | 31973            | 3   | 75  | 319   | 0.11  | 34  | 0.00  | 12   | 496  | 477  | 456  | 2.85             | 5.6 | 1.3  | 2   | 91 | 2.3  | 7.96  | 8.9  | 169 | AHLEM, WILLIAM JR                   | CA   |
| 726 GR FARIA BROTHERS SHAWNEE 63814     | 840003005642911 | 6K  | F   | 63814            | 2   | 60  | 1,824 | -0.14 | 58  | -0.07 | 50   | 415  | 423  | 437  | 2.91             | 2.0 | 1.0  | 0   |    | -0.4 | -2.76 | -0.8 | 168 | FARIA BROS DAIRIES                  | TX   |
| 727 GR JER-Z-BOYZ GANNON 29923          | 117102756       | 3K  |     | 29923            | 3   | 70  | 1,415 | 0.08  | 79  | 0.00  | 50   | 432  | 396  | 372  | 2.95             | 1.6 | -0.5 | 3   | 78 | 0.1  | -0.83 | 4.7  | 168 | JER-Z-BOYZ                          | CA   |
| 728 PR MULTI-ROSE FANTOM 15172          | 840003007417026 | 8K  | C   | 15172            | 0   | 62  | 1,355 | -0.06 | 52  | 0.01  | 50   | 395  | 357  | 337  | 3.07             | 1.3 | 0.0  | 1   | 84 | 0.7  | 1.34  | 8.1  | 168 | MULTI ROSE JERSEYS INC              | IA   |
| 729 GR FARIA BROTHERS VALENTINO BEADIE  | 840003008535438 | 6K  | C   | 102070           | 1   | 69  | 1,403 | -0.07 | 51  | -0.02 | 45   | 404  | 379  | 359  | 2.83             | 1.3 | -0.4 | 0   |    | 1.1  | 1.34  | 7.4  | 168 | FARIA DAIRY                         | AZ   |
| 730 GABYS RENEGADE BLISSFUL             | 117477355       | 50K | F   | 1922             | 1   | 71  | 1,229 | 0.08  | 74  | 0.00  | 45   | 448  | 409  | 382  | 2.95             | 1.2 | 0.0  | 1   | 86 | 0.8  | 0.54  | 7.3  | 168 | GABY JERSEY FARM                    | TN   |
| 731 NE ABE MELINDA 5448-ET              | 063641297       | 50K | F   | 5448             | 2   | 76  | 1,286 | -0.02 | 54  | -0.01 | 44   | 439  | 401  | 367  | 2.78             | 2.4 | -1.5 | 1   | 81 | 1.0  | 1.66  | 8.7  | 168 | HEINZ, LLOYD                        | WI   |
| 732 SMJ VALENTINO GALITEE               | 067361324       | 3K  |     | 1324             | 1   | 69  | 1,274 | -0.11 | 38  | -0.01 | 44   | 459  | 426  | 401  | 2.89             | 3.6 | -0.1 | 0   | 78 | 0.9  | 0.80  | 7.5  | 168 | SILVER MAPLE FARMS INC              | ME   |
| 733 D&E CHAMPS VIRTUE 22328-ET          | 067422328       | 3K  |     | 22328            | 1   | 69  | 1,242 | 0.00  | 57  | 0.00  | 44   | 413  | 377  | 353  | 2.94             | 1.8 | -1.3 | 0   | 83 | 1.2  | 2.17  | 9.2  | 168 | D & E JERSEYS                       | TX   |
| 734 PR HILMAR GANNON 29335              | 067329335       | 3K  |     | 29335            | 1   | 64  | 1,237 | 0.03  | 62  | 0.00  | 43   | 404  | 376  | 361  | 3.02             | 1.9 | -0.1 | 1   | 74 | 1.0  | 2.09  | 3.9  | 168 | AHLEM, CHARLES                      | CA   |
| 735 GABYS STONEY CHLOE                  | 117872310       | 8K  | F   | 1981             | 0   | 67  | 1,073 | 0.09  | 67  | 0.03  | 43   | 435  | 389  | 360  | 3.06             | 2.0 | -0.6 | 0   |    | 0.8  | 2.14  | 9.7  | 168 | GABY JERSEY FARM                    | TN   |
| 736 SUN VALLEY IMPULS IDABELLE          | 117109258       | 3K  |     | 2527             | 2   | 65  | 990   | 0.13  | 71  | 0.04  | 43   | 498  | 440  | 397  | 2.98             | 2.2 | -0.1 | 1   | 83 | 1.0  | 0.64  | 4.9  | 168 | SUN VALLEY FARM                     | OR   |
| 737 GR DEN-KEL DALE JUSTA-ET            | 067078678       | 3K  |     | 678              | 2   | 70  | 1,280 | -0.07 | 44  | -0.02 | 41   | 452  | 428  | 408  | 2.82             | 4.1 | -0.8 | 2   | 88 | 0.8  | 2.29  | 4.4  | 168 | KELLER, KIP A                       | NY   |
| 738 BARHAMS REGION BLAMELESS            | 117503481       | 3K  |     | 767              | 1   | 69  | 1,174 | 0.03  | 61  | 0.00  | 41   | 411  | 379  | 354  | 2.90             | 1.6 | -1.2 | 1   | 87 | 1.6  | 3.64  | 8.3  | 168 | BARHAM, RICHARD L                   | TN   |
| 739 MAINSTREAM VALENTINO SHINE          | 117263413       | 3K  |     | 117              | 1   | 71  | 1,240 | -0.01 | 56  | -0.02 | 40   | 427  | 406  | 392  | 2.92             | 2.8 | -1.0 | 1   | 86 | 1.2  | 2.68  | 8.8  | 168 | KORTUS RANDY & JANA                 | WA   |
| 740 CAL-MART VERMEER SAKAE 3281         | 117031672       | 8K  | F   | 3281             | 2   | 72  | 1,031 | 0.18  | 80  | 0.02  | 40   | 501  | 463  | 442  | 3.08             | 2.7 | 0.7  | 1   | 78 | 0.4  | -0.36 | 6.2  | 168 | MARTIN DAIRY LLC                    | OR   |
| 741 CAL-MART PLUS BABS 5100-ET          | 067385100       | 3K  |     | 5100             | 1   | 69  | 661   | 0.14  | 57  | 0.10  | 40   | 480  | 392  | 323  | 2.98             | 1.3 | 0.9  | 0   | 78 | 0.9  | 2.25  | 6.1  | 168 | MARTIN DAIRY LLC                    | OR   |
| 742 CAL-MART JEVON PHYLIS 2557          | 116488190       | 3K  |     | 1009             | 3   | 73  | 1,132 | 0.07  | 64  | -0.01 | 39   | 504  | 474  | 452  | 2.90             | 3.6 | 0.4  | 2   | 86 | 0.6  | -0.04 | 6.9  | 168 | MARTIN DAIRY LLC                    | OR   |
| 743 FANELLI SPARKY NETTIE 6821          | 117767832       | 8K  | F   | 6821             | 0   | 66  | 961   | 0.07  | 57  | 0.03  | 39   | 372  | 337  | 322  | 3.19             | 1.0 | -0.4 | 0   | 77 | 1.5  | 5.10  | 7.8  | 168 | FANELLI PHIL & FAMILY               | CA   |
| 744 GR HEINZ DALE MAID 6378             | 064221590       | 50K | F   | 6378             | 3   | 69  | 886   | 0.02  | 45  | 0.04  | 39   | 425  | 374  | 342  | 3.08             | 3.1 | 0.5  | 2   | 84 | 1.5  | 4.31  | 3.4  | 168 | HEINZ, LLOYD                        | WI   |
| 745 GABYS ABE AQUA                      | 116546331       | 3K  |     | 1668             | 2   | 72  | 861   | 0.13  | 64  | 0.04  | 38   | 505  | 451  | 409  | 2.96             | 3.3 | -0.3 | 3   | 90 | 0.9  | 1.10  | 8.1  | 168 | GABY, HENRY                         | TN   |
| 746 ALL LYNNS RENEGADE VARIETY          | 117423132       | 3K  |     | 1402             | 1   | 65  | 780   | 0.18  | 69  | 0.05  | 38   | 512  | 449  | 402  | 3.01             | 3.4 | -0.6 | 2   | 83 | 1.4  | 2.03  | 5.2  | 168 | ALLEN, DAVID                        | WI   |
| 747 RIVER VALLEY VALENTINO SALINA I-ET  | 117264900       | 50K | F   | 798              | 1   | 73  | 1,096 | -0.02 | 46  | -0.01 | 37   | 444  | 420  | 403  | 2.90             | 3.2 | -0.1 | 1   | 85 | 1.6  | 2.61  | 7.1  | 168 | RIVER VALLEY FARM                   | IL   |
| 748 HEARTLAND ARTIST TACOMA-ET          | 067282048       | 50K | F   | 2048             | 2   | 72  | 1,078 | 0.01  | 53  | -0.01 | 37   | 477  | 447  | 424  | 2.87             | 3.6 | 0.1  | 3   | 88 | 1.0  | 1.73  | 5.4  | 168 | HEARTLAND JERSEYS                   | KS   |
| 749 CASCADIA MIDNIGHT-ET                | 117480841       | 3K  |     | 1756             | 1   | 69  | 609   | 0.21  | 68  | 0.08  | 37   | 534  | 455  | 391  | 2.97             | 3.6 | 0.0  | 1   | 82 | 1.1  | 1.88  | 7.2  | 168 | CASCADIA FARM                       | OR   |
| 750 FOREST GLEN PLUS PEARL              | 067323543       | 3K  |     | 3543             | 1   | 70  | 1,544 | -0.19 | 34  | -0.10 | 36   | 394  | 419  | 440  | 2.79             | 3.2 | 0.8  | 1   | 88 | 1.6  | 2.76  | 8.3  | 168 | FOREST GLEN JERSEYS                 | OR   |

November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |  |      |
|--|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|--|------|
|  |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI  | GJPI |
| 751 BW VALENTINO HELEN ET784-ET        | 117400162       | 50K | F   | 1526  | 1   | 74  | 1,471 | -0.14 | 41  | -0.08 | 36   | 378  | 400  | 423  | 2.90 | 3.7  | -0.2 | 0   | 88 | 1.6  | 3.94  | 7.0   | 168 | BRENTWOOD FARMS                            | CA   |
| 752 DP VIBRANT MONICA                  | 067106948       | 3K  |     | 948   | 1   | 70  | 1,468 | -0.11 | 46  | -0.08 | 36   | 409  | 439  | 476  | 3.05 | 4.4  | -0.2 | 0   | 76 | 0.9  | 1.97  | 8.5   | 168 | DESERT PARK JERSEYS                        | OR   |
| 753 GR AHLEM GANNON SUNBRIGHT 32517    | 066621950       | 8K  | C   | 32517 | 3   | 73  | 1,278 | -0.13 | 35  | -0.05 | 36   | 385  | 383  | 383  | 2.87 | 3.2  | 0.7  | 2   | 87 | 0.7  | 4.47  | 6.1   | 168 | AHLEM, WILLIAM JR                          | CA   |
| 754 SMJ PLUS CALCIUM                   | 067361311       | 3K  |     | 1311  | 1   | 69  | 1,229 | -0.06 | 45  | -0.05 | 34   | 421  | 426  | 438  | 2.99 | 3.7  | 0.3  | 1   | 82 | 1.5  | 3.31  | 6.9   | 168 | SILVER MAPLE FARMS INC                     | ME   |
| 755 K&K JACINTO 112                    | 117199493       | 8K  | F   | 112   | 2   | 72  | 1,103 | -0.03 | 47  | -0.03 | 34   | 437  | 435  | 444  | 3.09 | 4.2  | 0.0  | 1   | 90 | 1.1  | 3.34  | 7.8   | 168 | WAKKER DAIRY                               | WI   |
| 756 CAL-MART HEADLINE JELENA 5158      | 067385158       | 6K  | F   | 5158  | 1   | 71  | 975   | 0.02  | 49  | -0.01 | 34   | 414  | 401  | 405  | 3.19 | 3.3  | 1.4  | 0   | 86 | 1.3  | 3.46  | 7.0   | 168 | MARTIN DAIRY LLC                           | OR   |
| 757 DUTCH HOLLOW RENEGADE MELLO        | 067184580       | 8K  | C   | 4580  | 1   | 70  | 810   | 0.13  | 61  | 0.03  | 34   | 481  | 431  | 391  | 2.90 | 2.8  | -0.6 | 0   | 74 | 2.0  | 4.36  | 7.3   | 168 | CHITTENDEN, PAUL C                         | NY   |
| 758 CDF KARBALA ABE N35716             | 840003006398245 | 3K  |     | 35716 | 1   | 69  | 1,090 | -0.03 | 45  | -0.04 | 33   | 465  | 449  | 432  | 2.77 | 4.3  | -0.6 | 1   | 82 | 1.3  | 3.35  | 7.9   | 168 | C & S LIVESTOCK                            | CA   |
| 759 GR FARIA BROTHERS RENEGADE 90470   | 840003008303580 | 6K  | F   | 90470 | 1   | 69  | 747   | 0.16  | 66  | 0.02  | 32   | 510  | 467  | 433  | 2.95 | 3.4  | 0.4  | 1   | 84 | 1.8  | 2.62  | 4.9   | 168 | FARIA BROS DAIRIES                         | TX   |
| 760 KANE-LANE JACINTO SOPHY            | 067141260       | 8K  | F   | 1260  | 3   | 74  | 965   | -0.09 | 28  | -0.03 | 31   | 461  | 446  | 436  | 2.91 | 5.3  | 0.1  | 3   | 92 | 1.8  | 4.47  | 9.3   | 168 | KOEHN, STEVEN B                            | OK   |
| 761 BW RENEGADE ESSIE W544             | 117694644       | 6K  | C   | 311   | 0   | 65  | 490   | 0.25  | 71  | 0.07  | 31   | 518  | 448  | 393  | 3.00 | 2.8  | 0.8  | 0   | 78 | 1.4  | 3.15  | 6.8   | 168 | BRENTWOOD FARMS                            | CA   |
| 762 AHLEM LEGAL CLOVER 35933           | 069043139       | 8K  | F   | 35933 | 1   | 71  | 868   | -0.08 | 24  | 0.00  | 30   | 394  | 375  | 368  | 3.05 | 3.7  | 1.0  | 1   | 83 | 1.5  | 6.64  | 7.3   | 168 | AHLEM, WILLIAM JR                          | CA   |
| 763 LEGACY 1465                        | 116783080       | 8K  | F   | 1465  | 2   | 74  | 717   | 0.08  | 47  | 0.02  | 29   | 481  | 447  | 421  | 2.96 | 3.7  | 1.4  | 2   | 88 | 1.0  | 3.29  | 6.7   | 168 | ALBRIGHT ALLEN E & FAMILY                  | OH   |
| 764 YOSEMITE SPARKY IMPULS N22354      | 840003006458412 | 3K  |     | 22354 | 1   | 69  | 442   | 0.26  | 69  | 0.07  | 29   | 513  | 441  | 382  | 2.93 | 2.9  | 0.2  | 1   | 83 | 1.8  | 3.75  | 7.1   | 168 | BARLASS, BRETT A                           | CA   |
| 765 SUNSET CANYON ALLSTAR J MAID 45-ET | 117639964       | 3K  |     | 2045  | 0   | 61  | 331   | 0.38  | 84  | 0.09  | 29   | 617  | 531  | 457  | 2.89 | 4.4  | -0.2 | 0   | 87 | 1.2  | 1.81  | 6.0   | 168 | SILVA, ERIC LEONARD                        | OR   |
| 766 AHLEM LEGAL LILAC 35794            | 069043000       | 8K  | F   | 35794 | 1   | 70  | 631   | -0.02 | 25  | 0.03  | 28   | 412  | 367  | 329  | 2.89 | 3.3  | 1.2  | 1   | 85 | 1.8  | 6.88  | 6.8   | 168 | AHLEM, WILLIAM JR                          | CA   |
| 767 SUN VALLEY BUNGY KORDELIA          | 115700471       | 3K  |     | 2004  | 3   | 73  | 568   | -0.01 | 25  | 0.04  | 28   | 530  | 476  | 428  | 2.85 | 5.6  | 2.0  | 3   | 91 | 1.1  | 2.70  | 5.8   | 168 | SEALS THOMAS L & JENNIE L                  | OR   |
| 768 AVI-LANCHE CELEBRITY SILVE 22002   | 067422002       | 3K  |     | 22002 | 1   | 71  | 1,102 | -0.12 | 26  | -0.07 | 27   | 443  | 455  | 463  | 2.80 | 5.4  | 0.8  | 1   | 84 | 1.7  | 4.41  | 9.0   | 168 | AVILA RICHARD & JENNIFER M                 | TX   |
| 769 VALSIGNA SPARKY 17510              | 117611832       | 3K  |     | 17510 | 1   | 70  | 641   | 0.10  | 48  | 0.02  | 27   | 475  | 436  | 403  | 2.89 | 4.0  | 0.2  | 1   | 78 | 1.4  | 4.81  | 8.6   | 168 | WICKSTROM DAIRIES, LP                      | CA   |
| 770 CAL-MART MATINEE PRISS 9879        | 115789645       | 8K  | F   | 694   | 4   | 73  | 556   | 0.26  | 74  | 0.03  | 27   | 596  | 542  | 492  | 2.81 | 4.3  | 1.9  | 2   | 82 | -0.1 | -0.07 | 4.8   | 168 | MARTIN DAIRY LLC                           | OR   |
| 771 DEBOER ACTION M7482                | 116865872       | 8K  | F   | 7482  | 3   | 76  | 619   | 0.02  | 31  | 0.02  | 26   | 436  | 404  | 381  | 2.99 | 3.8  | 1.2  | 2   | 88 | 2.3  | 6.12  | 9.2   | 168 | DEBOER, NICO                               | TX   |
| 772 PR FARIA BROTHERS VENERABLE 65070  | 840003006263521 | 6K  | F   | 65070 | 2   | 55  | 2,099 | -0.10 | 77  | -0.12 | 53   | 349  | 373  | 399  | 2.82 | -0.3 | -1.3 | 0   |    | 0.4  | 0.06  | -0.7  | 167 | FARIA DAIRY                                | AZ   |
| 773 MS LEGAL 4481 G874                 | 117327191       | 8K  | C   | 7874  | 1   | 71  | 1,803 | -0.22 | 41  | -0.09 | 48   | 374  | 388  | 408  | 2.92 | 2.6  | 0.2  | 1   | 77 | 1.1  | 0.72  | 6.7   | 167 | MOUNTAIN SHADOW DAIRY                      | AZ   |
| 774 HEARTLAND KWARTZ BETHANY 2383      | 067262383       | 8K  | F   | 23830 | 1   | 69  | 1,422 | -0.10 | 46  | -0.01 | 48   | 358  | 336  | 332  | 3.11 | 1.5  | -0.3 | 0   | 83 | 1.4  | 2.19  | 6.1   | 167 | MEIER, TONY                                | KS   |
| 775 HIGHLAND IMPULS R SPICE            | 067222784       | 3K  |     | 2784  | 1   | 67  | 1,203 | 0.06  | 65  | 0.02  | 47   | 446  | 400  | 371  | 3.06 | 2.2  | 0.0  | 0   | 81 | 0.7  | 0.18  | 6.5   | 167 | HIGHLAND FARMS                             | ME   |
| 776 VALSIGNA VICTOR 17190              | 117551738       | 3K  |     | 17190 | 1   | 70  | 1,276 | 0.00  | 59  | -0.01 | 46   | 431  | 400  | 386  | 3.06 | 2.3  | -0.3 | 1   | 75 | 0.7  | 0.17  | 8.7   | 167 | WICKSTROM DAIRIES, LP                      | CA   |
| 777 HIGH LAWN VIBRANT VICTORIOUS-ET    | 117567535       | 3K  |     | 12554 | 1   | 69  | 1,482 | -0.08 | 52  | -0.04 | 45   | 422  | 410  | 406  | 2.90 | 3.1  | -0.2 | 0   | 81 | 0.1  | -0.39 | 7.3   | 167 | SNOW WESLEY & BRENDA                       | VT   |
| 778 GR JARS OF CLAY BOLD ANNIE         | 067243279       | 8K  | F   | 3279  | 1   | 70  | 1,459 | -0.04 | 60  | -0.03 | 45   | 422  | 402  | 386  | 2.82 | 2.0  | -0.6 | 1   | 75 | 1.0  | 1.01  | 6.3   | 167 | RANCHO TERESITA DAIRY                      | CA   |
| 779 MFV IMPULS IMP                     | 067241440       | 3K  |     | 1440  | 3   | 72  | 993   | 0.10  | 64  | 0.05  | 45   | 502  | 444  | 408  | 3.13 | 3.8  | -0.5 | 2   | 80 | 0.5  | 0.19  | 6.2   | 167 | MASON, P THOMAS                            | MD   |
| 780 MS RESTORE 3322 F504               | 116429818       | 8K  | F   | 6504  | 3   | 76  | 1,628 | -0.10 | 54  | -0.08 | 42   | 401  | 417  | 433  | 2.85 | 2.5  | 0.4  | 2   | 81 | 0.5  | 0.07  | 9.0   | 167 | DESERT PARK JERSEYS & MOUNTAIN SHADOW DAIR | OR   |
| 781 ALL LYNNS CELEBRITY VANITY-ET      | 117114214       | 3K  |     | 1333  | 1   | 71  | 1,574 | -0.07 | 57  | -0.07 | 42   | 410  | 418  | 429  | 2.87 | 3.0  | -1.0 | 1   | 81 | 1.2  | 1.39  | 8.6   | 167 | ALLEN, DAVID                               | WI   |
| 782 CAL-MART SENECA CORTNEY 3919       | 117513992       | 3K  |     | 3919  | 1   | 68  | 1,433 | -0.13 | 42  | -0.05 | 42   | 390  | 388  | 397  | 3.01 | 3.4  | -0.2 | 1   | 71 | 0.4  | 1.42  | 7.2   | 167 | MARTIN DAIRY LLC                           | OR   |
| 783 GABYS VERNON ASTER                 | 117443707       | 3K  |     | 411   | 1   | 67  | 941   | 0.14  | 68  | 0.04  | 42   | 461  | 403  | 362  | 3.02 | 2.1  | -0.9 | 0   |    | 1.3  | 2.09  | 7.1   | 167 | D&D JERSEYS & PHILLIPS DENNIS              | WI   |
| 784 WINDY ACRES GATSBY BEAUTY          | 067128546       | 3K  |     | 546   | 1   | 65  | 918   | -0.01 | 40  | 0.05  | 41   | 444  | 390  | 354  | 3.06 | 3.8  | -0.2 | 1   | 82 | 0.5  | 2.29  | 4.6   | 167 | GARDNER MARK & SHANNON                     | PA   |
| 785 PR VALSIGNA KARBALA 18268          | 117728938       | 6K  | C   | 18268 | 1   | 69  | 1,245 | 0.01  | 58  | -0.02 | 40   | 381  | 366  | 362  | 3.01 | 1.9  | -0.8 | 0   |    | 1.5  | 4.06  | 6.6   | 167 | WICKSTROM DAIRIES, LP                      | CA   |
| 786 AHLEM LEGAL EVE 37811              | 070049285       | 8K  | F   | 37811 | 0   | 62  | 1,202 | -0.12 | 33  | -0.02 | 40   | 366  | 347  | 339  | 3.00 | 2.6  | 1.4  | 0   | 76 | 1.5  | 3.21  | 5.4   | 167 | AHLEM, WILLIAM JR                          | CA   |
| 787 GR FARIA BROTHERS PROTECTOR PHELPS | 840003006317809 | 6K  | F   | 59259 | 2   | 72  | 1,172 | 0.06  | 64  | -0.01 | 39   | 422  | 404  | 398  | 3.02 | 2.4  | 0.3  | 1   | 74 | 0.8  | 2.08  | 6.3   | 167 | FARIA BROS DAIRIES                         | TX   |
| 788 HIGHLAND IMPULS D DELORES          | 067222741       | 8K  | F   | 2741  | 1   | 69  | 828   | 0.08  | 52  | 0.04  | 38   | 497  | 443  | 406  | 3.04 | 3.2  | 1.6  | 1   | 77 | 0.3  | 0.11  | 6.3   | 167 | HIGHLAND FARMS                             | ME   |
| 789 VALSIGNA SPARKY 17239              | 117552186       | 3K  |     | 17239 | 1   | 70  | 1,087 | 0.01  | 54  | -0.01 | 37   | 431  | 408  | 393  | 2.95 | 2.3  | 0.3  | 1   | 67 | 0.3  | 2.07  | 7.7   | 167 | WICKSTROM DAIRIES, LP                      | CA   |
| 790 DUTCH HOLLOW VALENTINO EVANALEE-ET | 067184314       | 8K  | F   | 4314  | 1   | 72  | 979   | -0.03 | 40  | 0.00  | 35   | 469  | 427  | 386  | 2.74 | 4.0  | -1.3 | 1   | 80 | 1.4  | 3.52  | 7.8   | 167 | CHITTENDEN, EMILY JANE                     | NY   |
| 791 JER-Z-BOYZ PLUS 36256              | 118529206       | 8K  | F   | 36256 | 1   | 70  | 992   | 0.11  | 65  | -0.01 | 34   | 496  | 473  | 455  | 2.91 | 3.7  | 0.4  | 0   | 81 | 1.1  | 1.36  | 7.8   | 167 | JER-Z-BOYZ                                 | CA   |
| 792 AHLEM LEGAL RILEY 35896            | 069043102       | 8K  | C   | 35896 | 1   | 70  | 910   | 0.00  | 41  | 0.01  | 34   | 434  | 405  | 388  | 3.01 | 3.2  | 0.7  | 1   | 85 | 1.8  | 4.47  | 6.9   | 167 | AHLEM, WILLIAM JR                          | CA   |
| 793 DALHART KARABALA 25446             | 067325446       | 3K  |     | 25446 | 2   | 74  | 1,336 | -0.05 | 53  | -0.08 | 33   | 434  | 452  | 470  | 2.89 | 3.6  | 0.1  | 3   | 86 | 1.1  | 2.55  | 9.1   | 167 | AHLEM, MARK                                | CA   |
| 794 AVI-LANCHE LAWSON SOPHINA 5414     | 067375414       | 8K  | C   | 5414  | 1   | 71  | 967   | -0.05 | 36  | -0.01 | 33   | 404  | 385  | 374  | 2.98 | 3.2  | 0.1  | 1   | 83 | 2.1  | 5.46  | 8.4   | 167 | AVILA RICHARD & JENNIFER M                 | TX   |
| 795 PR FARIA BROTHERS APPARTION 60928  | 840003004414935 | 3K  |     | 60928 | 3   | 65  | 763   | 0.17  | 68  | 0.03  | 33   | 532  | 477  | 427  | 2.80 | 3.1  | 0.3  | 0   | 78 | 0.6  | 1.50  | 3.1   | 167 | FARIA DAIRY                                | AZ   |
| 796 OOMSDALE GALEN CELEBRITY GLORY     | 067080495       | 50K | F   | 495   | 2   | 74  | 709   | 0.12  | 56  | 0.04  | 33   | 483  | 428  | 384  | 2.94 | 3.3  | 0.4  | 2   | 88 | 1.7  | 2.94  | 8.3   | 167 | OOMS, MICHAEL AREND                        | NY   |
| 797 GR GOOSE QUEENIE 743               | 117400724       | 3K  |     | 196   | 1   | 64  | 707   | 0.00  | 32  | 0.04  | 33   | 497  | 435  | 377  | 2.77 | 4.7  | 0.6  | 1   | 82 | 1.8  | 3.23  | 2.6   | 167 | MOYE, NEIL                                 | NC   |
| 798                                    |                 |     |     |       |     |     |       |       |     |       |      |      |      |      |      |      |      |     |    |      |       |       |     |  |      |



November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                  | Reg #           | GT | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |     | Owner | ST    |      |                                |                            |      |
|---------------------------------------|-----------------|----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|-----|-------|-------|------|--------------------------------|----------------------------|------|
|                                       |                 |    |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS  |       |       | PTAT | JUI                            | GFI                        | GJPI |
| 801 BW RENEGADE ASHLEY W356           | 117594140       | 3K |     | 1141   | 1   | 69  | 816   | 0.13  | 62  | 0.01  | 31   | 489  | 449  | 410  | 2.79 | 2.7 | 1.0  | 0   | 78  | 1.2   | 2.64  | 6.0  | 167                            | BRENTWOOD FARMS            | CA   |
| 802 VALSIGNA SPARKY 17634             | 117613021       | 3K |     | 17634  | 1   | 69  | 784   | 0.09  | 53  | 0.01  | 31   | 406  | 373  | 349  | 2.97 | 1.8 | 0.2  | 0   | 82  | 1.9   | 5.52  | 10.0 | 167                            | WICKSTROM DAIRIES, LP      | CA   |
| 803 GR FARIA BROTHERS IMPULS 100843   | 840003008321950 | 6K | F   | 100843 | 1   | 58  | 362   | 0.25  | 62  | 0.10  | 31   | 568  | 478  | 398  | 2.85 | 3.8 | 0.5  | 0   | 0.9 | 2.84  | 0.4   | 167  | FARIA DAIRY                    | AZ                         |      |
| 804 FARIA BROTHERS RENEGADE 95521     | 840003008936009 | 8K | F   | 95521  | 1   | 70  | 570   | 0.16  | 57  | 0.05  | 30   | 510  | 451  | 400  | 2.89 | 3.7 | 0.8  | 0   | 1.2 | 2.91  | 6.3   | 167  | FARIA BROS DAIRIES             | TX                         |      |
| 805 CAL-MART ZUMA SALLY 5230          | 067245230       | 6K | F   | 5230   | 1   | 62  | 543   | 0.11  | 45  | 0.06  | 29   | 521  | 459  | 406  | 2.89 | 4.9 | 0.9  | 0   | 83  | 0.8   | 3.09  | 3.3  | 167                            | MARTIN DAIRY LLC           | OR   |
| 806 RFF LEGACY CAMILLA                | 067125523       | 3K |     | 523    | 1   | 69  | 383   | 0.01  | 21  | 0.07  | 27   | 498  | 432  | 379  | 3.00 | 5.1 | 1.6  | 1   | 84  | 1.3   | 4.28  | 6.9  | 167                            | RICHARDSON FAMILY FARM     | VT   |
| 807 AHLEM TBONE GEM 33016             | 066622449       | 8K | C   | 33016  | 2   | 75  | 98    | 0.19  | 40  | 0.12  | 26   | 544  | 444  | 358  | 2.93 | 4.3 | 0.5  | 3   | 88  | 2.1   | 5.18  | 10.2 | 167                            | AHLEM, WILLIAM JR          | CA   |
| 808 DUPAT CELEBRITY 8761              | 067148761       | 3K |     | 8761   | 0   | 64  | 703   | 0.07  | 47  | 0.00  | 24   | 496  | 474  | 453  | 2.87 | 5.2 | 0.4  | 0   | 80  | 1.8   | 4.48  | 8.3  | 167                            | WICKSTROM JERSEY FARMS INC | CA   |
| 809 LIVE OAK KARBALA 12576            | 116944773       | 6K | F   | 1528   | 2   | 74  | 657   | 0.11  | 51  | -0.01 | 23   | 449  | 421  | 392  | 2.77 | 3.1 | 0.1  | 1   | 91  | 1.6   | 6.07  | 7.8  | 167                            | KISST, JENAVIEVE M         | CA   |
| 810 K&K MILITIA 3445                  | 067203445       | 3K |     | 520    | 1   | 68  | 982   | 0.02  | 48  | 0.09  | 52   | 429  | 347  | 298  | 3.28 | 1.6 | 1.2  | 0   | 0.5 | 0.03  | 6.1   | 166  | D&D JERSEYS AND PHILLIPS DUANE | WI                         |      |
| 811 GR JVB RED HOT GRETEL             | 840003007066013 | 3K |     | 114    | 2   | 67  | 1,656 | -0.08 | 62  | -0.03 | 51   | 352  | 340  | 338  | 2.95 | 0.8 | 0.4  | 1   | 81  | 0.6   | 0.08  | 7.0  | 166                            | VANBUSKIRK JIM & JANET     | MI   |
| 812 VALSIGNA AMITY 17963              | 117726338       | 3K |     | 17963  | 0   | 63  | 1,566 | -0.16 | 41  | -0.03 | 50   | 363  | 357  | 372  | 3.19 | 2.7 | 0.3  | 0   | 84  | 1.1   | 1.22  | 6.8  | 166                            | WICKSTROM DAIRIES, LP      | CA   |
| 813 GR BW RENEGADE AIEKA U467         | 117092116       | 3K |     | 121    | 2   | 68  | 1,362 | 0.00  | 65  | 0.00  | 47   | 433  | 404  | 390  | 3.04 | 2.1 | -0.3 | 2   | 85  | 1.3   | -0.01 | 7.8  | 166                            | RANCHO TERESITA DAIRY      | CA   |
| 814 O.F. REACTION GRETA               | 067126415       | 3K |     | 6415   | 4   | 74  | 1,668 | -0.28 | 23  | -0.07 | 46   | 315  | 330  | 356  | 3.08 | 2.8 | -0.2 | 2   | 91  | 1.2   | 3.26  | 7.7  | 166                            | OWENS FARMS INC            | WI   |
| 815 BOYD-LEE VALENTINO JACKIE TOO     | 117371668       | 3K |     | 394    | 1   | 67  | 1,376 | -0.11 | 42  | -0.03 | 43   | 385  | 369  | 361  | 2.94 | 2.5 | -0.8 | 0   | 1.6 | 2.98  | 7.0   | 166  | BOYD, TYLER L                  | TN                         |      |
| 816 FAIRWAY GOLDA BELLO               | 067671176       | 8K | F   | 1176   | 0   | 62  | 1,309 | -0.11 | 40  | -0.03 | 42   | 354  | 339  | 333  | 2.97 | 2.4 | -0.2 | 0   | 80  | 1.3   | 3.21  | 7.9  | 166                            | FAIRWAY JERSEYS            | VA   |
| 817 FOREST GLEN LEGAL FLORENCE        | 067354429       | 8K | F   | 4429   | 1   | 69  | 1,284 | -0.10 | 41  | -0.03 | 42   | 375  | 356  | 347  | 2.97 | 2.0 | 0.9  | 0   | 78  | 1.3   | 2.38  | 7.4  | 166                            | BANSEN STANLEY K & DORA H  | OR   |
| 818 GR FARIA BROTHERS BLAISE 102983   | 840003008536351 | 6K | F   | 102983 | 1   | 68  | 1,451 | -0.07 | 51  | -0.05 | 41   | 440  | 433  | 427  | 2.80 | 3.2 | 0.1  | 1   | 82  | 0.8   | 1.01  | 6.0  | 166                            | FARIA DAIRY                | AZ   |
| 819 CAL-MART VIRGIL CHANTE 5245-ET    | 067245245       | 6K | F   | 5245   | 1   | 69  | 1,049 | 0.01  | 50  | 0.02  | 41   | 471  | 430  | 404  | 3.04 | 3.5 | 0.3  | 0   | 72  | 0.5   | 0.43  | 5.6  | 166                            | MARTIN DAIRY LLC           | OR   |
| 820 GR FARIA BROTHERS RENEGADE 101026 | 840003008534394 | 3K |     | 101026 | 1   | 61  | 954   | 0.05  | 54  | 0.03  | 41   | 447  | 391  | 351  | 2.98 | 2.7 | -0.1 | 1   | 81  | 0.9   | 2.11  | 2.7  | 166                            | FARIA DAIRY                | AZ   |
| 821 HIGH LAWN VIBRANT GLORIOUS-ET     | 117567544       | 3K |     | 12555  | 1   | 69  | 1,386 | -0.11 | 41  | -0.04 | 40   | 428  | 422  | 420  | 2.87 | 3.7 | -0.3 | 0   | 80  | 0.7   | 1.29  | 7.2  | 166                            | HIGH LAWN FARM             | MA   |
| 822 JCJ SPARKY 23419                  | 840003008217001 | 8K | F   | 23419  | 1   | 70  | 1,300 | 0.00  | 59  | -0.03 | 40   | 394  | 386  | 388  | 3.00 | 1.6 | -0.8 | 0   | 88  | 1.3   | 3.21  | 8.4  | 166                            | BROWN, MIKE                | UT   |
| 823 HILMAR BENEFACOR 25822            | 067325822       | 6K | F   | 25822  | 2   | 74  | 1,209 | 0.00  | 56  | -0.02 | 40   | 470  | 441  | 417  | 2.85 | 2.9 | -0.8 | 2   | 84  | 1.2   | 1.38  | 7.5  | 166                            | AHLEM, CHARLES             | CA   |
| 824 JER-Z-BOYZ HALLBROOK 30905        | 117496992       | 3K |     | 30905  | 2   | 71  | 1,127 | 0.07  | 64  | 0.00  | 40   | 398  | 367  | 346  | 2.95 | 1.3 | -0.2 | 3   | 90  | 1.3   | 3.32  | 6.5  | 166                            | JER-Z-BOYZ                 | CA   |
| 825 PR VALSIGNA SPARKY 17446          | 117611234       | 3K |     | 17446  | 1   | 67  | 958   | 0.03  | 50  | 0.03  | 39   | 398  | 352  | 320  | 3.01 | 1.4 | 0.2  | 0   | 1.2 | 3.15  | 5.3   | 166  | WICKSTROM DAIRIES, LP          | CA                         |      |
| 826 DP VALENTINO ELSPEETH 1000        | 067791000       | 3K |     | 1000   | 1   | 69  | 1,078 | -0.13 | 25  | -0.01 | 37   | 395  | 375  | 367  | 3.03 | 4.0 | -0.1 | 1   | 84  | 2.1   | 4.87  | 8.7  | 166                            | DESERT PARK JERSEYS        | OR   |
| 827 TOLLENAAR VIBRANT 7190            | 840003007844210 | 3K |     | 7190   | 0   | 64  | 1,069 | 0.03  | 56  | 0.00  | 37   | 475  | 442  | 411  | 2.80 | 3.3 | -0.8 | 0   | 80  | 0.6   | 1.38  | 8.4  | 166                            | TOLLENAAR JERSEYS          | CA   |
| 828 PR FARIA BROTHERS MAXIMUM 57813   | 840003006316363 | 6K | F   | 57813  | 2   | 69  | 1,008 | 0.14  | 73  | 0.00  | 37   | 479  | 443  | 413  | 2.87 | 2.7 | -0.4 | 2   | 79  | 1.1   | 1.82  | 6.7  | 166                            | FARIA BROS DAIRIES         | TX   |
| 829 GR CAL-MART GANNON MARBY 3354     | 117094435       | 3K |     | 3354   | 2   | 70  | 1,003 | 0.12  | 69  | 0.01  | 37   | 491  | 450  | 416  | 2.86 | 2.9 | 0.4  | 2   | 73  | 0.5   | 0.91  | 5.5  | 166                            | MARTIN DAIRY LLC           | OR   |
| 830 VTF MILO 4588 VICKY               | 069545566       | 6K | C   | 4905   | 1   | 66  | 913   | 0.00  | 42  | 0.02  | 37   | 448  | 411  | 391  | 3.09 | 4.3 | 1.0  | 0   | 82  | 1.3   | 2.41  | 5.6  | 166                            | VA TECH FOUNDATION         | VA   |
| 831 HILMAR ALLSTAR 18241              | 067218241       | 3K |     | 18241  | 4   | 72  | 588   | 0.29  | 82  | 0.08  | 37   | 519  | 431  | 356  | 2.86 | 1.7 | -0.7 | 3   | 90  | 1.0   | 2.00  | 5.8  | 166                            | AHLEM, MARK                | CA   |
| 832 JCJ IMPULS 19226                  | 840003005083951 | 3K |     | 19226  | 3   | 69  | 963   | -0.02 | 39  | 0.01  | 36   | 511  | 468  | 431  | 2.82 | 4.9 | 0.8  | 2   | 83  | 0.3   | 0.87  | 3.5  | 166                            | AHLEM, CAROL               | CA   |
| 833 FARIA BROTHERS VALENTINO MEGAN    | 840003009425077 | 6K | F   | 103366 | 0   | 60  | 958   | -0.01 | 42  | 0.01  | 36   | 439  | 400  | 371  | 2.92 | 3.7 | -0.2 | 0   | 1.7 | 4.13  | 3.8   | 166  | FARIA DAIRY                    | AZ                         |      |
| 834 GR RED TOP KILOWATT 16176         | 067516176       | 8K | F   | 16176  | 1   | 72  | 683   | 0.10  | 52  | 0.05  | 35   | 479  | 416  | 366  | 2.94 | 3.0 | 1.1  | 1   | 75  | 0.2   | 1.79  | 7.9  | 166                            | RED TOP JERSEYS            | CA   |
| 835 ORTHRIDGE SEVILLE LIBEE           | 116943642       | 3K |     | 549    | 2   | 70  | 1,138 | -0.13 | 27  | -0.03 | 34   | 404  | 397  | 396  | 2.93 | 4.2 | 0.1  | 0   | 82  | 1.7   | 4.94  | 8.7  | 166                            | ORTHRIDGE FARMS            | WI   |
| 836 HILMAR SPARKY 29938               | 067329938       | 6K | F   | 29938  | 1   | 72  | 893   | 0.07  | 54  | 0.01  | 34   | 463  | 434  | 418  | 3.06 | 3.2 | 0.4  | 1   | 79  | 0.4   | 1.89  | 8.1  | 166                            | AHLEM, CHARLES             | CA   |
| 837 PR DP IMPROVE VICKIE 345          | 116322933       | 3K |     | 345    | 3   | 69  | 700   | 0.10  | 51  | 0.06  | 34   | 487  | 433  | 395  | 3.06 | 3.7 | 1.2  | 2   | 82  | 0.7   | 2.22  | 4.0  | 166                            | DESERT PARK JERSEYS        | OR   |
| 838 GR AHLEM GANNON PRINCESS 32424    | 066621857       | 3K |     | 32424  | 3   | 71  | 758   | 0.09  | 53  | 0.04  | 33   | 453  | 400  | 355  | 2.86 | 2.6 | 0.0  | 2   | 85  | 1.7   | 4.76  | 7.0  | 166                            | AHLEM, WILLIAM JR          | CA   |
| 839 AHLEM LEGAL GEM 37720             | 070049194       | 6K | C   | 37720  | 1   | 68  | 538   | 0.09  | 42  | 0.08  | 33   | 480  | 412  | 363  | 3.07 | 3.8 | 0.7  | 0   | 75  | 2.0   | 4.21  | 7.2  | 166                            | AHLEM, WILLIAM JR          | CA   |
| 840 DAR VIEW LOUIE HOPE               | 067074214       | 3K |     | 214    | 4   | 73  | 1,062 | -0.03 | 44  | -0.04 | 32   | 475  | 460  | 445  | 2.81 | 4.7 | 0.6  | 2   | 91  | 0.7   | 2.56  | 5.5  | 166                            | DAR-VIEW FARM              | NY   |
| 841 HILMAR CELEBRITY 26191            | 067326191       | 3K |     | 26191  | 2   | 74  | 885   | 0.12  | 64  | 0.00  | 32   | 481  | 443  | 408  | 2.79 | 2.8 | -0.2 | 3   | 91  | 1.5   | 2.85  | 10.2 | 166                            | BOER, GERRET               | TX   |
| 842 MVF LOTTO MARI GOLD 1784          | 067181784       | 3K |     | 1784   | 1   | 69  | 796   | 0.11  | 55  | -0.04 | 21   | 548  | 541  | 527  | 2.71 | 5.8 | 0.9  | 1   | 83  | 1.1   | 3.14  | 7.1  | 166                            | BAKER, DOROTHEA RILEY      | NY   |
| 843 CAL-MART ZUMA COLINDA 5273-ET     | 067245273       | 6K | F   | 5273   | 1   | 66  | -36   | 0.17  | 28  | 0.09  | 15   | 551  | 480  | 416  | 2.88 | 6.7 | 1.0  | 0   | 82  | 1.5   | 6.41  | 4.4  | 166                            | MARTIN DAIRY LLC           | OR   |
| 844 GR JOVINA DRUMMER ELSIE           | 116735975       | 8K | F   | 878    | 2   | 70  | 1,921 | -0.21 | 47  | -0.10 | 50   | 361  | 381  | 407  | 2.94 | 1.7 | -0.6 | 3   | 86  | 1.2   | 0.37  | 6.1  | 165                            | MEIER, TONY                | KS   |
| 845 GR FARIA BROTHERS IMPULS 100621   | 840003008321728 | 6K | F   | 100621 | 1   | 58  | 1,097 | 0.11  | 72  | 0.05  | 49   | 424  | 362  | 323  | 3.13 | 0.8 | 0.2  | 0   | 0.4 | -0.13 | 1.8   | 165  | FARIA DAIRY                    | AZ                         |      |
| 846 GR MOLLY BROOK DALE UNIQUE        | 067074460       | 3K |     | 460    | 2   | 70  | 1,469 | -0.10 | 48  | -0.04 | 45   | 406  | 394  | 391  | 2.94 | 2.8 | 0.1  | 2   | 80  | 1.1   | 0.80  | 6.0  | 165                            | MOLLY BROOK FARMS          | VT   |
| 847 GR TLS BRITANY BOBBI J DALE       | 067149135       | 8K | F   | 322    | 2   | 69  | 1,711 | -0.26 | 29  | -0.09 | 44   | 348  | 372  | 402  | 2.98 | 3.8 | 0.1  | 2   | 87  | 1.0   | 2.38  | 3.7  | 165                            | LEHNERTZ, TRAVIS           | MN   |
| 848 SMITH HAVEN PLUS ZOEY             | 067145024       | 8K | F   | 5024   | 1   | 71  | 1,428 | -0.09 | 48  | -0.03 | 44   | 352  | 344  | 351  | 3.07 | 1.4 | -0.6 | 0   | 1.6 | 3.94  | 8.7   | 165  | SMITH WYATT AND AUSTIN         | MN                         |      |
| 849 PR MULTI-ROSE GREATNESS 14111     | 840003006209737 | 8K | F   | 14111  | 1   | 55  | 1,761 | -0.12 | 59  | -0.10 | 43   | 301  | 332  | 365  | 2.92 | 0.9 | -0.6 | 2   | 90  | 1.8   | 4.60  | 1.5  | 165                            | MULTI ROSE JERSEYS INC     | IA   |
| 850 FOREST GLEN HEADLINE MARGARINE    | 067323789       | 8K | F   | 3789   | 1   | 71  | 1,584 | -0.16 | 42  | -0.07 | 43   | 358  | 371  | 393  | 3.00 | 2.8 | 0.0  | 1   | 82  | 1.3   | 2.17  | 7.0  | 165                            | BANSEN, JAMIE              | OR   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                 | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |                                       |      |
|--------------------------------------|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|---------------------------------------|------|
|                                      |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                                   | GJPI |
| 851 DUTCH HOLLOW PLUS CHARLEY-ET     | 067184365       | 3K  |     | 4365  | 1   | 70  | 1,489 | -0.09 | 50  | -0.05 | 42   | 400  | 400  | 406  | 2.92 | 2.4  | 0.2  | 2   | 86 | 1.4  | 1.60  | 7.5   | 165 | SEXING TECHNOLOGIES / ACCOUNTING DEPT | TX   |
| 852 JER-Z-BOYZ MAGNIFICENT 30400     | 117957383       | 3K  |     | 30400 | 2   | 72  | 911   | 0.06  | 53  | 0.05  | 41   | 454  | 392  | 343  | 2.94 | 2.0  | -0.6 | 2   | 83 | 1.3  | 2.56  | 8.0   | 165 | JER-Z-BOYZ                            | CA   |
| 853 GR FARIA BROTHERS JEVON 47382    | 840003005622195 | 3K  |     | 47382 | 3   | 66  | 1,767 | -0.25 | 30  | -0.12 | 40   | 364  | 398  | 425  | 2.74 | 3.1  | 0.4  | 2   | 85 | 0.5  | 1.24  | 2.1   | 165 | FARIA BROS DAIRIES                    | TX   |
| 854 HI-LAND LOUIE SHELLEY            | 067146679       | 8K  | F   | 6679  | 0   | 65  | 1,271 | 0.11  | 78  | -0.03 | 40   | 444  | 427  | 418  | 2.92 | 1.8  | 0.1  | 0   | 62 | 0.5  | 0.68  | 6.2   | 165 | CHAMBERLAIN, DAVID R                  | NY   |
| 855 BW RENEGADE TASHA W512           | 117694998       | 3K  |     | 274   | 0   | 62  | 1,020 | 0.10  | 66  | 0.02  | 40   | 443  | 401  | 373  | 3.00 | 2.1  | -0.3 | 0   | 81 | 1.4  | 2.35  | 6.0   | 165 | BRENTWOOD FARMS                       | CA   |
| 856 HEI-BRI IMPULS CAMMI             | 067127705       | 6K  | F   | 705   | 1   | 68  | 823   | 0.07  | 52  | 0.06  | 40   | 481  | 417  | 372  | 3.03 | 3.2  | -0.1 | 1   | 83 | 1.2  | 1.95  | 6.6   | 165 | LANTZKY BRIAN & HEIDI & FAMILY        | IA   |
| 857 SHAN-MAR ACADEMY DIXIE           | 067128534       | 3K  |     | 534   | 1   | 67  | 1,448 | -0.14 | 40  | -0.06 | 39   | 390  | 399  | 411  | 2.92 | 3.6  | 0.9  | 1   | 76 | 0.7  | 2.09  | 5.2   | 165 | GARDNER MARK & SHANNON                | PA   |
| 858 NYMANS SPARKY 14134              | 117329474       | 3K  |     | 14134 | 1   | 68  | 940   | 0.14  | 71  | 0.03  | 39   | 434  | 391  | 364  | 3.07 | 2.0  | -0.7 | 1   | 79 | 1.1  | 2.54  | 6.6   | 165 | NYMAN BROS                            | CA   |
| 859 WAUNAKEE JEVON PAMONA 2551       | 069074135       | 8K  | F   | 2551  | 1   | 72  | 922   | 0.02  | 45  | 0.04  | 39   | 519  | 462  | 416  | 2.89 | 3.9  | 1.0  | 1   | 86 | 0.4  | -0.15 | 9.1   | 165 | MEIER, TONY                           | KS   |
| 860 FARIA BROTHERS PLUS 94666        | 840003008935154 | 6K  | F   | 94666 | 1   | 68  | 1,346 | -0.08 | 46  | -0.04 | 38   | 413  | 410  | 410  | 2.87 | 2.5  | 0.3  | 1   | 76 | 0.9  | 2.11  | 5.3   | 165 | FARIA BROS DAIRIES                    | TX   |
| 861 PEARLMONT IMPULS BF FERRIS       | 067104334       | 3K  |     | 334   | 2   | 67  | 848   | 0.14  | 65  | 0.03  | 38   | 484  | 431  | 395  | 3.04 | 2.8  | 0.2  | 2   | 86 | 1.1  | 1.72  | 5.3   | 165 | PEARL, WILLIAM H                      | VT   |
| 862 PR FARIA BROTHERS KANOO 88800    | 840003004634439 | 3K  |     | 88800 | 1   | 65  | 1,610 | -0.13 | 48  | -0.11 | 37   | 375  | 421  | 473  | 3.07 | 4.0  | 0.9  | 1   | 86 | 0.9  | 1.90  | 3.2   | 165 | FARIA BROS DAIRIES                    | TX   |
| 863 PIEDMONT PLUS GOLD               | 117638990       | 8K  | F   | 1920  | 1   | 70  | 1,353 | -0.02 | 58  | -0.05 | 37   | 411  | 413  | 417  | 2.87 | 1.9  | -0.2 | 0   | 85 | 1.6  | 3.17  | 6.7   | 165 | LUTZ, COREY ALAN                      | NC   |
| 864 BW RENEGADE ALASKA W341          | 117594319       | 3K  |     | 1110  | 1   | 69  | 811   | 0.18  | 71  | 0.05  | 37   | 498  | 438  | 388  | 2.91 | 2.7  | 0.1  | 1   | 76 | 1.3  | 1.36  | 7.7   | 165 | BRENTWOOD FARMS                       | CA   |
| 865 JER-Z-BOYZ MAGNITUDE 28888       | 117498314       | 3K  |     | 28888 | 2   | 68  | 589   | 0.32  | 89  | 0.09  | 37   | 487  | 411  | 356  | 3.11 | 1.5  | -0.4 | 2   | 90 | 1.5  | 3.01  | 4.6   | 165 | JER-Z-BOYZ                            | CA   |
| 866 GR BW GARDEN FLOWER ET615-ET     | 116492780       | 3K  |     | 1887  | 2   | 68  | 1,213 | -0.11 | 33  | -0.04 | 36   | 400  | 398  | 405  | 3.01 | 4.9  | 1.3  | 2   | 84 | 1.2  | 2.81  | 2.2   | 165 | BRENTWOOD FARMS                       | CA   |
| 867 PINE HILL IMPUL BRITTANY         | 116500140       | 3K  |     | 3091  | 2   | 70  | 570   | 0.15  | 54  | 0.08  | 36   | 481  | 400  | 336  | 2.97 | 2.7  | 0.5  | 2   | 83 | 0.8  | 2.80  | 5.6   | 165 | LINDSAYS PINE HILL JERSEY FARM        | OH   |
| 868 BK/DK JOSTEN ROSEBLOSSOM         | 067100789       | 8K  | F   | 789   | 1   | 69  | 511   | 0.20  | 61  | 0.10  | 36   | 546  | 457  | 385  | 2.97 | 3.6  | 1.0  | 0   | 83 | 0.7  | 0.94  | 6.6   | 165 | HEARTLAND JERSEYS                     | KS   |
| 869 DUTCH HOLLOW I LOUIE INDIRA      | 067284094       | 8K  | C   | 4094  | 2   | 73  | 1,117 | 0.07  | 65  | -0.02 | 35   | 413  | 402  | 397  | 2.95 | 2.2  | -0.1 | 1   | 90 | 1.4  | 3.30  | 6.3   | 165 | CHITTENDEN, PAUL C                    | NY   |
| 870 GR VALSIGNA CELEBRITY 14450      | 116966395       | 3K  |     | 14450 | 2   | 73  | 888   | -0.01 | 41  | 0.01  | 35   | 400  | 364  | 342  | 3.02 | 2.7  | 0.4  | 2   | 86 | 2.1  | 4.81  | 9.1   | 165 | WICKSTROM DAIRIES, LP                 | CA   |
| 871 FOREST GLEN ZUMAS GLEAM          | 067354824       | 6K  | F   | 4824  | 0   | 64  | 992   | -0.02 | 42  | -0.01 | 33   | 460  | 436  | 414  | 2.83 | 3.7  | 0.7  | 0   | 83 | 0.6  | 1.81  | 6.4   | 165 | BANSEN STANLEY K & DORA H             | OR   |
| 872 CAL-MART RENEGADE SKYE 3466      | 117163722       | 3K  |     | 3466  | 2   | 70  | 625   | 0.22  | 70  | 0.05  | 32   | 544  | 481  | 427  | 2.88 | 3.7  | -0.1 | 1   | 84 | 1.2  | 1.59  | 7.1   | 165 | MARTIN DAIRY LLC                      | OR   |
| 873 VAN DE IMPULS PAIGE OF PDF       | 067042705       | 8K  | F   | 705   | 4   | 76  | 764   | 0.09  | 50  | 0.02  | 31   | 525  | 484  | 452  | 2.93 | 4.2  | 2.1  | 3   | 84 | 0.9  | 0.61  | 7.9   | 165 | PUTT DAIRY FARMS                      | OH   |
| 874 NORSE STAR JEVON N3002           | 067343002       | 8K  | F   | 4019  | 2   | 75  | 564   | 0.21  | 65  | 0.05  | 31   | 517  | 448  | 388  | 2.86 | 3.5  | -0.2 | 2   | 90 | 1.1  | 2.93  | 9.6   | 165 | FREMSTAD, JEANA MARIE                 | WI   |
| 875 VALSIGNA ACADEMY 18054           | 117727085       | 3K  |     | 18054 | 1   | 68  | 777   | 0.03  | 42  | 0.01  | 29   | 496  | 463  | 436  | 2.90 | 4.9  | 0.6  | 0   | 83 | 1.6  | 3.46  | 6.4   | 165 | WICKSTROM DAIRIES, LP                 | CA   |
| 876 GR FARIA BROTHERS RENEGADE 90030 | 840003008303140 | 6K  | F   | 90030 | 1   | 70  | 580   | 0.24  | 72  | 0.04  | 29   | 539  | 481  | 429  | 2.84 | 3.9  | 0.3  | 0   |    | 1.5  | 2.38  | 6.0   | 165 | FARIA BROS DAIRIES                    | TX   |
| 877 WICKS ALLSTAR 4203               | 067304203       | 3K  |     | 4203  | 1   | 68  | 430   | 0.20  | 56  | 0.06  | 28   | 411  | 351  | 305  | 3.04 | 1.7  | -0.5 | 1   | 72 | 1.7  | 7.54  | 6.5   | 165 | WICKSTROM BROS                        | CA   |
| 878 HILMAR SPARKY 33193              | 067433193       | 8K  | F   | 33193 | 1   | 72  | 602   | 0.16  | 58  | 0.03  | 27   | 488  | 445  | 410  | 2.91 | 3.9  | -0.2 | 1   | 83 | 1.3  | 3.93  | 9.7   | 165 | AHLEM, CHARLES                        | CA   |
| 879 SUNSET CANYON MAXIMUM C ANTHEM   | 117478169       | 3K  |     | 1992  | 1   | 67  | 750   | 0.11  | 55  | -0.01 | 25   | 472  | 461  | 459  | 3.03 | 5.2  | 0.3  | 1   | 85 | 1.8  | 4.85  | 6.4   | 165 | SILVA, ERIC LEONARD                   | OR   |
| 880 MULTI-ROSE CUSTOM EMBLEM         | 067173014       | 8K  | F   | 3014  | 2   | 75  | 499   | 0.16  | 53  | 0.03  | 24   | 516  | 460  | 401  | 2.68 | 3.5  | 1.7  | 2   | 87 | 1.0  | 2.96  | 8.9   | 165 | MULTI ROSE JERSEYS INC                | IA   |
| 881 PR FARIA BROTHERS STONE 56536    | 840003006061174 | 3K  |     | 56536 | 2   | 68  | 1,439 | 0.05  | 73  | 0.01  | 54   | 368  | 321  | 290  | 2.99 | -0.6 | -1.4 | 1   | 83 | 0.8  | 0.45  | 4.9   | 164 | FARIA BROS DAIRIES                    | TX   |
| 882 D&E ABE R ROSE 21192             | 067521192       | 50K | F   | 21192 | 3   | 75  | 1,877 | -0.20 | 46  | -0.08 | 51   | 362  | 374  | 393  | 2.93 | 2.1  | -1.3 | 2   | 87 | 0.4  | 0.12  | 7.1   | 164 | D & E JERSEYS                         | TX   |
| 883 SCHULTZ VANCE ABB                | 067009166       | 8K  | F   | 166   | 1   | 71  | 1,327 | -0.02 | 57  | 0.01  | 50   | 409  | 363  | 334  | 3.03 | 1.4  | -0.7 | 1   | 82 | 1.0  | 0.72  | 7.3   | 164 | HUFFARD DAIRY FARMS                   | VA   |
| 884 GR FARIA BROTHERS STONE 64793    | 840003006263244 | 6K  | F   | 99841 | 2   | 68  | 1,234 | 0.05  | 67  | 0.03  | 49   | 403  | 349  | 311  | 2.96 | 0.8  | -0.4 | 1   | 81 | 0.6  | 0.18  | 4.1   | 164 | FARIA BROS DAIRIES                    | TX   |
| 885 VALSIGNA SPARKY 17558            | 117612299       | 3K  |     | 17558 | 1   | 70  | 1,159 | 0.02  | 58  | 0.04  | 47   | 403  | 351  | 319  | 3.07 | 1.1  | -0.9 | 1   | 74 | 0.7  | 1.08  | 8.9   | 164 | WICKSTROM DAIRIES, LP                 | CA   |
| 886 MILLS THOR LOLO                  | 116809575       | 3K  |     | 6760  | 3   | 73  | 1,567 | -0.11 | 51  | -0.05 | 46   | 431  | 425  | 427  | 2.93 | 3.2  | -0.8 | 2   | 81 | 0.6  | 0.19  | 6.7   | 164 | MILLS JERSEY FARM LLC                 | NV   |
| 887 WILSONVIEW LEGAL SAMMIE          | 117265992       | 3K  |     | 1733  | 1   | 64  | 1,438 | -0.10 | 47  | -0.03 | 44   | 371  | 367  | 379  | 3.10 | 3.2  | -0.2 | 1   | 86 | 1.4  | 2.77  | 4.0   | 164 | WILSONVIEW DAIRY                      | OR   |
| 888 SUNBOW BRAZO VISCOUNTESS         | 114817846       | 3K  |     | 64    | 5   | 75  | 1,440 | -0.04 | 57  | -0.05 | 43   | 415  | 413  | 423  | 3.06 | 3.1  | -0.3 | 3   | 90 | 0.8  | 0.70  | 8.4   | 164 | SUNBOW JERSEYS                        | TN   |
| 889 GR WILSONVIEW GANNON SALINA      | 117378722       | 8K  | F   | 1762  | 1   | 64  | 1,410 | -0.04 | 56  | -0.03 | 43   | 378  | 370  | 372  | 2.98 | 2.1  | 0.1  | 1   | 84 | 0.9  | 1.73  | 2.9   | 164 | WILSONVIEW DAIRY                      | OR   |
| 890 D&E ABE DAWN 21175               | 067521175       | 3K  |     | 21175 | 4   | 74  | 1,290 | -0.10 | 38  | -0.01 | 43   | 441  | 411  | 387  | 2.86 | 3.0  | 0.3  | 2   | 88 | 0.6  | 0.52  | 7.8   | 164 | D & E JERSEYS                         | TX   |
| 891 PEARLMONT TBONE IMPATIENS        | 067104341       | 3K  |     | 341   | 2   | 71  | 813   | 0.07  | 51  | 0.07  | 43   | 462  | 381  | 317  | 2.95 | 1.9  | 0.5  | 2   | 85 | 1.1  | 0.80  | 8.7   | 164 | PEARL, WILLIAM H                      | VT   |
| 892 AHLEM JIMMIE HAVS 31449          | 066068833       | 3K  |     | 31449 | 3   | 74  | 1,163 | -0.12 | 30  | 0.00  | 42   | 431  | 394  | 366  | 2.90 | 2.9  | 0.2  | 2   | 83 | 1.1  | 1.31  | 9.4   | 164 | AHLEM, WILLIAM JR                     | CA   |
| 893 BUTTERCREST VALENTINO GINA-ET    | 117429259       | 3K  |     | 481   | 1   | 71  | 1,290 | -0.11 | 39  | -0.02 | 41   | 375  | 363  | 360  | 2.99 | 2.5  | -0.8 | 1   | 83 | 1.8  | 3.78  | 8.7   | 164 | BUTTERCREST JERSEYS                   | OH   |
| 894 MOLLY BROOK VALENTINO FRESHETTA  | 067139557       | 3K  |     | 557   | 1   | 69  | 1,223 | 0.00  | 55  | -0.01 | 41   | 405  | 380  | 366  | 2.97 | 2.1  | -0.4 | 0   | 87 | 1.5  | 2.79  | 8.7   | 164 | MOLLY BROOK FARMS                     | VT   |
| 895 AHLEM LEGAL ELLA 35125           | 069042331       | 8K  | F   | 35125 | 1   | 71  | 1,132 | 0.03  | 57  | 0.00  | 41   | 472  | 435  | 406  | 2.90 | 3.3  | -1.1 | 1   | 85 | 1.4  | 2.01  | 8.2   | 164 | AHLEM, WILLIAM JR                     | CA   |
| 896 VALSIGNA KANOO 16572             | 117418569       | 3K  |     | 16572 | 1   | 68  | 1,172 | -0.07 | 42  | -0.02 | 40   | 382  | 360  | 351  | 3.03 | 2.6  | -0.4 | 1   | 75 | 1.4  | 3.59  | 7.1   | 164 | WICKSTROM DAIRIES, LP                 | CA   |
| 897 BLUE MIST VALENTINO MADDY-4-ET   | 117699957       | 8K  | C   | 1425  | 1   | 71  | 1,146 | 0.01  | 54  | 0.00  | 40   | 438  | 403  | 374  | 2.85 | 2.2  | -1.2 | 0   | 79 | 1.2  | 2.90  | 6.6   | 164 | GOMES, EDDIE                          | OR   |
| 898 TOLLENAAR LOTTO 6675C93-         |                 |     |     |       |     |     |       |       |     |       |      |      |      |      |      |      |      |     |    |      |       |       |     |                                       |      |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      |      | ----- TYPE ----- |     |      |     |     | Owner | ST    |      |                       |                                |      |
|--|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------|------------------|-----|------|-----|-----|-------|-------|------|-----------------------|--------------------------------|------|
|  |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS              | PL  | DPR  | Rec | FS  |       |       | PTAT | JUI                   | GFI                            | GJPI |
| 901 VALSIGNA VIBRANT 17675             | 117613423       | 3K  |     | 17675            | 1   | 69  | 1,222 | -0.13 | 31  | -0.03 | 37   | 500  | 480  | 460  | 2.76             | 5.4 | -0.3 | 0   | 0.2 | 0.29  | 7.3   | 164  | WICKSTROM DAIRIES, LP | CA                             |      |
| 902 GLYNN LOTTO HOLIDAY                | 117453722       | 3K  |     | 652              | 1   | 67  | 1,025 | 0.11  | 67  | 0.00  | 37   | 519  | 478  | 439  | 2.77             | 3.5 | 0.2  | 0   | 74  | 0.9   | 0.36  | 6.9  | 164                   | GLYNN MIKE & ELLEN             | MS   |
| 903 IRISHTOWNS W1350 IMPULS W987       | 067081350       | 3K  |     | 1350             | 5   | 75  | 653   | 0.09  | 45  | 0.08  | 37   | 521  | 446  | 388  | 3.01             | 4.3 | 1.0  | 2   | 84  | 0.4   | 0.36  | 5.9  | 164                   | IRISHTOWN ACRES                | PA   |
| 904 CAL-MART BLADE HYNDA 3871          | 117475214       | 3K  |     | 3871             | 1   | 68  | 482   | 0.15  | 51  | 0.11  | 37   | 527  | 427  | 342  | 2.89             | 3.3 | 0.3  | 1   | 76  | 0.6   | 1.13  | 5.5  | 164                   | MARTIN DAIRY LLC               | OR   |
| 905 CAL-MART LEGAL KELLY 5094          | 067125094       | 3K  |     | 5094             | 1   | 63  | 1,319 | -0.02 | 55  | -0.06 | 36   | 362  | 383  | 416  | 3.17             | 3.0 | 1.0  | 0   | 81  | 1.1   | 3.26  | 3.7  | 164                   | MARTIN DAIRY LLC               | OR   |
| 906 GABYS JACINTO ALYSSA               | 115761401       | 50K | F   | 1424             | 3   | 80  | 1,108 | -0.02 | 48  | -0.02 | 36   | 402  | 393  | 399  | 3.12             | 3.3 | -0.3 | 2   | 93  | 1.7   | 4.08  | 6.7  | 164                   | RIVER VALLEY FARM              | IL   |
| 907 HEARTLAND LOUIE RAVE-ET            | 067232210       | 3K  |     | 2210             | 1   | 68  | 1,034 | -0.01 | 45  | 0.00  | 36   | 486  | 450  | 415  | 2.76             | 3.8 | 0.4  | 1   | 85  | 0.6   | 1.64  | 5.5  | 164                   | HEARTLAND JERSEYS              | KS   |
| 908 DUPAT CACTUS 8994                  | 067148994       | 6K  | F   | 8994             | 0   | 67  | 816   | 0.13  | 61  | 0.04  | 36   | 466  | 411  | 367  | 2.93             | 2.2 | 0.7  | 0   | 78  | 1.4   | 1.80  | 8.2  | 164                   | WICKSTROM JERSEY FARMS INC     | CA   |
| 909 FOREST GLEN IMPULS JAMESWAY        | 067323732       | 3K  |     | 3732             | 1   | 69  | 1,026 | -0.08 | 32  | -0.01 | 35   | 457  | 432  | 413  | 2.89             | 4.4 | 0.0  | 1   | 80  | 0.8   | 2.25  | 6.8  | 164                   | BANSEN, DAN K                  | OR   |
| 910 AHLEM PRIMO JO 37636               | 070049110       | 8K  | F   | 37636            | 1   | 70  | 928   | 0.01  | 44  | 0.01  | 35   | 392  | 352  | 319  | 2.88             | 1.5 | 0.2  | 0   | 81  | 1.3   | 4.21  | 8.1  | 164                   | AHLEM, WILLIAM JR              | CA   |
| 911 RECTORS LEGAL PATRIOT              | 067262475       | 6K  | F   | 2475             | 1   | 68  | 802   | -0.01 | 35  | 0.03  | 35   | 443  | 393  | 355  | 2.96             | 3.8 | 1.2  | 0   | 78  | 1.1   | 2.99  | 6.9  | 164                   | HEARTLAND JERSEYS              | KS   |
| 912 O.F. MILITIA JANICE                | 067126637       | 3K  |     | 6637             | 3   | 70  | 559   | 0.21  | 65  | 0.08  | 35   | 497  | 428  | 380  | 3.11             | 3.2 | 1.4  | 2   | 78  | 0.7   | 1.87  | 4.9  | 164                   | OWENS FARMS INC                | WI   |
| 913 BLUE MIST VENERABLE PUMPKIN        | 117669219       | 8K  | F   | 1381             | 1   | 70  | 974   | 0.11  | 64  | -0.01 | 34   | 479  | 458  | 448  | 3.03             | 3.9 | 0.3  | 1   | 81  | 0.9   | 1.89  | 6.7  | 164                   | GOMES, EDDIE                   | OR   |
| 914 SCHIRM LOUIE RAYNEE                | 067291305       | 3K  |     | 1305             | 1   | 69  | 1,121 | 0.06  | 63  | -0.04 | 33   | 433  | 428  | 430  | 2.97             | 3.1 | -0.1 | 1   | 79  | 1.1   | 3.32  | 7.1  | 164                   | TATE, WILL                     | CA   |
| 915 GOLDUST MERCHANT LYMARI-ET         | 067281990       | 8K  | C   | 1990             | 1   | 73  | 746   | 0.15  | 63  | 0.04  | 33   | 438  | 383  | 333  | 2.82             | 1.3 | -0.7 | 0   | 88  | 1.7   | 5.00  | 8.6  | 164                   | LOURENZO, KEVIN B              | ID   |
| 916 ALOHA SHAWNEE FIESTA               | 840003005368084 | 3K  |     | 8124             | 2   | 71  | 768   | 0.08  | 49  | 0.02  | 32   | 488  | 441  | 399  | 2.83             | 3.8 | -0.1 | 3   | 89  | 0.7   | 2.37  | 5.4  | 164                   | RUSSELL, LARS WILLIAM          | CA   |
| 917 BLUE MIST IMPULS MALLY             | 117215595       | 8K  | F   | 1180             | 2   | 70  | 303   | 0.23  | 56  | 0.11  | 32   | 536  | 435  | 348  | 2.88             | 3.4 | -0.1 | 2   | 90  | 1.2   | 3.28  | 5.7  | 164                   | GOMES, EDDIE                   | OR   |
| 918 CAL-MART LOTTO BAMBI 5120-ET       | 067385120       | 3K  |     | 5120             | 1   | 69  | 548   | 0.16  | 57  | 0.06  | 31   | 521  | 454  | 396  | 2.89             | 3.8 | 1.6  | 0   | 80  | 1.0   | 2.04  | 6.9  | 164                   | MARTIN DAIRY LLC               | OR   |
| 919 TOLLENAAR RENEGADE 7108            | 840003007844128 | 3K  |     | 7108             | 0   | 59  | 493   | 0.17  | 55  | 0.07  | 31   | 499  | 427  | 366  | 2.90             | 3.4 | -0.1 | 1   | 80  | 1.3   | 4.10  | 5.3  | 164                   | TOLLENAAR JERSEYS              | CA   |
| 920 VALSIGNA KILOWATT 17461            | 117611373       | 3K  |     | 17461            | 1   | 70  | 1,101 | -0.12 | 30  | -0.05 | 30   | 366  | 376  | 392  | 3.00             | 3.5 | 1.0  | 0   | 78  | 0.9   | 4.57  | 8.5  | 164                   | WICKSTROM DAIRIES, LP          | CA   |
| 921 AHLEM IMPULS VEETEE 31594          | 066068978       | 3K  |     | 31594            | 3   | 72  | 522   | 0.00  | 24  | 0.06  | 29   | 491  | 427  | 371  | 2.86             | 4.9 | 1.4  | 2   | 81  | 1.1   | 3.50  | 6.8  | 164                   | AHLEM, WILLIAM JR              | CA   |
| 922 CAL-MART UPPERCUT EMILY 5313       | 067185313       | 6K  | F   | 5313             | 1   | 68  | 826   | 0.05  | 47  | -0.01 | 28   | 473  | 459  | 454  | 3.04             | 4.5 | 1.6  | 0   | 76  | 0.9   | 1.63  | 6.6  | 164                   | MARTIN DAIRY LLC               | OR   |
| 923 AHLEM MERCHANT SOUVENIR 37565      | 070049039       | 8K  | C   | 37565            | 0   | 66  | 670   | 0.09  | 49  | 0.01  | 27   | 425  | 389  | 356  | 2.86             | 2.7 | -0.2 | 0   | 75  | 2.2   | 6.36  | 8.5  | 164                   | AHLEM, WILLIAM JR              | CA   |
| 924 GR CAL-MART GANNON SUSE 3236       | 117017133       | 3K  |     | 3236             | 2   | 71  | 532   | 0.18  | 57  | 0.05  | 27   | 501  | 448  | 399  | 2.84             | 3.9 | 0.4  | 1   | 81  | 1.3   | 3.84  | 6.8  | 164                   | MARTIN DAIRY LLC               | OR   |
| 925 JER-Z-BOYZ LEGACY 35106            | 117497881       | 8K  | F   | 35106            | 1   | 71  | 229   | 0.13  | 35  | 0.09  | 24   | 481  | 409  | 352  | 3.02             | 3.5 | 1.2  | 1   | 88  | 1.1   | 5.96  | 7.6  | 164                   | JER-Z-BOYZ                     | CA   |
| 926 PR FARIA BROTHERS MATINEE 70518    | 840003004257103 | 6K  | F   | 70518            | 4   | 60  | 2,172 | -0.16 | 70  | -0.10 | 57   | 320  | 349  | 389  | 3.05             | 0.1 | 0.8  | 0   |     | -0.5  | -2.63 | -4.0 | 163                   | FARIA DAIRY                    | AZ   |
| 927 PR FARIA BROTHERS VERMEER 63921    | 840003005643018 | 6K  | F   | 63921            | 2   | 64  | 1,760 | -0.08 | 63  | -0.04 | 54   | 364  | 351  | 351  | 2.97             | 0.4 | -0.3 | 1   | 83  | 0.3   | -0.88 | 2.7  | 163                   | FARIA DAIRY                    | AZ   |
| 928 MILLS THOR PAT                     | 117389261       | 3K  |     | 7066             | 1   | 66  | 1,621 | -0.05 | 67  | -0.03 | 53   | 471  | 448  | 438  | 2.99             | 3.2 | -0.6 | 1   | 50  | -0.2  | -3.60 | 6.4  | 163                   | MILLS JERSEY FARM LLC          | NV   |
| 929 GR FOREST GLEN GANNONS DIXIE       | 067354299       | 8K  | C   | 4299             | 1   | 59  | 1,354 | -0.07 | 50  | 0.00  | 47   | 378  | 344  | 320  | 2.92             | 1.5 | 0.1  | 0   |     | 0.5   | 1.26  | 2.9  | 163                   | BANSEN, DAN K                  | OR   |
| 930 PR FARIA BROTHERS MAXIMUM 63221    | 840003005642318 | 6K  | F   | 63221            | 3   | 60  | 1,415 | 0.04  | 73  | -0.03 | 45   | 418  | 405  | 406  | 3.06             | 1.8 | 0.0  | 0   | 82  | 0.4   | 0.00  | 0.9  | 163                   | FARIA DAIRY                    | AZ   |
| 931 PINE HILL IMPULS JORDAN            | 116500186       | 3K  |     | 3095             | 3   | 72  | 1,167 | -0.10 | 39  | 0.01  | 45   | 416  | 369  | 337  | 2.98             | 1.9 | 1.0  | 2   | 86  | 0.8   | 0.93  | 6.9  | 163                   | LINDSAYS PINE HILL JERSEY FARM | OH   |
| 932 JVB RED HOT RESTORE LEXY           | 840003007065997 | 3K  |     | 130              | 1   | 70  | 1,370 | -0.18 | 28  | -0.03 | 44   | 406  | 383  | 366  | 2.86             | 2.7 | 0.1  | 1   | 81  | 0.8   | 1.24  | 9.3  | 163                   | VANBUSKIRK JIM & JANET         | MI   |
| 933 HILMAR SPIKE 27122                 | 067327122       | 6K  | F   | 27122            | 1   | 72  | 1,079 | 0.01  | 52  | 0.02  | 42   | 418  | 377  | 352  | 3.02             | 2.4 | -0.3 | 2   | 86  | 1.3   | 1.59  | 8.0  | 163                   | AHLEM, CHARLES                 | CA   |
| 934 VALSIGNA TBONE 10889               | 116005207       | 3K  |     | 10889            | 4   | 75  | 1,031 | 0.01  | 51  | 0.03  | 42   | 418  | 371  | 339  | 3.03             | 2.0 | -0.2 | 2   | 85  | 1.7   | 1.83  | 9.8  | 163                   | WICKSTROM DAIRIES, LP          | CA   |
| 935 SUNWEST ABE MAXIMUM M25901         | 840003006032395 | 3K  |     | 25901            | 2   | 70  | 748   | 0.25  | 83  | 0.08  | 42   | 522  | 442  | 384  | 3.06             | 2.2 | -1.1 | 2   | 79  | 0.6   | -0.46 | 5.7  | 163                   | SUNWEST JERSEY DAIRY           | CA   |
| 936 GR FARIA BROTHERS ALEXANDER 101893 | 840003008535261 | 3K  |     | 101893           | 1   | 66  | 1,251 | 0.05  | 66  | -0.02 | 41   | 471  | 446  | 427  | 2.87             | 2.7 | 0.2  | 1   | 77  | 0.4   | -0.06 | 4.7  | 163                   | FARIA DAIRY                    | AZ   |
| 937 VALSIGNA VICTOR 17097              | 117550906       | 3K  |     | 17097            | 1   | 69  | 1,113 | 0.02  | 54  | 0.01  | 41   | 384  | 351  | 333  | 3.06             | 1.7 | -0.5 | 1   | 77  | 1.1   | 2.55  | 7.9  | 163                   | WICKSTROM DAIRIES, LP          | CA   |
| 938 CARTEL VICTOR KATRINA 3658         | 067333658       | 3K  |     | 3658             | 1   | 68  | 981   | 0.11  | 66  | 0.03  | 41   | 467  | 416  | 380  | 3.00             | 2.6 | 0.1  | 1   | 80  | 0.3   | 0.35  | 5.9  | 163                   | CALIFORNIA CARTEL              | CA   |
| 939 VALSIGNA SPARKY 18036              | 117726945       | 3K  |     | 18036            | 1   | 70  | 864   | 0.02  | 43  | 0.05  | 41   | 380  | 320  | 280  | 3.08             | 1.3 | 0.1  | 0   | 73  | 1.3   | 3.65  | 8.9  | 163                   | WICKSTROM DAIRIES, LP          | CA   |
| 940 VALENTINO KATE-ET                  | 117517147       | 8K  | C   | 250              | 1   | 72  | 1,392 | -0.11 | 42  | -0.05 | 40   | 378  | 379  | 387  | 2.97             | 3.1 | -1.0 | 0   | 77  | 1.9   | 3.52  | 9.4  | 163                   | TATE, JONAS                    | CA   |
| 941 AHLEM LEGAL LAUGHTER 35488         | 069042694       | 8K  | C   | 35488            | 1   | 71  | 1,268 | -0.10 | 38  | -0.03 | 40   | 388  | 376  | 374  | 3.01             | 2.2 | 0.8  | 1   | 86  | 1.5   | 2.43  | 8.2  | 163                   | AHLEM, WILLIAM JR              | CA   |
| 942 HILMAR AVANTI 24744                | 067624744       | 6K  | F   | 24744            | 2   | 73  | 1,239 | -0.05 | 48  | -0.02 | 40   | 391  | 382  | 388  | 3.11             | 2.7 | -0.1 | 1   | 84  | 0.8   | 2.20  | 7.3  | 163                   | AHLEM, CHARLES                 | CA   |
| 943 CAL-MART BLADE KARMEN 3885         | 117481329       | 3K  |     | 3885             | 1   | 68  | 1,156 | -0.05 | 43  | 0.00  | 40   | 405  | 377  | 358  | 2.96             | 2.6 | 0.3  | 1   | 86  | 1.1   | 2.84  | 5.8  | 163                   | MARTIN DAIRY LLC               | OR   |
| 944 FARIA BROTHERS VALENTINO MCINNIS   | 840003008534992 | 3K  |     | 101624           | 1   | 70  | 1,370 | -0.01 | 59  | -0.05 | 39   | 382  | 377  | 377  | 2.88             | 2.2 | -1.1 | 1   | 80  | 1.6   | 3.43  | 8.8  | 163                   | FARIA DAIRY                    | AZ   |
| 945 HI-LAND LOUIE FLICKA               | 067146684       | 3K  |     | 6684             | 1   | 69  | 1,231 | 0.03  | 61  | -0.03 | 39   | 461  | 444  | 434  | 2.92             | 3.3 | 0.1  | 1   | 83  | 1.0   | 0.96  | 6.4  | 163                   | SCHIRM, KYLE M                 | OH   |
| 946 GR GABYS DALE APRICOT-ET           | 116650265       | 50K | F   | 1675             | 2   | 71  | 1,134 | 0.06  | 63  | -0.01 | 39   | 421  | 405  | 405  | 3.15             | 3.5 | -0.2 | 2   | 90  | 1.1   | 2.18  | 4.7  | 163                   | GABY, HENRY                    | TN   |
| 947 JARS OF CLAY STRUNK BERDINE        | 067333028       | 8K  | F   | 3028             | 2   | 73  | 1,112 | -0.03 | 46  | 0.00  | 39   | 429  | 394  | 366  | 2.85             | 3.0 | 0.1  | 2   | 77  | 1.1   | 1.88  | 8.2  | 163                   | RANCHO TERESITA DAIRY          | CA   |
| 948 DP MERCHANT SNUFFIE 1124           | 067551124       | 3K  |     | 1124             | 0   | 63  | 1,009 | 0.06  | 58  | 0.02  | 39   | 400  | 363  | 341  | 3.06             | 1.9 | -0.9 | 0   | 81  | 1.4   | 3.55  | 7.3  | 163                   | DESERT PARK JERSEYS            | OR   |
| 949 AHLEM TBONE PRUDENCE 33335         | 066622768       | 3K  |     | 33335            | 2   | 73  | 928   | -0.01 | 40  | 0.03  | 39   | 431  | 384  | 352  | 3.03             | 3.1 | 0.4  | 3   | 86  | 1.7   | 2.47  | 9.6  | 163                   | AHLEM, WILLIAM JR              | CA   |
| 950 GR FARIA BROTHERS MALBEC 66304     | 840003007466043 | 6K  | F   | 66304            | 2   | 70  | 851   | 0.15  | 66  | 0.05  | 39   | 498  | 436  | 385  | 2.91             | 3.0 | -0.7 | 2   | 82  | 0.9   | 1.51  | 4.9  | 163                   | FARIA DAIRY                    | AZ   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |    |      | Owner | ST   |     |   |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|----|------|-------|------|-----|---|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS | PTAT |       |      | JUI | GFI   | GJPI |
| 951 GABYS LEGAL ALESSANDRA-ET           | 117471706       | 3K  |     | 1943             | 1   | 68  | 1,184 | -0.02 | 50  | -0.02 | 38   | 398  | 384  | 382              | 3.02 | 2.7  | 0.8  | 1   | 78 | 1.2  | 2.69  | 7.0  | 163 | GABY JERSEY FARM                            | TN   |
| 952 HIGH LAWN TBONE JAZZ TIME           | 117057757       | 3K  |     | 11443            | 1   | 69  | 858   | 0.14  | 65  | 0.04  | 38   | 440  | 386  | 345              | 2.96 | 2.3  | -0.8 | 1   | 81 | 1.3  | 2.90  | 8.0  | 163 | HIGH LAWN FARM                              | MA   |
| 953 DUTCH HOLLOW VALENTINO CHERI-ET     | 067184312       | 3K  |     | 4312             | 1   | 71  | 1,288 | -0.13 | 33  | -0.04 | 37   | 395  | 387  | 380              | 2.81 | 3.2  | -0.9 | 1   | 88 | 2.1  | 3.87  | 9.1  | 163 | CHITTENDEN, PAUL C                          | NY   |
| 954 EVANGELO TBONE CHRISTY              | 067079495       | 3K  |     | 495              | 2   | 70  | 948   | 0.02  | 48  | 0.02  | 37   | 465  | 431  | 412              | 3.06 | 3.8  | 0.5  | 2   | 85 | 1.4  | 1.26  | 8.8  | 163 | EVANGELO, ANTHONY                           | CA   |
| 955 WILSONVIEW JEVON MOMENTUM           | 067191466       | 3K  |     | 1466             | 3   | 73  | 990   | 0.08  | 60  | 0.01  | 36   | 534  | 499  | 472              | 2.90 | 4.8  | 1.2  | 2   | 86 | 0.5  | -0.97 | 6.9  | 163 | WILSONVIEW DAIRY                            | OR   |
| 956 O.F MILLION LAUREN                  | 067126251       | 3K  |     | 6251             | 4   | 72  | 724   | 0.19  | 68  | 0.05  | 36   | 559  | 488  | 424              | 2.79 | 4.0  | 0.2  | 2   | 81 | -0.1 | -0.86 | 5.1  | 163 | OWENS FARMS INC                             | WI   |
| 957 AHLEM LEGAL CORA 35735              | 069042941       | 8K  | C   | 35735            | 1   | 70  | 1,173 | -0.11 | 34  | -0.03 | 35   | 379  | 377  | 383              | 3.01 | 3.7  | 0.3  | 1   | 76 | 2.2  | 4.97  | 7.0  | 163 | AHLEM, WILLIAM JR                           | CA   |
| 958 IRISHTOWNS W2195 IMPULS WASKO       | 067252195       | 3K  |     | 2195             | 0   | 62  | 476   | 0.12  | 42  | 0.09  | 35   | 511  | 424  | 355              | 3.00 | 3.6  | 1.4  | 0   | 80 | 0.9  | 1.59  | 6.1  | 163 | IRISHTOWN ACRES                             | PA   |
| 959 GR IRISHTOWNS W2404S GANNON JESSEY  | 067232404       | 3K  |     | 2404             | 1   | 68  | 1,313 | -0.02 | 54  | -0.07 | 33   | 386  | 404  | 425              | 2.93 | 3.2  | 0.4  | 1   | 82 | 1.5  | 3.42  | 4.7  | 163 | IRISHTOWN ACRES                             | PA   |
| 960 AHLEM LEGAL BETSY 35727             | 069042933       | 8K  | F   | 35727            | 1   | 71  | 1,171 | -0.11 | 33  | -0.04 | 33   | 376  | 372  | 370              | 2.86 | 2.6  | 0.3  | 1   | 81 | 2.1  | 5.13  | 7.6  | 163 | AHLEM, WILLIAM JR                           | CA   |
| 961 JER BEL PLUS DESTINE                | 117674864       | 8K  | F   | 792              | 1   | 72  | 1,123 | -0.02 | 47  | -0.03 | 33   | 380  | 374  | 369              | 2.86 | 2.4  | -0.3 | 1   | 83 | 2.1  | 5.66  | 7.3  | 163 | KING HOWARD & FAMILY                        | OH   |
| 962 FARIA BROTHERS PLUS 103760          | 840003009425471 | 6K  | F   | 103760           | 0   | 64  | 1,103 | 0.03  | 56  | -0.03 | 33   | 379  | 369  | 365              | 2.91 | 1.7  | -0.4 | 0   | 80 | 2.2  | 5.27  | 6.6  | 163 | FARIA DAIRY                                 | AZ   |
| 963 BW BLACKSTONE APRIL ET584-ET        | 116249739       | 50K | C   | 584              | 2   | 77  | 1,003 | -0.02 | 44  | -0.02 | 33   | 385  | 367  | 356              | 2.96 | 2.2  | -0.3 | 2   | 90 | 2.4  | 4.95  | 9.0  | 163 | SILVA, ERIC LEONARD                         | OR   |
| 964 TENN JACE CBB MAID                  | 114084439       | 3K  |     | 5322             | 5   | 76  | 905   | 0.08  | 58  | 0.00  | 33   | 496  | 460  | 425              | 2.79 | 3.9  | -0.7 | 2   | 87 | 1.0  | 2.39  | 9.8  | 163 | UNIV OF TENNESSEE DAIRY RESEARCH & EDUC CTR | TN   |
| 965 HEARTLAND KARL STORMY               | 067262386       | 6K  | F   | 2386             | 1   | 67  | 876   | 0.11  | 62  | 0.01  | 33   | 449  | 418  | 398              | 3.00 | 3.4  | 0.0  | 0   | 79 | 1.1  | 3.22  | 5.7  | 163 | ENNEKING ANTHONY & THOMAS                   | KS   |
| 966 HILMAR KILOWATT 32834               | 067432834       | 6K  | F   | 32834            | 0   | 66  | 677   | 0.07  | 46  | 0.04  | 33   | 477  | 412  | 353              | 2.82 | 3.3  | -0.5 | 0   | 67 | 1.1  | 3.47  | 8.6  | 163 | AHLEM, CHARLES                              | CA   |
| 967 CAL-MART IMPULS MASANI 9516         | 115462638       | 3K  |     | 37               | 5   | 73  | 530   | 0.23  | 68  | 0.06  | 31   | 554  | 482  | 419              | 2.87 | 3.1  | 1.5  | 2   | 84 | 0.3  | 0.67  | 5.6  | 163 | MARTIN DAIRY LLC                            | OR   |
| 968 WILL DO MATINEE HESTER              | 117296501       | 3K  |     | 441              | 1   | 67  | 866   | 0.16  | 70  | -0.01 | 30   | 491  | 474  | 468              | 3.06 | 3.8  | 1.1  | 0   | 80 | 0.7  | 1.66  | 5.9  | 163 | ETTINGER EDWIN R & CHERYL F                 | SC   |
| 969 FOREST GLEN ROCKETS GOLD            | 067048950       | 3K  |     | 8950             | 4   | 75  | 745   | -0.05 | 24  | 0.02  | 30   | 433  | 392  | 358              | 2.90 | 3.7  | 1.2  | 2   | 91 | 1.9  | 4.36  | 8.6  | 163 | FOREST GLEN JERSEYS                         | OR   |
| 970 SUNSET CANYON ALLSTAR B APRIL 48-ET | 117647932       | 3K  |     | 2048             | 1   | 68  | 549   | 0.14  | 53  | 0.05  | 30   | 465  | 400  | 345              | 2.88 | 2.5  | 0.1  | 0   | 85 | 1.6  | 4.03  | 7.1  | 163 | SILVA, ERIC LEONARD                         | OR   |
| 971 GR FARIA BROTHERS ALLSTAR 94053     | 840003008934541 | 6K  | F   | 94053            | 1   | 69  | 510   | 0.24  | 68  | 0.06  | 30   | 495  | 426  | 367              | 2.88 | 2.5  | -0.1 | 1   | 82 | 1.4  | 3.84  | 6.7  | 163 | FARIA BROS DAIRIES                          | TX   |
| 972 CLOVER PATCH HEADLINE CITY          | 117268427       | 8K  | F   | 1891             | 1   | 70  | 1,206 | -0.13 | 30  | -0.08 | 29   | 408  | 429  | 451              | 2.91 | 5.2  | 0.5  | 1   | 90 | 1.9  | 4.57  | 7.5  | 163 | KOZAK, ALAN                                 | OH   |
| 973 AHLEM TBONE SUNSPRYT 33311          | 066622744       | 8K  | F   | 33311            | 2   | 75  | 611   | 0.06  | 40  | 0.03  | 29   | 453  | 402  | 358              | 2.89 | 2.8  | 0.4  | 2   | 85 | 1.6  | 4.66  | 9.7  | 163 | AHLEM, WILLIAM JR                           | CA   |
| 974 VALSIGNA SPARKY 17491               | 117611645       | 3K  |     | 17491            | 1   | 69  | 625   | 0.16  | 58  | 0.03  | 28   | 474  | 430  | 393              | 2.91 | 2.8  | -0.2 | 0   | 78 | 1.4  | 4.21  | 7.8  | 163 | WICKSTROM DAIRIES, LP                       | CA   |
| 975 SCHULTZ HEADLINE JANE               | 067671084       | 6K  | F   | 1084             | 1   | 69  | 787   | -0.08 | 22  | -0.01 | 25   | 498  | 482  | 467              | 2.87 | 6.8  | 2.2  | 0   | 79 | 0.8  | 2.42  | 5.8  | 163 | HUFFARD JAMES S III & JAMES S IV            | VA   |
| 976 VALSIGNA SPARKY 17271               | 117552494       | 3K  |     | 17271            | 1   | 70  | 741   | -0.04 | 27  | -0.01 | 25   | 407  | 393  | 385              | 2.98 | 3.8  | 0.5  | 1   | 82 | 1.8  | 5.58  | 10.3 | 163 | WICKSTROM DAIRIES, LP                       | CA   |
| 977 FASTLANE RENEGADE LILIA-ET          | 069263256       | 3K  |     | 217              | 1   | 69  | 401   | 0.14  | 47  | 0.06  | 25   | 503  | 439  | 378              | 2.79 | 4.0  | 0.2  | 1   | 83 | 1.9  | 5.18  | 7.8  | 163 | ALVES, ISIDRO                               | NV   |
| 978 VALSIGNA KILOWATT 17396             | 117610765       | 3K  |     | 17396            | 1   | 70  | 392   | 0.15  | 46  | 0.05  | 22   | 506  | 454  | 406              | 2.85 | 4.5  | 1.0  | 1   | 78 | 0.9  | 4.99  | 7.1  | 163 | WICKSTROM DAIRIES, LP                       | CA   |
| 979 GR FARIA BROTHERS AVANTI ELLINGTON  | 840003005623705 | 3K  |     | 48892            | 2   | 68  | 1,589 | -0.03 | 65  | 0.03  | 60   | 354  | 302  | 271              | 3.04 | -1.0 | -0.5 | 2   | 83 | 0.2  | -0.85 | 3.1  | 162 | FARIA BROS DAIRIES                          | TX   |
| 980 OHIO LOUIE ARTIS 4495               | 116718938       | 8K  | C   | 4495             | 2   | 73  | 1,427 | -0.13 | 41  | 0.00  | 51   | 367  | 326  | 299              | 2.95 | 0.8  | 0.0  | 2   | 88 | 0.9  | 0.36  | 6.6  | 162 | OHIO STATE UNIVERSITY                       | OH   |
| 981 FARIA BROTHERS VALENTINO 69772      | 840003007171890 | 6K  | C   | 69772            | 1   | 72  | 1,402 | 0.04  | 71  | -0.01 | 47   | 418  | 392  | 377              | 2.97 | 1.8  | -2.0 | 1   | 82 | 1.6  | 0.77  | 8.8  | 162 | FARIA DAIRY                                 | AZ   |
| 982 HAWARDEN JUPITER BEAUTY             | 067099539       | 3K  |     | 539              | 1   | 67  | 1,376 | -0.03 | 57  | -0.01 | 47   | 383  | 361  | 355              | 3.08 | 1.8  | -0.4 | 2   | 83 | 0.8  | 0.90  | 7.2  | 162 | HAWARDEN JERSEYS INC                        | ID   |
| 983 GR FARIA BROTHERS VALENTINO NANY    | 840003008535130 | 3K  |     | 101762           | 1   | 66  | 1,729 | -0.12 | 56  | -0.08 | 46   | 335  | 352  | 374              | 2.95 | 1.8  | -1.1 | 1   | 82 | 1.3  | 2.23  | 4.4  | 162 | FARIA DAIRY                                 | AZ   |
| 984 SMJ VIBRANT DUCHESS                 | 067361303       | 3K  |     | 5                | 1   | 71  | 1,693 | -0.17 | 47  | -0.08 | 45   | 403  | 416  | 434              | 2.90 | 3.5  | -0.3 | 0   | 80 | -0.1 | -1.49 | 8.5  | 162 | ZEINSTRAS FARMS LLC                         | MI   |
| 985 MS ABE 4423 E606                    | 115548657       | 3K  |     | 5606             | 3   | 71  | 1,234 | 0.02  | 61  | 0.00  | 44   | 455  | 414  | 380              | 2.85 | 2.4  | -0.8 | 3   | 90 | 0.2  | 0.15  | 5.7  | 162 | MOUNTAIN SHADOW DAIRY                       | AZ   |
| 986 ALL LYNNS VICTORY MADONNA           | 117332027       | 3K  |     | 1389             | 0   | 60  | 823   | 0.18  | 73  | 0.07  | 43   | 491  | 406  | 333              | 2.86 | 1.6  | -1.5 | 0   | 80 | 0.5  | 0.39  | 5.9  | 162 | ALLEN, DAVID                                | WI   |
| 987 VALSIGNA DELMAR 17065               | 117550643       | 3K  |     | 17065            | 1   | 68  | 1,340 | -0.06 | 49  | -0.03 | 42   | 369  | 365  | 376              | 3.12 | 2.5  | -0.1 | 1   | 73 | 1.1  | 2.04  | 8.1  | 162 | WICKSTROM DAIRIES, LP                       | CA   |
| 988 GR GOOSE WIN 776                    | 117517576       | 3K  |     | 222              | 1   | 62  | 1,167 | -0.06 | 43  | 0.00  | 42   | 458  | 417  | 382              | 2.84 | 3.2  | 0.8  | 1   | 82 | 1.3  | 0.46  | 3.6  | 162 | MOYE, NEIL                                  | NC   |
| 989 GR MM TBONE 8082                    | 116922348       | 8K  | F   | 8082             | 3   | 70  | 668   | 0.23  | 74  | 0.10  | 42   | 487  | 395  | 324              | 3.03 | 1.3  | 0.0  | 2   | 84 | 0.8  | 0.68  | 4.4  | 162 | MISTY MEADOW DAIRY                          | OR   |
| 990 CEDAR MOUNTAIN FARM PLUS SELENA     | 067068571       | 3K  |     | 532              | 1   | 66  | 1,069 | 0.01  | 51  | 0.02  | 41   | 438  | 390  | 353              | 2.90 | 2.0  | -0.1 | 0   | 80 | 1.0  | 1.80  | 5.6  | 162 | WHITE, BENJAMIN R                           | VT   |
| 991 PIEDMONT VERMEER LINDA              | 117240957       | 8K  | F   | 1779             | 2   | 71  | 1,065 | 0.09  | 66  | 0.02  | 41   | 477  | 439  | 416              | 3.04 | 3.0  | 0.6  | 2   | 83 | 0.5  | -0.37 | 5.8  | 162 | LUTZ, COREY ALAN                            | NC   |
| 992 TC 1587 BOLD UTMOST                 | 117578298       | 8K  | F   | 1587             | 1   | 71  | 1,067 | -0.01 | 46  | 0.01  | 40   | 350  | 315  | 295              | 3.02 | 0.8  | 0.4  | 1   | 88 | 1.9  | 4.28  | 7.7  | 162 | LUTZ, KEVIN ERIC                            | NC   |
| 993 AHLEM JACE WANETTA 19739            | 064553293       | 3K  |     | 19739            | 3   | 74  | 874   | 0.09  | 57  | 0.05  | 40   | 477  | 406  | 345              | 2.82 | 1.7  | 0.0  | 2   | 85 | 1.2  | 1.75  | 9.3  | 162 | AHLEM, WILLIAM JR                           | CA   |
| 994 D&E HEADLINE MARCH 21995            | 067421995       | 8K  | F   | 21995            | 1   | 72  | 1,646 | -0.18 | 43  | -0.10 | 39   | 386  | 422  | 462              | 2.98 | 4.3  | -0.6 | 1   | 86 | 1.4  | 1.85  | 8.6  | 162 | D & E JERSEYS                               | TX   |
| 995 DEN-KEL CHAMP JELLA-ET              | 067100763       | 3K  |     | 763              | 1   | 71  | 1,206 | -0.01 | 53  | -0.03 | 39   | 415  | 396  | 384              | 2.90 | 2.4  | -0.7 | 1   | 85 | 0.9  | 2.05  | 8.3  | 162 | KELLER, KIP A                               | NY   |
| 996 GR FARIA BROTHERS VALENTINO RASHEED | 840003008535072 | 6K  | F   | 101704           | 1   | 69  | 1,126 | 0.06  | 62  | 0.00  | 39   | 404  | 373  | 351              | 2.92 | 1.7  | -0.9 | 0   | 80 | 1.7  | 3.19  | 6.4  | 162 | FARIA DAIRY                                 | AZ   |
| 997 WILSONVIEW CHAMP FLAME              | 117378759       | 8K  | C   | 1764             | 1   | 73  | 1,114 | 0.11  | 71  | 0.00  | 39   | 420  | 394  | 380              | 3.00 | 1.9  | -0.4 | 1   | 78 | 1.3  | 2.09  | 9.2  | 162 | WILSONVIEW DAIRY                            | OR   |
| 998 SHAN-MAR BLADE ANDREA               | 067138627       | 8K  | F   | 627              | 0   | 65  | 878   | 0.01  | 43  | 0.04  | 39   | 438  | 378  | 332              | 2.94 | 2.5  | 0.6  | 1   | 80 | 0.3  | 1.72  | 6.9  | 162 | GARDNER MARK & SHANNON                      | PA   |
| 999 BUTTERCREST LEGAL FLING             | 117516708       | 8K  | F   | 510              | 1   | 65  | 845   | 0.06  | 51  | 0.05  | 39   | 474  | 415  | 371              | 3.00 | 3.8  | 0.3  | 0   | 80 | 0.9  | 1.18  | 4.2  | 162 | COOPER RIDER & SONS                         | OH   |
| 1,000 GR FARIA BROTHERS RENEGADE 90113  | 840003008303223 | 6K  |     | 90113            | 1   | 70  | 1,321 | -0.02 | 58  | -0.05 | 38   | 384  | 379  | 378              | 2.88 | 1.5  | 0.0  | 1   | 81 | 1.7  | 2.62  | 5.7  | 162 | FARIA BROS DAIRIES                          | TX   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      |      | ----- TYPE ----- |     |      |     |    |      |       |      | Owner | ST                        |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------|------------------|-----|------|-----|----|------|-------|------|-------|---------------------------|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS              | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI  |       |                           | GJPI |
| 1.001 HILMAR IMPULS 19096               | 067219096       | 50K | C   | 19096            | 3   | 75  | 1,236 | -0.05 | 47  | -0.03 | 38   | 420  | 407  | 399  | 2.89             | 2.8 | 0.5  | 2   | 90 | 1.2  | 1.61  | 6.6  | 162   | AHLEM, CHARLES            | CA   |
| 1.002 CAL-MART LEGAL HANNI 5106         | 067385106       | 3K  |     | 5106             | 1   | 68  | 1,175 | -0.09 | 35  | -0.02 | 38   | 397  | 381  | 377  | 3.03             | 3.0 | 0.6  | 0   | 81 | 1.6  | 3.53  | 6.6  | 162   | MARTIN DAIRY LLC          | OR   |
| 1.003 WILSONVIEW TBONE MILESTONE-ET     | 116826213       | 3K  |     | 1588             | 2   | 73  | 772   | 0.08  | 51  | 0.05  | 38   | 411  | 354  | 318  | 3.13             | 2.2 | 0.3  | 1   | 86 | 1.9  | 3.87  | 8.8  | 162   | WILSONVIEW DAIRY          | OR   |
| 1.004 FOREST GLEN IMPULS GRETA          | 067323173       | 3K  |     | 3173             | 2   | 69  | 744   | 0.09  | 51  | 0.05  | 38   | 442  | 390  | 365  | 3.29             | 3.7 | 1.0  | 1   | 75 | 1.4  | 1.99  | 5.6  | 162   | BANSEN STANLEY K & DORA H | OR   |
| 1.005 TOLLENAAR VIBRANT 7139            | 840003007844159 | 3K  |     | 7139             | 0   | 61  | 1,145 | 0.03  | 57  | -0.02 | 37   | 476  | 452  | 432  | 2.84             | 4.0 | -0.1 | 1   | 72 | 0.0  | -0.30 | 6.1  | 162   | TOLLENAAR JERSEYS         | CA   |
| 1.006 ALL LYNNS VAUGHN RUTHANN          | 117483246       | 6K  | C   | 31429            | 1   | 67  | 928   | 0.03  | 49  | 0.02  | 37   | 441  | 405  | 385  | 3.11             | 2.9 | 0.9  | 1   | 84 | 0.3  | 1.57  | 6.4  | 162   | D & E JERSEYS             | TX   |
| 1.007 FARIA BROTHERS IMPULS 69348       | 840003007171466 | 6K  | F   | 69348            | 1   | 60  | 615   | 0.26  | 77  | 0.08  | 37   | 516  | 441  | 385  | 3.05             | 2.6 | 0.2  | 0   |    | 0.6  | 0.97  | 2.9  | 162   | FARIA DAIRY               | AZ   |
| 1.008 HILMAR CARRIER 22771              | 067622771       | 6K  | F   | 22771            | 3   | 74  | 1,312 | -0.07 | 48  | -0.06 | 36   | 417  | 422  | 428  | 2.88             | 4.0 | 0.3  | 2   | 83 | 0.4  | 1.08  | 6.3  | 162   | AHLEM, CHARLES            | CA   |
| 1.009 WILSONVIEW TBONE MAGENTA          | 117627198       | 3K  |     | 1881             | 0   | 65  | 1,208 | -0.08 | 39  | -0.04 | 36   | 392  | 391  | 399  | 3.02             | 4.1 | -0.2 | 0   | 82 | 1.9  | 3.74  | 9.4  | 162   | WILSONVIEW DAIRY          | OR   |
| 1.010 FOREST GLEN LOUIES OLIVIA         | 067323547       | 3K  |     | 3547             | 1   | 69  | 1,004 | -0.04 | 39  | 0.01  | 36   | 454  | 419  | 392  | 2.90             | 3.5 | 1.1  | 0   | 77 | 0.5  | 1.42  | 6.5  | 162   | BANSEN, DAN K             | OR   |
| 1.011 MS LEGAL 5281 G827                | 117326725       | 3K  |     | 7827             | 1   | 68  | 952   | 0.01  | 44  | 0.01  | 36   | 406  | 380  | 372  | 3.16             | 3.0 | 1.2  | 1   | 82 | 1.5  | 3.79  | 5.8  | 162   | MOUNTAIN SHADOW DAIRY     | AZ   |
| 1.012 HIGH LAWN IMPULS EUREKA           | 115348855       | 3K  |     | 8164             | 4   | 75  | 873   | 0.02  | 44  | 0.03  | 36   | 441  | 395  | 362  | 2.98             | 3.0 | 0.7  | 2   | 90 | 1.2  | 2.52  | 5.7  | 162   | HIGH LAWN FARM            | MA   |
| 1.013 AHLEM LEGAL LORA 35626            | 069042832       | 8K  | C   | 35626            | 1   | 70  | 743   | 0.05  | 43  | 0.04  | 36   | 405  | 349  | 309  | 3.03             | 1.8 | 0.3  | 1   | 84 | 1.9  | 5.39  | 7.3  | 162   | AHLEM, WILLIAM JR         | CA   |
| 1.014 CLOVER PATCH HEADLINE REGAL       | 117676772       | 8K  | F   | 2141             | 1   | 71  | 1,470 | -0.18 | 32  | -0.08 | 35   | 371  | 395  | 419  | 2.88             | 3.9 | 0.0  | 0   | 81 | 1.6  | 3.53  | 7.6  | 162   | KOZAK, ALAN               | OH   |
| 1.015 WILSONVIEW CHAMP LUXERY           | 117490884       | 3K  |     | 1813             | 1   | 69  | 971   | 0.00  | 46  | 0.00  | 35   | 422  | 401  | 395  | 3.12             | 3.4 | 0.8  | 0   | 82 | 1.1  | 2.41  | 8.1  | 162   | WILSONVIEW DAIRY          | OR   |
| 1.016 FOREST GLEN ALEXANDERS PHANTOM-P  | 067323604       | 3K  |     | 3604             | 2   | 69  | 724   | 0.06  | 44  | 0.05  | 35   | 508  | 447  | 400  | 2.96             | 4.4 | 0.5  | 1   | 79 | 0.6  | 1.09  | 6.2  | 162   | BANSEN, DAN K             | OR   |
| 1.017 VALSIGNA SPARKY 17435             | 117611140       | 3K  |     | 17435            | 1   | 71  | 1,062 | -0.12 | 25  | -0.02 | 34   | 367  | 353  | 347  | 2.98             | 3.4 | 0.0  | 1   | 67 | 1.3  | 4.56  | 10.0 | 162   | WICKSTROM DAIRIES, LP     | CA   |
| 1.018 WILSONVIEW TBONE MONDAY-ET        | 116826240       | 3K  |     | 1593             | 2   | 72  | 534   | 0.18  | 56  | 0.08  | 34   | 477  | 407  | 354  | 3.06             | 3.3 | 0.4  | 1   | 77 | 1.8  | 2.97  | 8.0  | 162   | WILSONVIEW DAIRY          | OR   |
| 1.019 MOLLY BROOK LOUIE FORMAL          | 067139513       | 3K  |     | 513              | 1   | 70  | 1,095 | -0.03 | 44  | -0.04 | 33   | 497  | 484  | 472  | 2.82             | 5.0 | 0.9  | 0   |    | 0.3  | 0.42  | 8.0  | 162   | MOLLY BROOK FARMS         | VT   |
| 1.020 FOREST GLEN ROCKET SHERRY         | 067088271       | 3K  |     | 8271             | 5   | 76  | 940   | -0.02 | 38  | 0.00  | 33   | 396  | 368  | 347  | 2.90             | 1.7 | 1.7  | 2   | 88 | 1.8  | 3.90  | 8.1  | 162   | FOREST GLEN JERSEYS       | OR   |
| 1.021 SUNNY-ROX LEGAL KRUNCH            | 067100781       | 3K  |     | 781              | 0   | 61  | 932   | -0.08 | 28  | 0.00  | 33   | 447  | 417  | 394  | 2.90             | 4.6 | 0.9  | 0   |    | 1.5  | 3.54  | 6.4  | 162   | DENNISTON, ROY T          | NY   |
| 1.022 WICKS VIBRANT 4227                | 067304227       | 3K  |     | 4227             | 1   | 70  | 1,198 | -0.06 | 42  | -0.05 | 32   | 444  | 443  | 440  | 2.78             | 4.4 | -0.6 | 1   | 82 | 0.9  | 2.30  | 8.5  | 162   | WICKSTROM BROS            | CA   |
| 1.023 FOREST GLEN ALEXANDERS AVENUE     | 067354384       | 8K  | F   | 4384             | 1   | 72  | 933   | -0.04 | 36  | -0.01 | 32   | 445  | 423  | 407  | 2.92             | 3.8 | 1.4  | 0   | 80 | 1.3  | 2.61  | 9.0  | 162   | BANSEN, DAN K             | OR   |
| 1.024 WILSONVIEW ROMEO BEKAH            | 067191486       | 3K  |     | 1486             | 3   | 72  | 596   | 0.04  | 35  | 0.05  | 31   | 491  | 428  | 374  | 2.88             | 4.1 | 0.5  | 2   | 90 | 1.4  | 2.81  | 6.8  | 162   | WILSONVIEW DAIRY          | OR   |
| 1.025 GR FARIA BROTHERS APPARTION 64349 | 840003006262800 | 6K  | F   | 64349            | 2   | 71  | 471   | 0.25  | 68  | 0.07  | 31   | 521  | 441  | 371  | 2.85             | 3.1 | -0.1 | 0   | 83 | 1.3  | 2.50  | 5.8  | 162   | FARIA BROS DAIRIES        | TX   |
| 1.026 CHASIN-RAINBOWS LOUIE SUMMER      | 067093537       | 3K  |     | 537              | 1   | 68  | 896   | 0.01  | 42  | -0.01 | 30   | 492  | 462  | 430  | 2.74             | 4.4 | 1.2  | 0   | 84 | 0.2  | 0.96  | 6.0  | 162   | TOHL, PATTI               | OR   |
| 1.027 VALSIGNA CELEBRITY 14547          | 116967190       | 6K  | C   | 14547            | 2   | 74  | 846   | 0.06  | 50  | -0.01 | 30   | 478  | 447  | 418  | 2.80             | 4.2 | -0.2 | 2   | 84 | 1.2  | 2.62  | 8.4  | 162   | WICKSTROM DAIRIES, LP     | CA   |
| 1.028 AHLEM IATOLA RUTH 31605           | 066068989       | 8K  | F   | 31605            | 3   | 75  | 804   | -0.03 | 31  | 0.00  | 28   | 451  | 420  | 392  | 2.82             | 3.8 | 0.7  | 2   | 90 | 1.8  | 4.64  | 8.3  | 162   | AHLEM, WILLIAM JR         | CA   |
| 1.029 VALSIGNA SPARKY 17647             | 117613142       | 3K  |     | 17647            | 1   | 70  | 797   | 0.00  | 35  | -0.01 | 28   | 409  | 386  | 370  | 2.94             | 3.5 | 0.7  | 1   | 78 | 1.3  | 4.61  | 8.5  | 162   | WICKSTROM DAIRIES, LP     | CA   |
| 1.030 VALSIGNA KILOWATT 17266           | 117552449       | 3K  |     | 17266            | 1   | 70  | 723   | 0.11  | 55  | 0.01  | 28   | 528  | 490  | 454  | 2.80             | 4.0 | 1.1  | 1   | 79 | 0.4  | 1.14  | 7.3  | 162   | WICKSTROM DAIRIES, LP     | CA   |
| 1.031 CLOVER PATCH LEGAL CITRUS         | 117676727       | 8K  | F   | 2136             | 1   | 70  | 717   | 0.02  | 37  | 0.01  | 28   | 448  | 414  | 387  | 2.92             | 4.0 | 0.7  | 0   | 75 | 2.0  | 4.86  | 7.8  | 162   | KOZAK, ALAN               | OH   |
| 1.032 AHLEM ALLSTAR PRIDE 36370         | 070047844       | 8K  | F   | 36370            | 1   | 69  | 529   | 0.15  | 51  | 0.04  | 27   | 456  | 400  | 348  | 2.83             | 3.1 | -0.4 | 1   | 86 | 1.7  | 6.77  | 6.1  | 162   | AHLEM, WILLIAM JR         | CA   |
| 1.033 JER-Z-BOYZ TBONE 32709            | 053904080       | 3K  |     | 32709            | 2   | 70  | 298   | 0.20  | 51  | 0.08  | 27   | 506  | 430  | 368  | 2.98             | 4.0 | 0.6  | 1   | 86 | 1.7  | 4.04  | 7.8  | 162   | JER-Z-BOYZ                | CA   |
| 1.034 VALSIGNA ACADEMY 17399            | 117610792       | 3K  |     | 17399            | 1   | 68  | 740   | -0.01 | 32  | -0.02 | 22   | 433  | 422  | 409  | 2.83             | 4.5 | 1.0  | 1   | 82 | 2.2  | 6.65  | 7.1  | 162   | WICKSTROM DAIRIES, LP     | CA   |
| 1.035 YOSEMITE CACTUS JEVON P24052      | 840003008443236 | 3K  |     | 24052            | 1   | 69  | 238   | 0.14  | 37  | 0.05  | 16   | 568  | 517  | 463  | 2.75             | 6.0 | 2.1  | 1   | 82 | 1.0  | 3.48  | 6.7  | 162   | YOSEMITE JERSEY DAIRY     | CA   |
| 1.036 GR FARIA BROTHERS BLADE PEPE      | 840003008321710 | 6K  |     | 100603           | 1   | 57  | 1,488 | 0.01  | 68  | -0.01 | 50   | 378  | 352  | 343  | 3.05             | 0.8 | -0.5 | 1   | 84 | 0.4  | 0.28  | 0.5  | 161   | FARIA BROS DAIRIES        | TX   |
| 1.037 GR AHLEM GANNON ROSANNA 32820     | 066622253       | 3K  |     | 32820            | 3   | 71  | 1,776 | -0.22 | 39  | -0.08 | 49   | 276  | 281  | 291  | 2.86             | 0.8 | -1.1 | 3   | 87 | 1.3  | 3.30  | 6.0  | 161   | AHLEM, WILLIAM JR         | CA   |
| 1.038 HI-LAND MATINEE GECKO             | 067095681       | 3K  |     | 5681             | 4   | 73  | 1,506 | -0.03 | 64  | -0.06 | 44   | 426  | 424  | 428  | 2.92             | 2.4 | -0.1 | 2   | 88 | 1.0  | -0.16 | 7.0  | 161   | CHAMBERLAIN, DAVID R      | NY   |
| 1.039 CDF PLUS DUKE P39711              | 840003008236577 | 8K  | F   | 39711            | 0   | 67  | 1,347 | -0.11 | 42  | -0.02 | 44   | 366  | 346  | 336  | 2.96             | 1.7 | 0.2  | 0   | 71 | 1.0  | 1.64  | 8.3  | 161   | C & S LIVESTOCK           | CA   |
| 1.040 CAL-MART MERCHANT HAZEL 5121-ET   | 067385121       | 3K  |     | 5121             | 1   | 70  | 945   | 0.07  | 56  | 0.06  | 44   | 454  | 385  | 334  | 3.00             | 2.2 | -1.0 | 0   | 81 | 1.6  | 1.63  | 7.7  | 161   | MARTIN DAIRY LLC          | OR   |
| 1.041 HAAK HAVEN JEVON MARGO            | 065556227       | 3K  |     | 4199             | 3   | 74  | 1,008 | 0.08  | 60  | 0.04  | 43   | 487  | 424  | 373  | 2.88             | 3.0 | -0.6 | 3   | 87 | 0.6  | -0.06 | 10.2 | 161   | VANDERHAAK DAIRY          | WA   |
| 1.042 CINNAMON RIDGE WARRIOR SNOW       | 117244184       | 8K  | F   | 836              | 1   | 66  | 968   | 0.09  | 60  | 0.05  | 43   | 447  | 389  | 349  | 3.02             | 1.8 | 0.5  | 1   | 80 | 0.0  | 0.08  | 4.9  | 161   | MAXWELL AMY & KARA        | IA   |
| 1.043 GR VALSIGNA ABBOTT 12954          | 116591957       | 3K  |     | 12954            | 3   | 72  | 814   | 0.03  | 45  | 0.07  | 43   | 435  | 362  | 309  | 3.07             | 1.9 | -0.1 | 0   | 80 | 1.0  | 1.92  | 7.2  | 161   | WICKSTROM DAIRIES, LP     | CA   |
| 1.044 MS VINSON 4366 G863               | 117327070       | 8K  | F   | 7863             | 1   | 72  | 1,394 | -0.11 | 45  | -0.04 | 42   | 429  | 409  | 389  | 2.74             | 2.5 | -0.6 | 1   | 76 | 0.3  | 0.88  | 8.2  | 161   | MOUNTAIN SHADOW DAIRY     | AZ   |
| 1.045 JCJ ABE 20925                     | 840003005970811 | 3K  |     | 909              | 2   | 70  | 1,298 | -0.02 | 54  | -0.03 | 42   | 411  | 392  | 382  | 2.93             | 2.7 | -0.7 | 2   | 82 | 0.5  | 0.52  | 6.4  | 161   | ORTHRIIDGE FARMS          | WI   |
| 1.046 PR REEL IN                        | 067331170       | 3K  |     | 1170             | 1   | 59  | 1,217 | -0.05 | 47  | -0.02 | 41   | 399  | 375  | 360  | 2.94             | 2.1 | 0.0  | 1   | 80 | 0.3  | 1.43  | 1.8  | 161   | HALLET DAIRY FARM LLC     | WI   |
| 1.047 CAL-MART VANCE THORA 3722         | 117337134       | 3K  |     | 3722             | 1   | 68  | 1,573 | -0.13 | 49  | -0.08 | 40   | 390  | 411  | 435  | 2.93             | 2.8 | -0.1 | 1   | 83 | 0.9  | 1.51  | 6.4  | 161   | MARTIN DAIRY LLC          | OR   |
| 1.048 GR AHLEM DALE SOUVENIR 32303-ET   | 066621736       | 3K  |     | 32303            | 3   | 72  | 1,138 | -0.10 | 33  | 0.00  | 40   | 385  | 353  | 330  | 2.93             | 3.1 | -0.1 | 2   | 85 | 1.2  | 3.34  | 5.0  | 161   | AHLEM, WILLIAM JR         | CA   |
| 1.049 HILMAR ABE 17979                  | 067217979       | 3K  |     | 17979            | 4   | 74  | 882   | 0.05  | 50  | 0.04  | 40   | 541  | 470  | 405  | 2.77             | 4.3 | -0.1 | 2   | 83 | -0.1 | -1.67 | 6.2  | 161   | AHLEM, CHARLES            | CA   |
| 1.050 MS PLUS 4445 G893                 | 117416204       | 8K  | F   | 7893             | 1   | 73  | 1,303 | -0.11 | 39  | -0.04 | 39   | 349  | 338  | 333  | 2.90             | 1.1 | -0.2 | 1   | 78 | 1.7  | 4.31  | 8.9  | 161   | ARIZONA SUN SYNDICATE     | AZ   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      |       |     | Owner | ST                         |      |
|--|-----------------|-----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|-----|-------|----------------------------|------|
|  |                 |     |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI |       |                            | GJPI |
| 1.051 SUN VALLEY ECLIPES PANDY-P-ET      | 117751697       | 3K  |     | 2876   | 1   | 67  | 1,192 | 0.04  | 62  | -0.02 | 39   | 368  | 360  | 369  | 3.18 | 1.8 | 0.0  | 0   | 78 | 1.3  | 2.96  | 7.2 | 161   | SUN VALLEY FARM            | OR   |
| 1.052 BLUE MIST VALENTINO STORM          | 117699836       | 8K  | F   | 1408   | 1   | 70  | 1,418 | -0.14 | 39  | -0.06 | 38   | 347  | 360  | 380  | 3.00 | 2.7 | -0.8 | 0   | 81 | 2.0  | 4.49  | 6.3 | 161   | GOMES, EDDIE               | OR   |
| 1.053 CLOVER PATCH RESTORE CHECKERS      | 116948124       | 8K  | F   | 1794   | 2   | 73  | 1,143 | 0.00  | 52  | -0.01 | 38   | 462  | 436  | 416  | 2.86 | 3.3 | -0.1 | 2   | 85 | 1.0  | 0.49  | 7.7 | 161   | KOZAK, ALAN                | OH   |
| 1.054 CAL-MART LEGAL VIOLET 3955         | 117516502       | 3K  |     | 3955   | 1   | 67  | 1,115 | -0.03 | 45  | -0.01 | 38   | 377  | 356  | 346  | 3.02 | 2.1 | 0.0  | 0   | 83 | 2.1  | 4.24  | 6.0 | 161   | MARTIN DAIRY LLC           | OR   |
| 1.055 JER-Z-BOYZ VERMEER 36695           | 118529327       | 8K  | F   | 36695  | 1   | 65  | 722   | 0.28  | 83  | 0.07  | 38   | 520  | 449  | 394  | 2.97 | 2.4 | -0.3 | 0   | 77 | 0.3  | 0.33  | 4.9 | 161   | JER-Z-BOYZ                 | CA   |
| 1.056 FOREST GLEN LOUIES ALLIE           | 067354635       | 3K  |     | 4635   | 1   | 61  | 1,018 | 0.02  | 50  | 0.00  | 37   | 490  | 454  | 426  | 2.92 | 4.1 | 0.6  | 0   |    | 0.5  | 0.81  | 3.9 | 161   | DEN HOED DAIRY INC         | WA   |
| 1.057 CLOVER PATCH IMPULS PATIO          | 116200693       | 3K  |     | 1458   | 3   | 72  | 706   | -0.03 | 28  | 0.06  | 37   | 473  | 401  | 342  | 2.93 | 4.0 | 0.5  | 2   | 81 | 0.9  | 1.97  | 6.5 | 161   | KOZAK, ALAN                | OH   |
| 1.058 GR AHLEM GANNON MILLY 35115        | 069042321       | 8K  | C   | 35115  | 2   | 72  | 1,105 | 0.03  | 56  | -0.01 | 36   | 382  | 359  | 342  | 2.87 | 1.4 | -0.8 | 2   | 87 | 1.5  | 4.67  | 5.9 | 161   | AHLEM, WILLIAM JR          | CA   |
| 1.059 WICKS LOUIE 4285                   | 067304285       | 8K  | C   | 4285   | 1   | 70  | 1,040 | 0.08  | 63  | 0.00  | 35   | 440  | 414  | 395  | 2.91 | 2.5 | 0.4  | 0   |    | 0.6  | 1.96  | 7.1 | 161   | PROVOAST, COLE             | MI   |
| 1.060 BW PARADE PAOLA ET578-ET           | 116171434       | 3K  |     | 1463   | 3   | 75  | 950   | 0.01  | 46  | 0.01  | 35   | 409  | 381  | 364  | 3.01 | 2.6 | 0.7  | 2   | 85 | 1.5  | 2.59  | 7.9 | 161   | BRENTWOOD FARMS            | CA   |
| 1.061 BARHAM BLACKSTONE BLACKIE          | 116537876       | 3K  |     | 107    | 2   | 72  | 908   | -0.04 | 36  | 0.01  | 35   | 407  | 368  | 341  | 2.97 | 2.8 | 0.3  | 2   | 88 | 1.7  | 3.68  | 8.3 | 161   | LEE, LYNN                  | TN   |
| 1.062 CLOVER PATCH VERMEER EDEN          | 116948254       | 3K  |     | 1807   | 1   | 67  | 836   | 0.18  | 73  | 0.02  | 35   | 516  | 469  | 434  | 2.96 | 3.4 | 0.8  | 1   | 86 | 0.4  | -0.82 | 6.1 | 161   | KOZAK, ALAN                | OH   |
| 1.063 NYMANS TBONE 10633                 | 116441476       | 3K  |     | 10633  | 3   | 73  | 749   | 0.05  | 44  | 0.04  | 35   | 463  | 399  | 341  | 2.81 | 2.1 | -0.2 | 3   | 90 | 1.7  | 3.29  | 9.3 | 161   | NYMAN BROS                 | CA   |
| 1.064 HILMAR ABE 18426                   | 067218426       | 3K  |     | 18426  | 4   | 74  | 743   | 0.12  | 58  | 0.04  | 35   | 498  | 445  | 409  | 3.05 | 4.3 | 0.1  | 2   | 82 | 0.4  | 1.38  | 6.5 | 161   | AHLEM, CHARLES             | CA   |
| 1.065 BUTTER BROOK LEGAL LEMON           | 117474893       | 3K  |     | 160    | 1   | 67  | 1,244 | -0.18 | 23  | -0.06 | 34   | 431  | 441  | 458  | 3.01 | 6.0 | 1.4  | 1   | 84 | 0.8  | 1.90  | 6.1 | 161   | BETZ, DAVID A              | OR   |
| 1.066 MILLS HEADLINE BELIEVE             | 117502855       | 3K  |     | 7141   | 1   | 70  | 1,075 | -0.05 | 38  | -0.02 | 34   | 488  | 469  | 454  | 2.86 | 4.9 | 0.2  | 1   | 79 | 1.2  | 1.01  | 8.5 | 161   | MILLS JERSEY FARM LLC      | NV   |
| 1.067 BLUE MIST LEGAL SOFIA              | 117215979       | 3K  |     | 1220   | 2   | 68  | 963   | 0.00  | 43  | 0.00  | 34   | 420  | 393  | 374  | 2.95 | 3.5 | 0.3  | 1   | 83 | 1.6  | 3.69  | 5.6 | 161   | GOMES, EDDIE               | OR   |
| 1.068 FOREST GLEN ABES GENA              | 067282947       | 3K  |     | 2947   | 2   | 71  | 595   | 0.15  | 56  | 0.07  | 34   | 522  | 445  | 378  | 2.84 | 3.9 | -0.5 | 2   | 79 | 0.4  | 1.65  | 7.1 | 161   | BANSEN STANLEY K & DORA H  | OR   |
| 1.069 FOREST GLEN HEADLINE CELESTE       | 067354715       | 3K  |     | 4715   | 0   | 66  | 1,352 | -0.18 | 27  | -0.08 | 33   | 431  | 456  | 485  | 2.98 | 5.9 | 0.8  | 0   | 78 | 1.4  | 1.17  | 9.8 | 161   | FOREST GLEN JERSEYS        | OR   |
| 1.070 FOREST GLEN LYNDSONS JEWEL         | 067354682       | 6K  | F   | 4682   | 0   | 61  | 902   | 0.04  | 50  | 0.00  | 32   | 466  | 437  | 411  | 2.86 | 3.4 | 0.9  | 0   | 82 | 1.2  | 2.81  | 5.0 | 161   | BANSEN STANLEY K & DORA H  | OR   |
| 1.071 GR OOMSDALE NATHAN GINNY GENIS-ET  | 067027341       | 50K | F   | 341    | 3   | 70  | 757   | 0.10  | 54  | 0.03  | 32   | 450  | 410  | 381  | 2.98 | 3.8 | 0.8  | 2   | 88 | 1.1  | 2.95  | 2.7 | 161   | OOMS, MICHAEL AREND        | NY   |
| 1.072 AHLEM LEGAL DAWN 35749             | 069042955       | 8K  | C   | 35749  | 1   | 71  | 619   | 0.08  | 43  | 0.06  | 32   | 490  | 432  | 389  | 3.01 | 4.0 | 1.2  | 1   | 84 | 1.8  | 2.86  | 7.9 | 161   | AHLEM, WILLIAM JR          | CA   |
| 1.073 GR FARIA BROTHERS APPARITION 65033 | 840003009138840 | 6K  | F   | 65033  | 2   | 65  | 410   | 0.24  | 63  | 0.09  | 32   | 524  | 443  | 377  | 2.98 | 3.8 | 0.3  | 0   | 85 | 0.7  | 1.80  | 2.8 | 161   | FARIA DAIRY                | AZ   |
| 1.074 WICKS IMPULS 3530                  | 067133530       | 3K  |     | 3530   | 3   | 67  | 914   | -0.06 | 31  | -0.01 | 31   | 444  | 416  | 391  | 2.83 | 3.5 | 1.0  | 2   | 91 | 1.6  | 3.43  | 3.2 | 161   | WICKSTROM BROS             | CA   |
| 1.075 GR VALSIGNA SPARKY 18455           | 117777914       | 6K  | F   | 18455  | 0   | 52  | 786   | 0.07  | 50  | 0.02  | 31   | 413  | 376  | 347  | 2.92 | 2.0 | 0.5  | 0   |    | 1.2  | 4.20  | 2.2 | 161   | WICKSTROM DAIRIES, LP      | CA   |
| 1.076 CAMPBELLS RUN-ET                   | 070332388       | 6K  | F   | 3507   | 1   | 71  | 1,051 | -0.04 | 38  | -0.04 | 30   | 420  | 415  | 412  | 2.88 | 3.9 | -0.5 | 1   | 83 | 1.6  | 4.92  | 7.4 | 161   | MEYERS, STEVEN CRAIG       | PA   |
| 1.077 AHLEM LEGAL PAMELA 35654           | 069042860       | 8K  | C   | 35654  | 1   | 72  | 861   | -0.08 | 24  | 0.00  | 30   | 372  | 351  | 339  | 2.99 | 3.5 | 1.0  | 1   | 83 | 2.2  | 6.39  | 8.9 | 161   | AHLEM, WILLIAM JR          | CA   |
| 1.078 HILMAR SUNNY 23174                 | 067623174       | 3K  |     | 23174  | 3   | 73  | 606   | 0.05  | 37  | 0.05  | 30   | 542  | 485  | 438  | 2.91 | 4.8 | 1.4  | 2   | 85 | 0.7  | 1.39  | 7.1 | 161   | AHLEM, CHARLES             | CA   |
| 1.079 TOLLENAAR HEADLINE 6533            | 840003007398611 | 3K  |     | 6533   | 0   | 64  | 1,212 | -0.10 | 38  | -0.07 | 29   | 456  | 479  | 503  | 2.93 | 6.3 | 0.2  | 1   | 84 | 1.2  | 2.70  | 8.5 | 161   | TOLLENAAR JERSEYS          | CA   |
| 1.080 VALSIGNA ACADEMY 18276             | 117729014       | 6K  | F   | 18276  | 0   | 63  | 871   | -0.07 | 27  | -0.03 | 25   | 456  | 447  | 434  | 2.77 | 5.6 | 0.7  | 0   |    | 1.0  | 3.81  | 5.7 | 161   | WICKSTROM DAIRIES, LP      | CA   |
| 1.081 FOREST GLEN ZUMAS KALEO            | 067354829       | 8K  | F   | 4829   | 0   | 63  | 261   | 0.14  | 37  | 0.07  | 23   | 521  | 446  | 375  | 2.75 | 4.7 | 0.4  | 0   | 77 | 1.1  | 4.42  | 5.5 | 161   | BANSEN, JAMIE              | OR   |
| 1.082 BW HEADLINE SUZANNE 4 ET822-ET     | 117526125       | 50K | C   | 1518   | 1   | 74  | 940   | -0.11 | 22  | -0.06 | 22   | 413  | 434  | 458  | 2.99 | 6.6 | 0.8  | 0   | 75 | 1.9  | 5.76  | 7.7 | 161   | BRENTWOOD FARMS            | CA   |
| 1.083 AHLEM ABE DREAM 31804              | 066069188       | 80K | F   | 31804  | 3   | 74  | 287   | 0.19  | 48  | 0.05  | 21   | 521  | 464  | 412  | 2.87 | 4.6 | 0.7  | 2   | 87 | 1.7  | 4.36  | 6.7 | 161   | AHLEM, WILLIAM JR          | CA   |
| 1.084 CLOVER PATCH ZUMA HILTON           | 117676473       | 8K  | F   | 139    | 0   | 64  | 311   | 0.03  | 19  | 0.05  | 20   | 543  | 486  | 431  | 2.80 | 6.4 | 1.7  | 0   |    | 0.7  | 3.54  | 6.2 | 161   | RIVER VALLEY FARM          | IL   |
| 1.085 BW RENEGADE ANDREA W318            | 117579244       | 3K  |     | 1093   | 1   | 68  | 196   | 0.25  | 56  | 0.07  | 20   | 559  | 482  | 405  | 2.68 | 4.2 | 1.6  | 1   | 80 | 0.8  | 2.95  | 5.1 | 161   | BRENTWOOD FARMS            | CA   |
| 1.086 YOSEMITE SHAH ABRAM N22093         | 840003004598802 | 3K  |     | 22093  | 2   | 69  | 1,477 | -0.12 | 43  | -0.02 | 47   | 402  | 385  | 382  | 3.02 | 3.0 | 0.8  | 1   | 75 | -0.2 | -0.96 | 5.9 | 160   | YOSEMITE JERSEY DAIRY      | CA   |
| 1.087 ALL LYNN'S RENEGADE VOGUE-ET       | 117423066       | 3K  |     | 1409   | 1   | 70  | 1,293 | 0.09  | 76  | 0.01  | 47   | 440  | 406  | 390  | 3.09 | 2.0 | -1.0 | 1   | 77 | 0.8  | -1.14 | 7.5 | 160   | ALLEN, DAVID               | WI   |
| 1.088 GR CMR DALE DARLINE BETTY          | 116570363       | 3K  |     | 449    | 2   | 67  | 1,200 | -0.03 | 49  | 0.02  | 47   | 409  | 365  | 343  | 3.14 | 2.7 | 0.6  | 2   | 75 | 0.3  | -0.05 | 4.4 | 160   | REESE, COY M               | NC   |
| 1.089 DP LOUIES CHAMP FRAN 583           | 116701578       | 3K  |     | 583    | 2   | 72  | 1,448 | -0.05 | 56  | -0.04 | 46   | 360  | 345  | 340  | 2.98 | 0.8 | -0.4 | 2   | 90 | 1.0  | 1.43  | 8.8 | 160   | DESERT PARK JERSEYS        | OR   |
| 1.090 FOREST GLEN VIRGILS CASSIE         | 067323985       | 3K  |     | 3985   | 1   | 69  | 1,669 | -0.14 | 49  | -0.08 | 45   | 378  | 402  | 441  | 3.18 | 3.5 | -0.6 | 1   | 81 | 0.1  | -0.09 | 6.0 | 160   | FOREST GLEN JERSEYS        | OR   |
| 1.091 GR FARIA BROTHERS VALENTINO BROOKE | 840003008321447 | 3K  |     | 100340 | 1   | 66  | 1,275 | -0.03 | 51  | -0.01 | 44   | 377  | 355  | 349  | 3.10 | 2.5 | -0.8 | 1   | 85 | 1.6  | 1.87  | 4.6 | 160   | FARIA DAIRY                | AZ   |
| 1.092 GR FARIA BROTHERS SEVILLE 100988   | 840003008322095 | 6K  | F   | 100988 | 1   | 56  | 1,170 | -0.09 | 36  | 0.01  | 43   | 370  | 335  | 314  | 3.02 | 1.8 | 0.2  | 0   |    | 0.5  | 2.83  | 0.3 | 160   | FARIA DAIRY                | AZ   |
| 1.093 PR FARIA BROTHERS TBONE 18871      | 840003001576816 | 3K  |     | 18871  | 3   | 63  | 1,592 | -0.10 | 51  | -0.08 | 41   | 338  | 356  | 374  | 2.87 | 1.2 | 0.0  | 0   |    | 0.9  | 2.22  | 3.2 | 160   | FARIA DAIRY                | AZ   |
| 1.094 GR FARIA BROTHERS TBONE 19562      | 840003001577507 | 3K  |     | 19562  | 3   | 68  | 1,253 | -0.03 | 51  | -0.02 | 41   | 372  | 353  | 344  | 2.97 | 1.6 | 0.3  | 0   | 86 | 1.4  | 2.64  | 4.3 | 160   | FARIA DAIRY                | AZ   |
| 1.095 PR FARIA BROTHERS MAXIMUM 63259    | 840003005642356 | 6K  | F   | 63259  | 2   | 59  | 1,205 | 0.07  | 68  | 0.00  | 41   | 427  | 403  | 391  | 3.02 | 2.0 | 0.3  | 2   | 85 | 0.1  | 0.17  | 1.8 | 160   | FARIA BROS DAIRIES         | TX   |
| 1.096 DUTCH HOLLOW IMAGINE JUDY-P        | 116783914       | 8K  | F   | 3925   | 3   | 73  | 1,065 | -0.10 | 30  | 0.02  | 41   | 332  | 302  | 293  | 3.20 | 1.7 | 0.5  | 2   | 88 | 2.1  | 4.44  | 7.6 | 160   | CHITTENDEN, NATHAN GIBSON  | NY   |
| 1.097 AVI-LANCHE KILOWATT HORIZO 22105   | 067422105       | 3K  |     | 22105  | 1   | 70  | 992   | 0.02  | 50  | 0.03  | 41   | 443  | 390  | 350  | 2.95 | 2.8 | -0.8 | 1   | 85 | 0.9  | 1.80  | 9.4 | 160   | AVILA RICHARD & JENNIFER M | TX   |
| 1.098 FOREST GLEN IMPULS GRAND           | 067323052       | 8K  | F   | 3052   | 2   | 72  | 830   | -0.04 | 32  | 0.05  | 41   | 409  | 352  | 317  | 3.18 | 2.6 | 1.3  | 1   | 79 | 0.4  | 1.47  | 5.7 | 160   | BANSEN STANLEY K & DORA H  | OR   |
| 1.099 HEARTLAND VIRGIL DORRIE            | 067262485       | 6K  | F   | 2485   | 1   | 69  | 1,529 | -0.07 | 57  | -0.07 | 40   | 360  | 390  | 433  | 3.18 | 3.0 | -0.6 | 0   | 78 | 0.8  | 1.47  | 6.4 | 160   | ENNEKING, ANTHONY          | KS   |
| 1.100 DALHART SPARKY 32826               | 067432826       | 6K  | F   | 32826  | 1   | 72  | 1,298 | -0.08 | 45  | -0.03 | 40   | 340  | 330  | 328  | 2.97 | 1.3 | -0.7 | 1   | 83 | 1.5  | 3.95  | 8.8 | 160   | AHLEM, MARK                | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |                           |      |
|--|-----------------|-----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|---------------------------|------|
|  |                 |     |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                       | GJPI |
| 1,101 AHLEM LEGAL COED 36549             | 070048023       | 8K  | F   | 36549  | 1   | 67  | 1,147 | -0.07 | 40  | -0.01 | 40   | 371  | 348  | 339  | 3.05 | 2.7  | 0.4  | 1   | 78 | 1.3  | 3.73  | 4.8   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,102 CAL-MART PLUS MIKHAIL 5087         | 067125087       | 8K  | F   | 5087   | 1   | 73  | 1,390 | -0.09 | 48  | -0.06 | 38   | 351  | 363  | 383  | 3.01 | 2.2  | -0.2 | 0   |    | 1.4  | 3.05  | 9.7   | 160 | MARTIN DAIRY LLC          | OR   |
| 1,103 HI-LAND IMPULS MICHIGAN            | 067146330       | 3K  |     | 6330   | 2   | 66  | 1,300 | -0.11 | 37  | -0.04 | 38   | 375  | 376  | 385  | 3.02 | 2.7  | 0.7  | 1   | 82 | 0.5  | 2.23  | 3.5   | 160 | CHAMBERLAIN, DAVID R      | NY   |
| 1,104 MULTI-ROSE VALENTINO 3873-ET       | 840003004599371 | 3K  |     | 3873   | 1   | 69  | 1,170 | -0.02 | 50  | -0.02 | 37   | 407  | 386  | 369  | 2.84 | 2.8  | -1.2 | 1   | 85 | 1.9  | 3.34  | 8.3   | 160 | HEARTLAND JERSEYS         | KS   |
| 1,105 AHLEM LEGAL ROSANNA 35796          | 069043002       | 3K  |     | 35796  | 1   | 67  | 823   | -0.03 | 32  | 0.03  | 37   | 429  | 381  | 348  | 3.06 | 3.9  | 0.7  | 1   | 74 | 1.3  | 2.71  | 6.3   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,106 FOREST GLEN LOUIES GOLDIE          | 067354622       | 8K  | C   | 4622   | 1   | 70  | 1,191 | -0.05 | 46  | -0.03 | 36   | 430  | 420  | 413  | 2.88 | 3.9  | 0.0  | 0   |    | 0.7  | 1.83  | 7.5   | 160 | BANSEN STANLEY K & DORA H | OR   |
| 1,107 SCHULTZ ECLIPES RAYNNI-P           | 067671130       | 8K  | F   | 1130   | 1   | 71  | 1,114 | 0.06  | 64  | -0.02 | 36   | 447  | 428  | 415  | 2.93 | 3.2  | 0.1  | 0   | 80 | 1.0  | 0.77  | 7.7   | 160 | HUFFARD DAIRY FARMS       | VA   |
| 1,108 JAKES BETTY                        | 117446250       | 8K  | C   | 124    | 1   | 73  | 1,102 | 0.04  | 57  | -0.01 | 36   | 425  | 399  | 374  | 2.79 | 2.1  | -1.0 | 0   |    | 1.4  | 3.00  | 9.3   | 160 | MAXWELL ALLISON & EMILY   | IA   |
| 1,109 HEARTLAND LOUIE CARINA             | 067342195       | 3K  |     | 90026  | 1   | 71  | 1,201 | -0.05 | 45  | -0.04 | 35   | 430  | 423  | 420  | 2.87 | 4.2  | 0.0  | 2   | 83 | 0.9  | 2.11  | 8.1   | 160 | STEER, ALEX               | TX   |
| 1,110 CINNAMON RIDGE SPARKY IRIS         | 117284696       | 8K  | F   | 846    | 0   | 67  | 1,072 | -0.05 | 40  | -0.02 | 35   | 385  | 365  | 352  | 2.92 | 2.8  | -0.6 | 0   | 82 | 1.3  | 3.90  | 8.9   | 160 | MAXWELL AMY & KARA        | IA   |
| 1,111 BUTTERCREST LEGAL ZERO             | 067128559       | 8K  | F   | 559    | 1   | 69  | 1,057 | -0.07 | 33  | -0.01 | 35   | 426  | 412  | 408  | 3.02 | 3.9  | 1.9  | 1   | 78 | 0.6  | 1.57  | 6.0   | 160 | GARDNER MARK & SHANNON    | PA   |
| 1,112 JOVINA MILITIA LAYNE               | 116778006       | 8K  | F   | 883    | 2   | 73  | 964   | 0.07  | 58  | 0.01  | 35   | 436  | 409  | 396  | 3.05 | 2.8  | 0.9  | 2   | 88 | 0.8  | 1.82  | 6.9   | 160 | JAMES, JASON & LEAH       | WI   |
| 1,113 HILMAR BENEFACOR 25426             | 067325426       | 6K  | F   | 25426  | 2   | 74  | 891   | -0.04 | 34  | 0.01  | 35   | 377  | 343  | 321  | 3.02 | 2.3  | -0.9 | 2   | 88 | 2.1  | 6.18  | 9.0   | 160 | AHLEM, CHARLES            | CA   |
| 1,114 D&E LEGAL BLITZEN 22234-ET         | 067422234       | 3K  |     | 22234  | 1   | 68  | 856   | 0.01  | 41  | 0.03  | 35   | 420  | 376  | 343  | 2.96 | 3.0  | 0.1  | 1   | 84 | 1.5  | 3.49  | 6.6   | 160 | D & E JERSEYS             | TX   |
| 1,115 YOSEMITE TUESDAY MAX H4228         | 840003001469744 | 3K  |     | 4228   | 4   | 76  | 988   | 0.02  | 50  | -0.01 | 34   | 489  | 460  | 435  | 2.85 | 3.8  | 1.1  | 2   | 90 | 0.2  | -0.01 | 8.0   | 160 | YOSEMITE JERSEY DAIRY     | CA   |
| 1,116 CAL-MART VIBRANT CALLEE 3561       | 117216402       | 3K  |     | 3561   | 2   | 72  | 783   | 0.03  | 42  | 0.03  | 34   | 470  | 414  | 366  | 2.84 | 3.9  | -0.2 | 2   | 83 | 0.3  | 1.92  | 8.2   | 160 | MARTIN DAIRY LLC          | OR   |
| 1,117 SR LEGAL PERFUME                   | 117608298       | 6K  | F   | 500    | 1   | 71  | 1,144 | -0.13 | 27  | -0.04 | 33   | 389  | 382  | 375  | 2.82 | 3.3  | 0.2  | 1   | 79 | 1.8  | 4.76  | 7.3   | 160 | PETERS, COLE LOGAN        | PA   |
| 1,118 PR FARIA BROTHERS MAXIMUM 17108    | 840003001575053 | 6K  | F   | 17108  | 4   | 65  | 973   | 0.10  | 63  | 0.00  | 33   | 484  | 453  | 422  | 2.76 | 3.0  | -0.6 | 0   |    | 1.1  | 2.18  | 3.0   | 160 | FARIA DAIRY               | AZ   |
| 1,119 FOREST GLEN ALEXANDERS STACY       | 067354731       | 6K  | F   | 4731   | 1   | 70  | 970   | -0.07 | 31  | -0.01 | 33   | 504  | 474  | 446  | 2.81 | 5.1  | 1.4  | 0   | 76 | 0.5  | 0.10  | 7.5   | 160 | BANSEN, DAN K             | OR   |
| 1,120 K&K LEGAL 3412                     | 067203412       | 8K  | C   | 34120  | 0   | 63  | 894   | -0.03 | 33  | 0.00  | 33   | 386  | 354  | 331  | 2.96 | 2.6  | 0.8  | 3   | 80 | 1.3  | 4.62  | 6.1   | 160 | MULTI ROSE JERSEYS INC    | IA   |
| 1,121 REFUGE IMPULS 9412                 | 117130643       | 8K  | F   | 9412   | 2   | 71  | 524   | 0.17  | 56  | 0.07  | 33   | 507  | 430  | 365  | 2.92 | 3.0  | 0.5  | 2   | 84 | 1.2  | 2.08  | 5.6   | 160 | REFUGE DAIRY              | TX   |
| 1,122 DUTCH HOLLOW VALENTINO MIDA-P      | 067184570       | 8K  | C   | 4570   | 1   | 72  | 1,154 | -0.07 | 39  | -0.06 | 32   | 394  | 396  | 401  | 2.89 | 3.4  | -0.3 | 0   | 84 | 1.6  | 3.60  | 9.3   | 160 | CHITTENDEN, MELANIE F     | WI   |
| 1,123 JENKS CONTROL BRIDGET              | 117299559       | 3K  |     | 2223   | 1   | 73  | 800   | 0.05  | 45  | 0.02  | 32   | 440  | 399  | 363  | 2.86 | 3.0  | 0.1  | 1   | 81 | 1.0  | 3.29  | 9.7   | 160 | JENKS, WILLIAM H (JIM)    | NY   |
| 1,124 AHLEM IMPULS MICKI 31626           | 066069010       | 3K  |     | 31626  | 3   | 69  | 346   | 0.21  | 55  | 0.10  | 32   | 527  | 443  | 380  | 3.10 | 3.8  | 1.6  | 2   | 82 | 0.9  | 1.72  | 4.5   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,125 HEARTLAND VALENTINO BROOK          | 067262327       | 8K  | F   | 2327   | 1   | 72  | 1,101 | -0.16 | 21  | -0.05 | 31   | 355  | 357  | 363  | 2.93 | 3.6  | -0.5 | 1   | 85 | 2.3  | 6.04  | 8.7   | 160 | ROWLEY, STEVE             | MS   |
| 1,126 CAL-MART JACE DONNELLE 9702        | 115610639       | GI  |     | 164    | 4   | 68  | 1,024 | 0.04  | 55  | -0.03 | 31   | 469  | 457  | 445  | 2.82 | 4.3  | -0.1 | 2   | 87 | 0.9  | 2.03  | 5.9   | 160 | MARTIN DAIRY LLC          | OR   |
| 1,127 AHLEM LEGAL PHOEBE 37562           | 070049036       | 8K  | F   | 37562  | 1   | 70  | 891   | -0.05 | 30  | 0.00  | 31   | 421  | 389  | 357  | 2.79 | 3.0  | 1.5  | 0   | 86 | 1.4  | 3.61  | 7.6   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,128 PR FARIA BROTHERS APPARITION 58058 | 840003006316608 | 6K  | F   | 58058  | 2   | 64  | 821   | 0.09  | 54  | 0.01  | 31   | 522  | 479  | 437  | 2.75 | 4.1  | 0.9  | 1   | 78 | 0.4  | 0.31  | 2.7   | 160 | FARIA BROS DAIRIES        | TX   |
| 1,129 GR FARIA BROTHERS TBONE 19435      | 840003001577380 | 6K  | F   | 19435  | 3   | 72  | 793   | 0.10  | 56  | 0.01  | 30   | 436  | 402  | 374  | 2.90 | 3.0  | -0.6 | 0   |    | 1.5  | 4.25  | 6.3   | 160 | FARIA BROS DAIRIES        | TX   |
| 1,130 SHAN-MAR ALLSTAR CLAUDETTE         | 067100393       | 8K  | F   | 393    | 2   | 74  | 451   | 0.30  | 76  | 0.07  | 30   | 507  | 427  | 355  | 2.80 | 1.7  | -0.4 | 2   | 88 | 1.2  | 3.35  | 8.6   | 160 | GARDNER MARK & SHANNON    | PA   |
| 1,131 HARMONY VALLEY UPPERCUT BOP 7430   | 069402142       | 3K  |     | 37430  | 1   | 69  | 492   | 0.10  | 41  | 0.05  | 29   | 486  | 421  | 364  | 2.87 | 3.9  | 0.4  | 1   | 85 | 1.8  | 3.72  | 7.4   | 160 | 2 TO TOO GIRLS            | CA   |
| 1,132 CINNAMON RIDGE BONAR BAMBI         | 117284632       | 8K  | F   | 842    | 1   | 70  | 603   | 0.11  | 48  | 0.03  | 28   | 502  | 452  | 407  | 2.83 | 4.0  | 1.1  | 1   | 78 | 0.6  | 2.53  | 6.3   | 160 | MAXWELL AMY & KARA        | IA   |
| 1,133 AHLEM MILITIA MINDY 19302          | 064552856       | 3K  |     | 19302  | 4   | 73  | 591   | 0.12  | 48  | 0.04  | 28   | 475  | 429  | 394  | 2.99 | 3.8  | 0.6  | 2   | 84 | 1.4  | 3.73  | 7.6   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,134 AHLEM SULTAN DUSTY 33653           | 066623086       | 8K  | F   | 33653  | 2   | 74  | 194   | 0.26  | 56  | 0.11  | 28   | 515  | 425  | 352  | 3.04 | 3.3  | 0.6  | 3   | 86 | 1.8  | 4.56  | 7.7   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,135 AHLEM HEADLINE VETTE 35528-ET      | 069042734       | 3K  |     | 35528  | 1   | 71  | 1,112 | -0.12 | 28  | -0.08 | 26   | 432  | 457  | 481  | 2.93 | 5.9  | 1.0  | 1   | 85 | 1.6  | 3.34  | 10.5  | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,136 AHLEM LEGAL RUTH 37900             | 070049374       | 8K  | F   | 37900  | 0   | 64  | 282   | 0.06  | 25  | 0.04  | 16   | 473  | 434  | 398  | 2.87 | 5.0  | 1.9  | 0   | 83 | 2.0  | 7.54  | 6.7   | 160 | AHLEM, WILLIAM JR         | CA   |
| 1,137 PR HILMAR TBONE 17365              | 067217365       | 6K  | F   | 17365  | 4   | 75  | 1,376 | -0.01 | 61  | 0.02  | 52   | 312  | 271  | 251  | 3.12 | -0.7 | -1.5 | 2   | 86 | 1.6  | 3.00  | 6.9   | 159 | AHLEM, CHARLES            | CA   |
| 1,138 FOREST GLEN IMPULS MARTHA          | 067481112       | 3K  |     | 1112   | 3   | 70  | 1,187 | -0.03 | 50  | 0.04  | 49   | 403  | 351  | 324  | 3.16 | 2.0  | -0.1 | 2   | 80 | -0.1 | -0.16 | 5.0   | 159 | FOREST GLEN JERSEYS       | OR   |
| 1,139 PR FARIA BROTHERS MAXIMUM 17494    | 840003001575439 | 6K  | F   | 30629  | 4   | 66  | 1,425 | 0.06  | 77  | -0.01 | 48   | 360  | 337  | 331  | 3.07 | -0.1 | -0.4 | 0   | 82 | 0.6  | 0.75  | 2.8   | 159 | FARIA DAIRY               | AZ   |
| 1,140 ALL LYNNS CHERRY CHAMP VIGGE-ET    | 117655348       | 3K  |     | 1461   | 1   | 71  | 1,339 | 0.00  | 61  | -0.01 | 46   | 344  | 328  | 332  | 3.19 | 0.9  | -1.2 | 1   | 83 | 1.1  | 2.20  | 10.1  | 159 | ALLEN, DAVID              | WI   |
| 1,141 GR FARIA BROTHERS MAXIMUM 102956   | 840003008536324 | 6K  | F   | 102956 | 1   | 54  | 1,233 | 0.10  | 76  | 0.00  | 44   | 378  | 350  | 339  | 3.08 | 1.0  | -0.4 | 1   | 76 | 0.5  | 1.14  | 0.0   | 159 | FARIA BROS DAIRIES        | TX   |
| 1,142 CAL-MART VIBRANT DERYN 3556        | 117216354       | 3K  |     | 3556   | 1   | 71  | 1,791 | -0.17 | 50  | -0.11 | 43   | 365  | 397  | 433  | 2.93 | 2.5  | -1.0 | 1   | 76 | 0.3  | 0.20  | 8.7   | 159 | MARTIN DAIRY LLC          | OR   |
| 1,143 GR WAUNAKEE DALE PETTY 2333-ET     | 066438859       | 50K | F   | 2333   | 3   | 75  | 1,284 | -0.08 | 45  | -0.01 | 43   | 436  | 409  | 392  | 2.94 | 3.2  | 0.5  | 2   | 90 | 0.1  | -0.16 | 5.9   | 159 | LAUFENBERG, GERALD        | WI   |
| 1,144 CAL-MART VALENTINO BERTHA 3607-ET  | 117357754       | 3K  |     | 3607   | 1   | 69  | 1,194 | -0.03 | 49  | -0.01 | 42   | 358  | 337  | 335  | 3.16 | 2.0  | -0.1 | 1   | 84 | 1.9  | 3.21  | 6.4   | 159 | MARTIN DAIRY LLC          | OR   |
| 1,145 FOREST GLEN ABES ADA               | 067282961       | 3K  |     | 2961   | 2   | 68  | 892   | 0.07  | 55  | 0.05  | 42   | 425  | 359  | 312  | 3.03 | 1.7  | -0.1 | 1   | 80 | 0.7  | 0.94  | 4.9   | 159 | BANSEN, DAN K             | OR   |
| 1,146 GR DUTCH HOLLOW VACATION ZETTA     | 067184493       | 8K  | F   | 4493   | 1   | 66  | 1,138 | -0.03 | 48  | 0.00  | 41   | 411  | 370  | 333  | 2.79 | 3.1  | -1.1 | 1   | 74 | 1.2  | 2.49  | 3.2   | 159 | CHITTENDEN ALAN & DONNA   | NY   |
| 1,147 FOREST GLEN VICTORY MEG            | 067282884       | 8K  | F   | 2884   | 2   | 73  | 1,028 | 0.01  | 49  | 0.02  | 41   | 386  | 341  | 311  | 3.01 | 1.8  | -0.8 | 2   | 90 | 0.9  | 3.26  | 7.5   | 159 | FOREST GLEN JERSEYS       | OR   |
| 1,148 HAWARDEN TBONE JODY                | 067107523       | 3K  |     | 523    | 2   | 72  | 994   | -0.03 | 40  | 0.03  | 41   | 371  | 326  | 300  | 3.09 | 2.1  | 0.0  | 1   | 86 | 1.4  | 2.66  | 10.3  | 159 | HAWARDEN JERSEYS INC      | ID   |
| 1,149 SHAN-MAR ZACK TORALORA             | 067132137       | 3K  |     | 137    | 4   | 74  | 1,538 | -0.11 | 51  | -0.08 | 40   | 347  | 372  | 407  | 3.11 | 1.8  | 0.8  | 2   | 85 | 0.5  | 1.02  | 7.4   | 159 | GARDNER MARK & SHANNON    | PA   |
| 1,150 PR CAL-MART IATOLA JULENE 9949     | 115883714       | 8K  | F   | 1011   | 4   | 72  | 1,162 | 0.06  | 66  | -0.02 | 40   | 408  | 380  | 361  | 2.93 | 0.8  | -0.2 | 2   | 91 | 1.1  | 1.95  | 3.6   | 159 | MARTIN DAIRY LLC          | OR   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                       | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      |       | Owner | ST  |  |      |
|--|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|-------|-----|--|------|
|  |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI  | GJPI |
| 1,151 MOON MEADOW VIBRANT VIRGIE           | 117459867       | 3K  |     | 5222  | 1   | 68  | 1,391 | -0.03 | 59  | -0.05 | 39   | 400  | 399  | 402  | 2.89 | 2.3 | -0.3 | 1   | 81 | 0.2  | 0.89  | 7.1   | 159 | VALLEY BROTHERS LLC / VISSER JEREMY & GERALD | WA   |
| 1,152 WINDHAVENS VIBRANT HORTENSE-ET       | 117347850       | 8K  | F   | 693   | 0   | 69  | 1,492 | -0.18 | 34  | -0.08 | 38   | 372  | 397  | 427  | 3.00 | 4.0 | -0.4 | 1   | 76 | 0.2  | 1.10  | 8.7   | 159 | GREENE, WAYNE JR                             | WI   |
| 1,153 BLACKSTONE STELLA                    | 067067042       | 8K  | F   | 7042  | 4   | 77  | 1,160 | -0.14 | 28  | -0.02 | 38   | 348  | 335  | 337  | 3.11 | 2.7 | 0.0  | 3   | 94 | 2.1  | 4.44  | 9.5   | 159 | WETMORE, STEVEN T                            | NC   |
| 1,154 BLUE MIST VALENTINO MADDY-3-ET       | 117699948       | 8K  | C   | 1430  | 1   | 72  | 1,146 | 0.04  | 61  | -0.01 | 38   | 437  | 415  | 402  | 2.97 | 3.2 | -1.0 | 0   | 82 | 1.2  | 2.13  | 7.5   | 159 | GOMES, EDDIE                                 | OR   |
| 1,155 JANICES LEGAL SAND 22173             | 067422173       | 3K  |     | 22173 | 1   | 66  | 782   | 0.05  | 44  | 0.05  | 38   | 461  | 399  | 354  | 3.02 | 3.1 | 0.6  | 0   | 85 | 0.9  | 1.85  | 6.1   | 159 | RECTOR JERSEY FARM                           | CA   |
| 1,156 PR ROC-BOT RENEGADE 5487             | 067195487       | 8K  | F   | 5487  | 1   | 68  | 628   | 0.23  | 73  | 0.08  | 38   | 440  | 367  | 318  | 3.15 | 1.6 | -0.3 | 1   | 70 | 1.7  | 2.62  | 5.1   | 159 | ROCK BOTTOM DAIRY                            | IA   |
| 1,157 MULTI-ROSE LEGAL 3910                | 840003004599334 | 8K  | F   | 3910  | 0   | 60  | 1,237 | -0.11 | 36  | -0.03 | 37   | 357  | 348  | 346  | 2.94 | 2.3 | -0.1 | 2   | 85 | 2.1  | 4.78  | 5.4   | 159 | MULTI ROSE JERSEYS INC                       | IA   |
| 1,158 GR HILMAR IMPULS 20126               | 067320126       | 6K  | C   | 20126 | 4   | 73  | 886   | 0.16  | 71  | 0.03  | 37   | 484  | 436  | 401  | 2.99 | 2.5 | 0.8  | 2   | 83 | -0.2 | -0.79 | 4.5   | 159 | AHLEM, CHARLES                               | CA   |
| 1,159 WOODSTOCK IMPULS MAID-ET             | 115413849       | 3K  |     | 3674  | 4   | 74  | 414   | 0.14  | 45  | 0.11  | 37   | 441  | 347  | 278  | 3.15 | 2.4 | 0.6  | 2   | 88 | 1.3  | 4.17  | 5.4   | 159 | HEINZ, LLOYD                                 | WI   |
| 1,160 HI-LAND BLAIR FIELDER                | 067095563       | 3K  |     | 5563  | 4   | 74  | 897   | 0.06  | 52  | 0.02  | 36   | 420  | 383  | 360  | 3.04 | 2.2 | 0.6  | 2   | 90 | 1.0  | 2.28  | 8.4   | 159 | CHAMBERLAIN GREG & DAVID                     | NY   |
| 1,161 GR FARIA BROTHERS ROCKET 26639       | 840003004251261 | 6K  | F   | 26639 | 3   | 72  | 681   | 0.25  | 77  | 0.06  | 36   | 508  | 439  | 383  | 2.94 | 2.3 | -0.5 | 0   |    | 0.7  | 1.13  | 5.7   | 159 | FARIA BROS DAIRIES                           | TX   |
| 1,162 CLOVER PATCH HEADLINES KIA           | 117676455       | 8K  | F   | 2109  | 1   | 69  | 1,263 | -0.12 | 35  | -0.06 | 35   | 357  | 371  | 395  | 3.10 | 4.1 | 0.2  | 0   | 84 | 1.5  | 3.84  | 6.6   | 159 | KOZAK, ALAN                                  | OH   |
| 1,163 VALSIGNA SPARKY 17323                | 117553002       | 3K  |     | 17323 | 1   | 70  | 740   | 0.06  | 45  | 0.05  | 35   | 439  | 384  | 344  | 3.01 | 3.0 | -0.5 | 1   | 77 | 1.3  | 3.14  | 8.8   | 159 | WICKSTROM DAIRIES, LP                        | CA   |
| 1,164 AHLEM LEGAL BELLA 35845              | 069043051       | 8K  | F   | 35845 | 1   | 71  | 762   | 0.06  | 46  | 0.02  | 33   | 421  | 375  | 339  | 2.94 | 2.3 | 0.7  | 1   | 84 | 1.6  | 4.61  | 7.6   | 159 | AHLEM, WILLIAM JR                            | CA   |
| 1,165 MS ABE 4480 F443                     | 116429238       | 3K  |     | 6443  | 3   | 72  | 601   | 0.13  | 53  | 0.06  | 33   | 521  | 453  | 399  | 2.96 | 4.3 | 0.3  | 2   | 86 | 0.7  | 1.20  | 6.4   | 159 | MOUNTAIN SHADOW DAIRY                        | AZ   |
| 1,166 WOODSTOCK IMPULS LOLA                | 116563668       | 3K  |     | 1109  | 3   | 67  | 352   | 0.19  | 52  | 0.11  | 33   | 527  | 427  | 342  | 2.91 | 3.3 | 0.7  | 2   | 87 | 1.2  | 2.05  | 4.1   | 159 | WOODS, GREG                                  | OR   |
| 1,167 WAUNAKEE LOUIE PATRICIA 2735         | 069535036       | 3K  |     | 2735  | 1   | 69  | 1,098 | -0.01 | 48  | -0.03 | 32   | 431  | 421  | 410  | 2.80 | 2.9 | 0.6  | 1   | 86 | 1.4  | 2.93  | 8.0   | 159 | LAUFENBERG, GERALD                           | WI   |
| 1,168 GR FARIA BROTHERS RENEGADE 90695     | 840003008303805 | 6K  | F   | 90695 | 1   | 67  | 788   | 0.12  | 59  | 0.02  | 32   | 449  | 406  | 367  | 2.84 | 2.2 | -0.1 | 1   | 84 | 1.4  | 3.17  | 3.8   | 159 | FARIA BROS DAIRIES                           | TX   |
| 1,169 VALSIGNA SPARKY 18426                | 117776977       | 6K  | F   | 18426 | 0   | 65  | 686   | 0.15  | 60  | 0.03  | 32   | 463  | 410  | 367  | 2.91 | 2.7 | 0.5  | 0   | 77 | 0.9  | 2.18  | 8.2   | 159 | WICKSTROM DAIRIES, LP                        | CA   |
| 1,170 AHLEM LEGAL BINKIE 35448             | 069042654       | 8K  | F   | 35448 | 2   | 72  | 632   | 0.03  | 35  | 0.05  | 32   | 428  | 372  | 329  | 2.99 | 2.8 | 0.2  | 1   | 86 | 1.8  | 5.11  | 7.3   | 159 | AHLEM, WILLIAM JR                            | CA   |
| 1,171 GABYS TBONE BUTTERCUP-ET             | 116842763       | 3K  |     | 1707  | 2   | 72  | 493   | 0.18  | 55  | 0.07  | 32   | 453  | 378  | 316  | 2.96 | 2.0 | 0.0  | 2   | 90 | 1.9  | 4.16  | 9.8   | 159 | MILLER LEROY & MARTHA SUE                    | OH   |
| 1,172 GR RED TOP GANNON 13042              | 067413042       | 3K  |     | 13042 | 2   | 72  | 1,205 | -0.04 | 50  | -0.06 | 31   | 408  | 414  | 417  | 2.79 | 3.1 | 0.4  | 2   | 83 | 1.1  | 2.57  | 6.5   | 159 | RED TOP JERSEYS                              | CA   |
| 1,173 SUN VALLEY HEADLINE HOLLY 1-ET       | 117744022       | 3K  |     | 2857  | 1   | 70  | 1,119 | -0.10 | 33  | -0.05 | 31   | 404  | 412  | 426  | 3.01 | 4.4 | 1.0  | 0   | 76 | 1.5  | 3.10  | 8.0   | 159 | SEALS THOMAS L & JENNIE L                    | OR   |
| 1,174 RACHELLES ACTION 8247                | 053378247       | 8K  | F   | 8247  | 5   | 76  | 1,113 | -0.07 | 38  | -0.04 | 31   | 450  | 445  | 438  | 2.77 | 4.8 | 0.0  | 0   |    | 1.0  | 2.36  | 7.7   | 159 | DELTA VIEW FARMS                             | CA   |
| 1,175 AHLEM ECLIPES MINDY 37534            | 070049008       | 3K  |     | 37534 | 1   | 69  | 617   | 0.16  | 59  | 0.04  | 31   | 421  | 378  | 354  | 3.16 | 2.9 | -0.7 | 0   | 80 | 2.1  | 5.46  | 8.6   | 159 | AHLEM, WILLIAM JR                            | CA   |
| 1,176 CAL-MART LOTTO BABA 3467             | 117163731       | 3K  |     | 3467  | 2   | 71  | 390   | 0.23  | 61  | 0.09  | 31   | 558  | 467  | 384  | 2.78 | 4.0 | 0.3  | 1   | 74 | 0.5  | 1.22  | 8.3   | 159 | MARTIN DAIRY LLC                             | OR   |
| 1,177 MILLS LOUIE ANILEE                   | 117312957       | 3K  |     | 6989  | 2   | 69  | 1,153 | 0.13  | 75  | -0.06 | 30   | 521  | 530  | 539  | 2.87 | 4.9 | 0.3  | 1   | 82 | 0.4  | -0.33 | 5.9   | 159 | MILLS JERSEY FARM LLC                        | NV   |
| 1,178 FOREST GLEN LEGAL LILLY              | 067354220       | 8K  | F   | 4220  | 1   | 71  | 468   | 0.11  | 43  | 0.06  | 27   | 470  | 408  | 354  | 2.89 | 3.9 | -0.1 | 0   | 82 | 2.5  | 5.51  | 8.0   | 159 | BANSEN STANLEY K & DORA H                    | OR   |
| 1,179 HILMAR SPARKY 33843                  | 067433843       | 6K  | F   | 33843 | 1   | 71  | 393   | 0.21  | 58  | 0.07  | 26   | 487  | 421  | 366  | 2.92 | 3.0 | -0.4 | 0   | 83 | 1.5  | 4.40  | 8.3   | 159 | AHLEM, CHARLES                               | CA   |
| 1,180 AHLEM CELEBRITY MAID 34645-ET        | 069041851       | 3K  |     | 34645 | 1   | 70  | 806   | 0.11  | 58  | -0.02 | 25   | 483  | 469  | 453  | 2.81 | 4.5 | -0.8 | 1   | 81 | 2.4  | 4.87  | 8.2   | 159 | FANELLI ROBERT & VICTOR AND GUELL ANIMAL BRE | CA   |
| 1,181 GOLDUST KARBALA LAYLA-ET             | 067382041       | 8K  | C   | 2041  | 1   | 73  | 379   | 0.20  | 54  | 0.06  | 24   | 456  | 391  | 330  | 2.80 | 2.2 | 0.5  | 1   | 83 | 1.9  | 5.69  | 8.3   | 159 | DESERT PARK JERSEYS                          | OR   |
| 1,182 CAL-MART LYNDON ZORA 3730-ET         | 117338489       | 3K  |     | 33730 | 1   | 69  | 747   | 0.02  | 38  | -0.02 | 23   | 474  | 456  | 433  | 2.74 | 4.5 | 1.1  | 1   | 82 | 1.2  | 3.98  | 7.0   | 159 | D & E JERSEYS                                | TX   |
| 1,183 AHLEM IATOLA CHARM 19566             | 064553120       | 3K  |     | 19566 | 4   | 74  | 416   | 0.14  | 46  | 0.05  | 23   | 431  | 381  | 338  | 2.91 | 2.8 | -0.3 | 3   | 90 | 2.1  | 7.64  | 8.3   | 159 | AHLEM, WILLIAM JR                            | CA   |
| 1,184 CLOVER PATCH MAXIMUM CARDS           | 116199678       | 3K  |     | 1356  | 4   | 72  | 259   | 0.26  | 62  | 0.07  | 23   | 542  | 478  | 428  | 3.03 | 4.4 | 1.1  | 2   | 91 | 1.5  | 2.66  | 6.8   | 159 | KOZAK, ALAN                                  | OH   |
| 1,185 SUNSET CANYON VITO ISIDRO            | 117468612       | 3K  |     | 1979  | 1   | 69  | 1,405 | -0.14 | 37  | 0.01  | 53   | 387  | 337  | 302  | 2.95 | 2.0 | -1.4 | 0   | 86 | 0.9  | -0.27 | 8.1   | 158 | SILVA, ERIC LEONARD                          | OR   |
| 1,186 D&E VANDYKE DAISY 22080              | 067422080       | 3K  |     | 22080 | 1   | 69  | 1,491 | -0.08 | 53  | -0.01 | 52   | 430  | 392  | 364  | 2.90 | 2.7 | -1.5 | 2   | 83 | 0.5  | -1.55 | 6.7   | 158 | D & E JERSEYS                                | TX   |
| 1,187 PR OOMSDALE BRAZO GRATITUDE GRACE-ET | 067027319       | 50K | F   | 319   | 4   | 70  | 1,686 | -0.16 | 46  | -0.04 | 51   | 302  | 303  | 321  | 3.13 | 1.7 | -0.3 | 3   | 90 | 0.8  | 1.09  | 0.1   | 158 | OOMS, MICHAEL AREND                          | NY   |
| 1,188 D&E ABE SONORA 2839                  | 067302839       | 8K  | C   | 2839  | 2   | 73  | 1,531 | -0.09 | 54  | -0.02 | 51   | 362  | 338  | 329  | 3.02 | 1.3 | -2.4 | 3   | 90 | 1.0  | 1.01  | 7.0   | 158 | D & E JERSEYS                                | TX   |
| 1,189 GR CLOVER PATCH ECLIPES TENDER       | 117771383       | 8K  | F   | 2236  | 1   | 71  | 1,382 | -0.07 | 52  | -0.01 | 49   | 297  | 270  | 264  | 3.16 | 0.3 | -0.5 | 0   | 81 | 1.9  | 3.12  | 9.9   | 158 | KOZAK, ALAN                                  | OH   |
| 1,190 GR AVI-LANCHE VIBRANT NEVADA 5111    | 067375111       | 8K  | F   | 5111  | 1   | 63  | 1,863 | -0.22 | 44  | -0.10 | 48   | 331  | 352  | 379  | 2.93 | 2.2 | -1.0 | 1   | 71 | -0.5 | -0.88 | 2.8   | 158 | AVILA RICHARD & JENNIFER M                   | TX   |
| 1,191 GR D&E GANNON CLAIRE 21642           | 067421642       | 3K  |     | 21642 | 2   | 71  | 1,675 | -0.12 | 55  | -0.06 | 47   | 378  | 376  | 378  | 2.85 | 2.0 | -0.1 | 2   | 83 | -0.4 | -1.59 | 5.6   | 158 | D & E JERSEYS                                | TX   |
| 1,192 GR WILSONVIEW GARDEN MARIBELLE-ET    | 067191504       | 3K  |     | 1504  | 3   | 68  | 1,476 | -0.16 | 37  | -0.04 | 47   | 333  | 332  | 354  | 3.27 | 3.5 | -0.1 | 2   | 80 | 0.4  | 2.07  | 3.1   | 158 | WILSONVIEW DAIRY                             | OR   |
| 1,193 GR WF GANNON STORMI                  | 116796530       | 3K  |     | 101   | 2   | 70  | 1,801 | -0.22 | 39  | -0.10 | 45   | 241  | 276  | 320  | 3.06 | 0.8 | 0.2  | 2   | 87 | 1.3  | 3.68  | 5.5   | 158 | WICKSTROM BROS                               | CA   |
| 1,194 GR BERGMAN GANNON 7958               | 067297958       | 3K  |     | 7958  | 1   | 66  | 1,745 | -0.16 | 51  | -0.09 | 45   | 270  | 298  | 335  | 3.06 | 1.4 | 0.0  | 1   | 79 | 0.8  | 2.68  | 4.6   | 158 | BERGMAN, HANNAH                              | CA   |
| 1,195 ALL LYNNS IMPULS VALENTINE-ET        | 116159960       | 6K  | F   | 1170  | 2   | 73  | 1,123 | -0.02 | 48  | 0.03  | 44   | 398  | 358  | 335  | 3.08 | 2.6 | -0.7 | 3   | 84 | 0.9  | 1.67  | 5.1   | 158 | ALLEN, DAVID                                 | WI   |
| 1,196 GR OOMSDLAIE TBONE CC COURTNEY-ET    | 067080477       | 3K  |     | 477   | 2   | 72  | 929   | 0.12  | 67  | 0.05  | 44   | 424  | 365  | 331  | 3.20 | 2.6 | -0.3 | 2   | 84 | 1.4  | 1.07  | 7.1   | 158 | HEINZ, LLOYD                                 | WI   |
| 1,197 D&E MERCHANT VIRTUE 22230-ET         | 067422230       | 3K  |     | 22230 | 1   | 70  | 978   | 0.08  | 59  | 0.04  | 43   | 400  | 344  | 307  | 3.   |     |      |     |    |      |       |       |     |  |      |



## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | CCN   | Rec | Rel | GPTA  |       |     |       |      |      |      | TYPE |      |      |      |     |    | Owner | ST    |      |     |                                     |      |
|--|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|-------|-------|------|-----|-------------------------------------|------|
|  |                 |     |     |       |     |     | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                                 | GJPI |
| 1,201 SUNSET CANYON VIBRANT DAFFY 922-ET | 117214950       | 50K | F   | 1922  | 1   | 74  | 1,419 | -0.06 | 54  | -0.05 | 41   | 381  | 386  | 402  | 3.07 | 2.9  | -0.3 | 1   | 86 | 0.7   | 0.49  | 8.0  | 158 | SUNSET CANYON & HALE KARA           | OR   |
| 1,202 YOSEMITE LEGAL BLAIR P24229        | 840003008443059 | 3K  |     | 24229 | 1   | 68  | 1,102 | -0.04 | 43  | 0.01  | 41   | 390  | 353  | 329  | 2.99 | 2.3  | -0.3 | 0   | 80 | 1.3   | 2.84  | 6.8  | 158 | YOSEMITE JERSEY DAIRY               | CA   |
| 1,203 AHLEM LEGAL ROSEA 37510            | 070048984       | 3K  |     | 37510 | 1   | 66  | 1,101 | 0.00  | 50  | 0.01  | 41   | 387  | 358  | 345  | 3.10 | 2.2  | 0.0  | 0   | 83 | 1.6   | 2.46  | 7.3  | 158 | AHLEM, WILLIAM JR                   | CA   |
| 1,204 CDF ABE QUE M28637                 | 840003006207853 | 3K  |     | 28637 | 2   | 66  | 803   | 0.18  | 72  | 0.07  | 41   | 481  | 407  | 351  | 3.00 | 1.8  | 0.0  | 2   | 82 | 0.1   | -0.56 | 4.1  | 158 | C & S LIVESTOCK                     | CA   |
| 1,205 CAL-MART VIRGIL CARLENE 5219-ET    | 067245219       | 6K  | C   | 5219  | 1   | 70  | 1,060 | 0.02  | 53  | 0.02  | 40   | 423  | 393  | 379  | 3.10 | 2.9  | -0.6 | 0   | 81 | 1.1   | 2.16  | 6.7  | 158 | MARTIN DAIRY LLC                    | OR   |
| 1,206 FOREST GLEN LOUIES CARMEN          | 067354505       | 3K  |     | 4505  | 1   | 67  | 1,192 | 0.04  | 62  | -0.02 | 39   | 460  | 444  | 439  | 3.00 | 4.1  | 0.2  | 0   | 83 | 0.4   | -0.28 | 5.8  | 158 | FOREST GLEN JERSEYS                 | OR   |
| 1,207 GR HILMAR APPLEJACK 26279          | 067326279       | 6K  | F   | 26279 | 1   | 70  | 746   | 0.12  | 59  | 0.06  | 39   | 369  | 306  | 266  | 3.16 | 0.0  | 0.6  | 1   | 87 | 1.9   | 4.19  | 6.7  | 158 | LEITZ, LISA                         | WA   |
| 1,208 MILLS VALENTINO ANNIE-ET           | 117504688       | 8K  | C   | 7172  | 1   | 72  | 874   | 0.06  | 51  | 0.04  | 38   | 471  | 410  | 356  | 2.82 | 2.7  | -0.6 | 1   | 83 | 1.5   | 2.39  | 9.5  | 158 | MILLS JERSEY FARM LLC               | NV   |
| 1,209 AHLEM IMAGE CHARM 33480            | 066622913       | 8K  | F   | 33480 | 2   | 70  | 800   | 0.25  | 87  | 0.05  | 38   | 507  | 442  | 392  | 2.95 | 1.9  | -0.4 | 2   | 77 | 0.6   | 0.22  | 6.4  | 158 | AHLEM, WILLIAM JR                   | CA   |
| 1,210 HEARTLAND VIBRANT NEVADA           | 067262429       | 6K  | F   | 32429 | 1   | 70  | 1,333 | 0.05  | 70  | -0.05 | 37   | 437  | 437  | 438  | 2.86 | 2.6  | -0.9 | 0   | 83 | 0.5   | 0.20  | 7.0  | 158 | D & E JERSEYS                       | TX   |
| 1,211 HEARTLAND LEGAL DUSTY              | 067232278       | 8K  | F   | 2278  | 1   | 72  | 1,316 | -0.12 | 38  | -0.05 | 37   | 404  | 407  | 415  | 2.94 | 3.7  | 0.8  | 1   | 85 | 1.3   | 1.67  | 8.1  | 158 | HEARTLAND JERSEYS                   | KS   |
| 1,212 GR GRAMMER DALE TOPPY              | 067353162       | 3K  |     | 3162  | 1   | 70  | 1,236 | -0.06 | 45  | -0.04 | 37   | 400  | 395  | 401  | 3.02 | 4.0  | 0.5  | 1   | 74 | 0.9   | 2.00  | 7.1  | 158 | GRAMMER JERSEY FARM LLC             | OH   |
| 1,213 GR DP VALINTINO DESTINY 940        | 067106940       | 8K  | F   | 940   | 1   | 71  | 1,193 | 0.06  | 66  | -0.03 | 37   | 366  | 358  | 358  | 2.99 | 1.0  | -0.1 | 1   | 83 | 1.8   | 3.54  | 7.5  | 158 | DESERT PARK JERSEYS                 | OR   |
| 1,214 VALSIGNA SPARKY 17561              | 117612329       | 3K  |     | 17561 | 1   | 70  | 1,121 | -0.06 | 41  | -0.01 | 37   | 335  | 324  | 328  | 3.11 | 1.6  | -0.2 | 1   | 81 | 1.6   | 4.16  | 8.9  | 158 | WICKSTROM DAIRIES, LP               | CA   |
| 1,215 AVI-LANCHE RENEGADE 4186           | 067334186       | 3K  |     | 4186  | 1   | 69  | 713   | 0.18  | 66  | 0.06  | 37   | 497  | 424  | 360  | 2.85 | 2.7  | 0.0  | 1   | 77 | 0.9   | 0.71  | 7.0  | 158 | AVILA RICHARD & JENNIFER M          | TX   |
| 1,216 MAXIMUM MANDY                      | 067102930       | 3K  |     | 2930  | 2   | 66  | 654   | 0.20  | 69  | 0.07  | 37   | 521  | 448  | 393  | 3.02 | 3.2  | -0.4 | 2   | 85 | 0.9   | 0.60  | 4.7  | 158 | MULTI ROSE JERSEYS INC              | IA   |
| 1,217 DP BUNGEE MARLA 964                | 067106964       | 8K  | F   | 964   | 1   | 70  | 1,071 | -0.01 | 47  | -0.01 | 36   | 443  | 422  | 410  | 2.98 | 3.8  | 0.8  | 0   | 84 | 1.1   | 1.51  | 8.8  | 158 | DESERT PARK JERSEYS                 | OR   |
| 1,218 AHLEM LEGAL SWAN 35944             | 069043150       | 8K  | C   | 35944 | 1   | 69  | 991   | -0.10 | 27  | 0.00  | 35   | 378  | 352  | 333  | 2.94 | 3.1  | 0.6  | 1   | 78 | 1.3   | 4.72  | 5.9  | 158 | AHLEM, WILLIAM JR                   | CA   |
| 1,219 HILMAR TBONE 24217                 | 067624217       | 6K  | F   | 24217 | 2   | 75  | 955   | 0.03  | 51  | 0.00  | 35   | 352  | 329  | 322  | 3.11 | 1.2  | 0.5  | 3   | 87 | 2.1   | 3.55  | 9.1  | 158 | AHLEM, CHARLES                      | CA   |
| 1,220 GR DUPAT GANNON 7647               | 067297647       | 3K  |     | 7647  | 1   | 63  | 1,149 | -0.01 | 50  | -0.04 | 34   | 408  | 403  | 402  | 2.92 | 3.5  | 0.6  | 1   | 78 | 0.8   | 1.93  | 2.9  | 158 | WICKSTROM JERSEY FARMS INC          | CA   |
| 1,221 CAL-MART LOUIE NATALIE 5345        | 067185345       | 6K  | C   | 5345  | 0   | 66  | 939   | 0.14  | 69  | 0.01  | 34   | 456  | 425  | 403  | 2.94 | 3.0  | -0.7 | 0   | 77 | 1.1   | 2.70  | 7.4  | 158 | MARTIN DAIRY LLC                    | OR   |
| 1,222 GR FARIA BROTHERS VICTORY 66802    | 840003007466541 | 6K  | F   | 66802 | 2   | 62  | 816   | -0.01 | 35  | 0.02  | 34   | 397  | 354  | 322  | 2.98 | 1.9  | 1.0  | 2   | 88 | 1.3   | 3.92  | 2.2  | 158 | FARIA BROS DAIRIES                  | TX   |
| 1,223 VALSIGNA SPARKY 17562              | 117614125       | 3K  |     | 17562 | 1   | 69  | 755   | 0.09  | 52  | 0.04  | 34   | 422  | 372  | 335  | 2.99 | 2.2  | -0.3 | 1   | 79 | 1.3   | 3.04  | 9.9  | 158 | WICKSTROM DAIRIES, LP               | CA   |
| 1,224 JER-Z-BOYZ MAXIMUM 28286           | 117647727       | 3K  |     | 28286 | 3   | 72  | 659   | 0.13  | 56  | 0.06  | 34   | 513  | 443  | 379  | 2.80 | 3.7  | -0.7 | 0   | 87 | 1.0   | 2.07  | 6.8  | 158 | JER-Z-BOYZ                          | CA   |
| 1,225 GR BW GANNON EVE U667              | 117218392       | 3K  |     | 731   | 1   | 69  | 1,288 | -0.04 | 50  | -0.06 | 33   | 341  | 357  | 375  | 2.92 | 2.1  | 0.3  | 1   | 86 | 1.1   | 4.16  | 6.0  | 158 | BRENTWOOD FARMS                     | CA   |
| 1,226 GR K&K GARDEN 2897                 | 067202897       | 3K  |     | 2897  | 3   | 72  | 1,009 | -0.06 | 36  | -0.02 | 33   | 446  | 425  | 407  | 2.86 | 4.7  | -0.1 | 2   | 80 | 1.2   | 2.86  | 6.0  | 158 | WAKKER DAIRY                        | WI   |
| 1,227 YOSEMITE MAGNUM NOAH N21304        | 840003004599091 | 8K  | F   | 21304 | 2   | 73  | 929   | 0.15  | 71  | 0.00  | 33   | 451  | 431  | 422  | 3.05 | 2.8  | 0.4  | 1   | 84 | 0.9   | 1.12  | 7.7  | 158 | YOSEMITE JERSEY DAIRY               | CA   |
| 1,228 PR RACHELLES RASMUS 8723           | 053378723       | 3K  |     | 8723  | 4   | 74  | 917   | -0.01 | 41  | 0.01  | 33   | 430  | 401  | 378  | 2.90 | 2.9  | 0.1  | 0   |    | 1.1   | 2.91  | 7.9  | 158 | DELTA VIEW FARMS                    | CA   |
| 1,229 LF RENEGADE JEAN                   | 067184602       | 8K  | F   | 4602  | 0   | 62  | 880   | 0.10  | 59  | 0.01  | 33   | 467  | 438  | 420  | 3.01 | 4.1  | -0.3 | 0   | 82 | 1.5   | 2.54  | 4.5  | 158 | CHITTENDEN MELANIE L & FISH LOUIS W | NY   |
| 1,230 HEARTLAND MILITIA TYLER            | 067191689       | 3K  |     | 64    | 2   | 71  | 595   | 0.08  | 41  | 0.06  | 33   | 461  | 397  | 348  | 3.01 | 3.3  | 0.9  | 2   | 90 | 1.3   | 2.75  | 6.5  | 158 | VANDERHORST, KATRINA                | TX   |
| 1,231 GRAMMER LEGAL FLY                  | 067353164       | 3K  |     | 3164  | 1   | 69  | 1,082 | -0.13 | 25  | -0.03 | 32   | 410  | 406  | 406  | 2.94 | 4.5  | 0.5  | 1   | 74 | 1.5   | 3.79  | 6.5  | 158 | GRAMMER JERSEY FARM LLC             | OH   |
| 1,232 ORTHRIDGE I LEGAL PAMPERED         | 117168503       | 3K  |     | 628   | 1   | 68  | 853   | 0.00  | 40  | 0.01  | 32   | 398  | 369  | 351  | 3.02 | 2.9  | 0.4  | 3   | 88 | 2.0   | 5.07  | 6.9  | 158 | ORTHRIDGE FARMS                     | WI   |
| 1,233 CLOVER PATCH IMPULS KITES          | 116200358       | 8K  | F   | 1424  | 4   | 71  | 676   | 0.14  | 55  | 0.03  | 32   | 455  | 410  | 379  | 3.06 | 3.5  | 0.4  | 2   | 90 | 1.2   | 3.18  | 5.3  | 158 | KOZAK, ALAN                         | OH   |
| 1,234 SUNSET CANYON VALENTINO DIXIE-ET   | 117335646       | 50K | C   | 1951  | 1   | 73  | 1,115 | -0.11 | 31  | -0.04 | 31   | 381  | 379  | 378  | 2.87 | 3.8  | -0.5 | 1   | 87 | 2.2   | 4.70  | 9.1  | 158 | SILVA, ERIC LEONARD                 | OR   |
| 1,235 CAL-MART LEGAL DORICE 5202         | 067245202       | 6K  | F   | 5202  | 1   | 69  | 582   | 0.14  | 54  | 0.05  | 31   | 486  | 424  | 371  | 2.88 | 3.1  | 0.5  | 0   | 80 | 1.4   | 3.52  | 6.9  | 158 | MARTIN DAIRY LLC                    | OR   |
| 1,236 DUTCH HOLLOW RENEGADE CHADEE-ET    | 067184439       | 3K  |     | 4439  | 1   | 69  | 826   | 0.07  | 50  | 0.00  | 30   | 464  | 433  | 408  | 2.90 | 3.9  | 0.8  | 1   | 82 | 1.4   | 2.14  | 6.6  | 158 | KELLER, KIP A                       | NY   |
| 1,237 GR CAL-MART ZUMA ZINA 5361         | 067185361       | 8K  | C   | 5361  | 1   | 68  | 320   | 0.22  | 54  | 0.11  | 30   | 524  | 431  | 350  | 2.87 | 3.4  | 0.1  | 0   | 77 | 1.0   | 2.57  | 6.2  | 158 | MARTIN DAIRY LLC                    | OR   |
| 1,238 WAUNAKEE IATOLA PEEP 2204          | 066007872       | 3K  |     | 2204  | 2   | 74  | 695   | 0.02  | 36  | 0.03  | 29   | 430  | 382  | 337  | 2.80 | 2.6  | -0.3 | 2   | 88 | 1.9   | 5.28  | 9.7  | 158 | LAUFENBERG, GERALD                  | WI   |
| 1,239 GR RFI 341 ACTION 784              | 116979948       | 3K  |     | 784   | 1   | 67  | 1,013 | -0.03 | 42  | -0.04 | 28   | 394  | 397  | 402  | 2.92 | 3.7  | 0.7  | 0   |    | 1.7   | 4.91  | 4.4  | 158 | ROWLEY, STEVE                       | MS   |
| 1,240 TOLLENAAR LIRSK 5199               | 064493121       | 3K  |     | 5199  | 1   | 64  | 293   | 0.28  | 66  | 0.10  | 28   | 600  | 514  | 440  | 2.91 | 5.2  | 1.1  | 2   | 76 | 0.0   | -0.41 | 3.5  | 158 | TOLLENAAR JERSEYS                   | CA   |
| 1,241 VALSIGNA SPARKY 17375              | 117553516       | 3K  |     | 17375 | 1   | 71  | 798   | 0.00  | 36  | -0.01 | 27   | 375  | 358  | 347  | 2.94 | 3.3  | -0.3 | 1   | 82 | 2.0   | 5.78  | 9.2  | 158 | WICKSTROM DAIRIES, LP               | CA   |
| 1,242 CAL-MART LYNDON TALIAH 3813        | 117428436       | 8K  | F   | 3813  | 1   | 70  | 705   | 0.11  | 54  | 0.01  | 27   | 462  | 434  | 414  | 2.96 | 3.2  | 0.4  | 1   | 81 | 1.3   | 3.98  | 5.7  | 158 | MARTIN DAIRY LLC                    | OR   |
| 1,243 NORSE STAR RENEGADE BRIELLE        | 067223209       | 3K  |     | 4333  | 1   | 70  | 448   | 0.18  | 54  | 0.07  | 27   | 511  | 445  | 387  | 2.87 | 3.7  | 0.3  | 1   | 85 | 1.8   | 3.56  | 7.1  | 158 | FREMSTAD, JORY                      | WI   |
| 1,244 NYMANS KARBALA 13393               | 116945381       | 3K  |     | 13393 | 2   | 73  | 963   | -0.04 | 35  | -0.05 | 26   | 409  | 407  | 403  | 2.79 | 4.0  | 0.0  | 3   | 88 | 1.2   | 4.77  | 8.2  | 158 | NYMAN BROS                          | CA   |
| 1,245 BW RENEGADE TRACIE W374            | 117594458       | 50K | F   | 1147  | 1   | 72  | 610   | 0.21  | 67  | 0.02  | 25   | 513  | 480  | 454  | 2.92 | 3.9  | 0.6  | 0   | 72 | 1.3   | 2.11  | 7.3  | 158 | BRENTWOOD FARMS                     | CA   |
| 1,246 HEARTLAND ZUMA DANA                | 067262477       | 8K  | F   | 2477  | 1   | 66  | 479   | 0.16  | 53  | 0.04  | 25   | 497  | 446  | 401  | 2.89 | 4.0  | 0.8  | 0   | 84 | 1.0   | 2.76  | 5.3  | 158 | HEARTLAND JERSEYS                   | KS   |
| 1,247 RFI 7 ACTION 745                   | 116978590       | 3K  |     | 745   | 1   | 70  | 454   | 0.11  | 41  | 0.03  | 23   | 459  | 419  | 388  | 2.97 | 4.5  | 0.4  | 0   |    | 2.0   | 5.37  | 9.6  | 158 | ROWLEY, STEVE                       | MS   |
| 1,248 GOLDUST KARBALA LANA-ET            | 067382039       | 8K  | C   | 2039  | 1   | 72  | 599   | 0.12  | 50  | -0.02 | 19   | 440  | 422  | 397  | 2.73 | 3.1  | 0.3  | 1   | 81 | 1.8   | 6.30  | 8.1  | 158 | DESERT PARK JERSEYS                 | OR   |
| 1,249 CAL-MART ZUMA BARRA 5154           | 067385154       | 6K  | F   | 5154  | 1   | 69  | 55    | 0.20  | 42  | 0.07  | 15   | 560  | 494  | 429  | 2.80 | 6.1  | 1.0  | 0   | 76 | 0.8   | 3.70  | 5.8  | 158 | MARTIN DAIRY LLC                    | OR   |
| 1,250 AHLEM BROTHERS TBONE 19242         | 840003005083935 | 3K  |     | 19242 | 3   | 74  | 1,466 | -0.03 | 62  | 0.01  | 54   | 278  | 242  | 229  | 3.18 | -1.2 | -1.1 | 2   | 84 | 1.5   | 1.99  | 10.3 | 157 | AHLEM BROTHERS                      | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      | Owner | ST   |     |                                |      |
|--|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|------|-----|--------------------------------|------|
|  |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                            | GJPI |
| 1.251 CINNAMON RIDGE WARRIOR STARDUST    | 117284708       | 8K  | F   | 847              | 1   | 69  | 1,669 | -0.15 | 47  | -0.05 | 49   | 373  | 376  | 392              | 3.05 | 2.6 | -0.2 | 0   | 75 | 0.4  | -0.69 | 5.9  | 157 | MAXWELL, KARA ALICE            | IA   |
| 1.252 HILMAR IMPULS 24661                | 067624661       | 3K  |     | 24661            | 3   | 72  | 1,384 | -0.04 | 58  | 0.00  | 49   | 443  | 407  | 386              | 3.01 | 2.0 | 0.5  | 2   | 78 | 0.3  | -2.39 | 6.4  | 157 | AHLEM, CHARLES                 | CA   |
| 1.253 YOSEMITE ARTIST FANCLUB F17455     | 067117455       | 3K  |     | 17455            | 5   | 74  | 1,414 | -0.04 | 57  | -0.02 | 47   | 417  | 392  | 380              | 2.99 | 2.1 | 0.2  | 2   | 85 | -0.1 | -1.45 | 6.4  | 157 | YOSEMITE JERSEY DAIRY          | CA   |
| 1.254 DUPAT VIRGIL 8737                  | 067148737       | 3K  |     | 8737             | 1   | 69  | 1,196 | 0.02  | 58  | 0.02  | 47   | 402  | 359  | 337              | 3.12 | 1.5 | -0.7 | 1   | 80 | 1.0  | 0.61  | 7.0  | 157 | WICKSTROM JERSEY FARMS INC     | CA   |
| 1.255 HEARTLAND IMPULS GATOR             | 067251948       | 3K  |     | 1948             | 2   | 71  | 939   | 0.12  | 66  | 0.07  | 47   | 410  | 337  | 289              | 3.14 | 1.1 | 0.1  | 2   | 78 | 0.6  | 0.12  | 6.5  | 157 | BOERDERIJ DE VELDHOEK LLC      | IA   |
| 1.256 CANTENDO HEADLINE MARYJANE         | 117221262       | 8K  | F   | 737              | 1   | 70  | 1,599 | -0.18 | 38  | -0.05 | 46   | 361  | 364  | 380              | 3.05 | 3.5 | -0.7 | 1   | 81 | 1.0  | 1.25  | 6.7  | 157 | NOYES THOMAS E & FAMILY        | OH   |
| 1.257 CAL-MART VIBRANT BLAYRE 3505       | 117194881       | 3K  |     | 3505             | 2   | 70  | 1,016 | -0.02 | 43  | 0.06  | 46   | 391  | 326  | 279              | 3.04 | 1.3 | 0.2  | 1   | 81 | 0.3  | 0.50  | 6.3  | 157 | MARTIN DAIRY LLC               | OR   |
| 1.258 GR AHLEM DALE PRINCESS 32330-ET    | 066621763       | 3K  |     | 32330            | 2   | 72  | 1,425 | -0.03 | 59  | -0.03 | 44   | 378  | 365  | 362              | 2.95 | 1.8 | -0.7 | 2   | 82 | 1.0  | 1.20  | 7.1  | 157 | AHLEM, WILLIAM JR              | CA   |
| 1.259 HEI BRI PARA KEET                  | 067049268       | 3K  |     | 268              | 3   | 73  | 894   | 0.02  | 46  | 0.06  | 44   | 393  | 320  | 266              | 3.01 | 1.4 | -0.9 | 1   | 92 | 1.0  | 2.38  | 7.8  | 157 | LANTZKY BRIAN & HEIDI & FAMILY | IA   |
| 1.260 SUN VALLEY TBONE JERSEYGIRL        | 117053780       | 6K  | F   | 2513             | 2   | 72  | 873   | 0.09  | 58  | 0.07  | 44   | 384  | 314  | 265              | 3.10 | 0.8 | -0.4 | 1   | 82 | 1.3  | 2.25  | 7.8  | 157 | SUN VALLEY FARM                | OR   |
| 1.261 PR FARIA BROTHERS APPRENTICE 55616 | 840003006060254 | 6K  | F   | 55616            | 2   | 68  | 1,422 | -0.04 | 58  | -0.04 | 42   | 338  | 335  | 341              | 2.98 | 0.3 | 0.1  | 0   |    | 1.0  | 1.78  | 4.2  | 157 | FARIA BROS DAIRIES             | TX   |
| 1.262 GR SHAN-MAR DALE PRESLEY           | 067100383       | 3K  |     | 9383             | 2   | 66  | 1,024 | 0.06  | 58  | 0.02  | 41   | 454  | 402  | 360              | 2.88 | 2.9 | -0.1 | 2   | 85 | 0.7  | 0.35  | 3.0  | 157 | GARDNER MARK & SHANNON         | PA   |
| 1.263 FARIA BROTHERS STONE 64791         | 840003006263242 | 6K  | F   | 64791            | 2   | 59  | 780   | 0.11  | 55  | 0.07  | 41   | 464  | 382  | 310              | 2.83 | 1.9 | -0.2 | 0   |    | 0.2  | 0.58  | 1.3  | 157 | FARIA DAIRY                    | AZ   |
| 1.264 GR WILSONVIEW GANNON MONICA-ET     | 116826268       | 3K  |     | 1590             | 2   | 69  | 1,670 | -0.14 | 50  | -0.11 | 40   | 331  | 369  | 412              | 3.02 | 2.7 | 0.6  | 2   | 82 | 0.8  | 1.06  | 4.3  | 157 | WILSONVIEW DAIRY               | OR   |
| 1.265 GR FARIA BROTHERS VALENTINO 93152  | 840003008537520 | 3K  |     | 71046            | 1   | 67  | 1,420 | -0.08 | 49  | -0.05 | 40   | 355  | 361  | 373              | 2.97 | 2.4 | -0.6 | 0   |    | 1.5  | 2.84  | 4.2  | 157 | FARIA BROS DAIRIES             | TX   |
| 1.266 CIRCLE S ABE KEY LARGO-P           | 116381046       | 8K  | F   | 1                | 2   | 73  | 1,410 | -0.07 | 52  | -0.06 | 40   | 438  | 436  | 435              | 2.83 | 3.7 | -0.8 | 2   | 84 | 0.0  | -0.67 | 7.6  | 157 | SORENSEN CHRIS & CHERYL        | WI   |
| 1.267 VALSIGNA SPARKY 17642              | 117613094       | 3K  |     | 17642            | 1   | 69  | 997   | 0.03  | 51  | 0.02  | 40   | 365  | 321  | 293              | 3.03 | 0.9 | -0.4 | 1   | 75 | 1.0  | 2.76  | 8.9  | 157 | WICKSTROM DAIRIES, LP          | CA   |
| 1.268 GR HILMAR BENEFACTOR 20747         | 067320747       | 3K  |     | 20747            | 3   | 73  | 1,237 | 0.00  | 58  | -0.03 | 39   | 382  | 366  | 357              | 2.92 | 2.1 | -0.9 | 2   | 88 | 1.4  | 3.03  | 6.6  | 157 | AHLEM, CHARLES                 | CA   |
| 1.269 CAL-MART SHAH PHOEBE 5003          | 067125003       | 3K  |     | 5003             | 1   | 68  | 1,025 | 0.06  | 58  | 0.02  | 39   | 445  | 403  | 372              | 2.94 | 2.3 | 0.2  | 1   | 84 | 1.0  | 0.94  | 6.0  | 157 | MARTIN DAIRY LLC               | OR   |
| 1.270 D&E VIBRANT LU 5328                | 067375328       | 6K  | C   | 5328             | 1   | 72  | 1,362 | -0.10 | 43  | -0.06 | 37   | 370  | 377  | 389              | 2.95 | 2.2 | -0.6 | 1   | 83 | 1.0  | 2.30  | 8.2  | 157 | AVILA RICHARD & JENNIFER M     | TX   |
| 1.271 PEARLMONT LEGAL ESSENCE            | 117351619       | 3K  |     | 377              | 1   | 64  | 1,505 | -0.17 | 36  | -0.10 | 36   | 282  | 314  | 350              | 3.00 | 2.5 | -0.4 | 1   | 90 | 2.0  | 6.47  | 4.6  | 157 | PEARL, MERWYN E                | VT   |
| 1.272 PR FARIA BROTHERS BLADE 69945      | 840003007172063 | 6K  | F   | 69945            | 1   | 69  | 1,062 | 0.07  | 62  | -0.01 | 36   | 468  | 444  | 426              | 2.90 | 3.4 | 0.3  | 1   | 83 | 0.7  | 0.11  | 5.9  | 157 | FARIA DAIRY                    | AZ   |
| 1.273 AHLEM LEGAL HAVS 35561             | 069042767       | 3K  |     | 35561            | 1   | 69  | 1,061 | -0.03 | 45  | -0.01 | 36   | 407  | 388  | 380              | 3.03 | 3.3 | 0.2  | 2   | 85 | 1.3  | 2.64  | 7.9  | 157 | AHLEM, WILLIAM JR              | CA   |
| 1.274 JER-Z-BOYZ MATINEE 31386           | 117497724       | 3K  |     | 31386            | 2   | 70  | 826   | 0.24  | 84  | 0.03  | 36   | 548  | 487  | 432              | 2.77 | 2.3 | 0.2  | 3   | 85 | 0.2  | -1.75 | 5.9  | 157 | JER-Z-BOYZ                     | CA   |
| 1.275 GR FARIA BROTHERS APPARTION 63301  | 840003005642398 | 6K  | F   | 63301            | 3   | 68  | 1,496 | -0.12 | 44  | -0.09 | 35   | 358  | 388  | 418              | 2.90 | 2.7 | 1.7  | 2   | 84 | 0.5  | 0.66  | 3.0  | 157 | FARIA DAIRY                    | AZ   |
| 1.276 VALSIGNA CARRIER 14499             | 116966760       | 3K  |     | 14499            | 2   | 72  | 1,282 | -0.14 | 33  | -0.06 | 35   | 377  | 389  | 408              | 3.02 | 4.2 | 0.4  | 2   | 82 | 1.0  | 2.10  | 8.1  | 157 | WICKSTROM DAIRIES, LP          | CA   |
| 1.277 AHLEM COUNTRY WYNOLA 17896         | 063434193       | 3K  |     | 17896            | 5   | 75  | 1,180 | -0.08 | 36  | -0.04 | 35   | 400  | 392  | 388              | 2.91 | 3.5 | 0.2  | 2   | 83 | 1.6  | 2.63  | 8.7  | 157 | AHLEM, WILLIAM JR              | CA   |
| 1.278 GR SHAN-MAR GANNON DESTINY         | 067100361       | 3K  |     | 361              | 2   | 71  | 1,499 | -0.19 | 31  | -0.09 | 34   | 307  | 345  | 385              | 2.98 | 3.7 | -0.5 | 2   | 86 | 1.4  | 5.10  | 5.8  | 157 | GARDNER MARK & SHANNON         | PA   |
| 1.279 GR FARIA BROTHERS PLUS 93414       | 840003008537782 | 6K  | F   | 93414            | 1   | 62  | 1,313 | -0.15 | 29  | -0.06 | 34   | 361  | 369  | 376              | 2.84 | 2.9 | 0.4  | 1   | 80 | 1.6  | 4.37  | 1.7  | 157 | FARIA BROS DAIRIES             | TX   |
| 1.280 GR WAUNAKEE DALE JOEY 2332-ET      | 066438858       | 50K | F   | 2332             | 2   | 76  | 1,293 | -0.20 | 22  | -0.06 | 34   | 409  | 419  | 430              | 2.90 | 5.0 | 1.0  | 2   | 85 | 0.8  | 1.85  | 6.7  | 157 | HEARTLAND JERSEYS              | KS   |
| 1.281 KEEWAYDIN IMPULS RUDY 378          | 116777519       | 3K  |     | 78               | 2   | 69  | 819   | 0.01  | 42  | 0.02  | 34   | 447  | 405  | 376              | 3.01 | 3.6 | 1.1  | 2   | 81 | 0.9  | 2.41  | 6.1  | 157 | KEEWAYDIN FARM                 | VT   |
| 1.282 MS JEVON 5499 F833                 | 116661357       | 8K  | F   | 6833             | 2   | 75  | 1,079 | -0.02 | 44  | -0.02 | 33   | 457  | 439  | 420              | 2.76 | 3.8 | 0.3  | 2   | 84 | 1.0  | 1.53  | 10.0 | 157 | MOUNTAIN SHADOW DAIRY          | AZ   |
| 1.283 PR FARIA BROTHERS MAXIMUM 17376    | 840003001575321 | 3K  |     | 17376            | 4   | 66  | 947   | 0.08  | 59  | -0.01 | 33   | 441  | 413  | 392              | 2.91 | 3.1 | -0.3 | 0   | 82 | 0.7  | 2.27  | 3.6  | 157 | FARIA DAIRY                    | AZ   |
| 1.284 DUPAT JACK 8782-ET                 | 067148782       | 3K  |     | 8782             | 0   | 63  | 803   | 0.05  | 47  | 0.03  | 33   | 491  | 450  | 417              | 2.94 | 4.1 | 1.4  | 0   | 76 | 0.8  | -0.16 | 6.6  | 157 | WICKSTROM JERSEY FARMS INC     | CA   |
| 1.285 CLOVER PATCH NATHAN DUSK           | 115126703       | 3K  |     | 1102             | 5   | 74  | 766   | 0.08  | 49  | 0.03  | 33   | 417  | 372  | 340              | 3.00 | 3.0 | -0.1 | 3   | 86 | 1.4  | 4.14  | 7.6  | 157 | KOZAK ALAN & KOVALAN KELLE A   | OH   |
| 1.286 VALSIGNA TBONE 13406               | 116757449       | 3K  |     | 13406            | 3   | 71  | 472   | 0.22  | 62  | 0.09  | 33   | 496  | 414  | 348              | 2.98 | 3.0 | 0.0  | 2   | 81 | 1.4  | 1.97  | 7.3  | 157 | WICKSTROM DAIRIES, LP          | CA   |
| 1.287 VALSIGNA KILOWATT 17384            | 117610653       | 3K  |     | 17384            | 0   | 64  | 197   | 0.25  | 56  | 0.14  | 33   | 525  | 409  | 311              | 2.92 | 3.0 | 0.6  | 1   | 81 | 0.4  | 1.96  | 7.3  | 157 | WICKSTROM DAIRIES, LP          | CA   |
| 1.288 NORSE STAR IATOLA BECKA-ET         | 116988494       | 3K  |     | 3475             | 3   | 74  | 626   | 0.07  | 42  | 0.05  | 32   | 434  | 372  | 320              | 2.89 | 2.2 | -0.9 | 2   | 88 | 1.9  | 5.08  | 9.4  | 157 | FREMSTAD, JORY                 | WI   |
| 1.289 JER-Z-BOYZ MAXIMUM 24412           | 117497386       | 3K  |     | 24412            | 4   | 71  | 509   | 0.29  | 77  | 0.07  | 32   | 518  | 443  | 379              | 2.89 | 2.8 | 0.0  | 0   | 81 | 0.7  | 1.22  | 5.3  | 157 | JER-Z-BOYZ                     | CA   |
| 1.290 FOREST GLEN LOUIES HARMONICA       | 067323815       | 3K  |     | 3815             | 1   | 70  | 1,366 | -0.13 | 36  | -0.09 | 31   | 392  | 419  | 443              | 2.85 | 4.3 | 0.2  | 1   | 78 | 1.0  | 2.88  | 8.0  | 157 | FOREST GLEN JERSEYS            | OR   |
| 1.291 FOREST GLEN ALEXANDERS BABY        | 067282858       | 3K  |     | 2858             | 2   | 70  | 986   | 0.05  | 54  | -0.02 | 31   | 505  | 490  | 479              | 2.87 | 5.1 | 0.3  | 1   | 84 | 0.5  | 0.13  | 5.7  | 157 | BANSEN STANLEY K & DORA H      | OR   |
| 1.292 HILMAR IMPULS 29043                | 067329043       | 3K  |     | 29043            | 1   | 65  | 303   | 0.25  | 60  | 0.11  | 31   | 541  | 450  | 374              | 2.96 | 4.0 | 0.2  | 1   | 79 | 1.2  | 2.04  | 4.7  | 157 | AHLEM, CHARLES                 | CA   |
| 1.293 DUPAT HEADLINE 8861                | 067148861       | 3K  |     | 8861             | 1   | 68  | 1,136 | -0.13 | 27  | -0.07 | 29   | 400  | 422  | 452              | 3.10 | 5.5 | 1.0  | 0   | 77 | 1.4  | 3.29  | 6.4  | 157 | WICKSTROM JERSEY FARMS INC     | CA   |
| 1.294 SUNWEST KARBALA MAX M26849         | 840003006187779 | 3K  |     | 26849            | 2   | 72  | 1,037 | -0.04 | 42  | -0.05 | 28   | 376  | 380  | 384              | 2.87 | 3.0 | 0.2  | 2   | 90 | 1.6  | 4.64  | 8.5  | 157 | SUNWEST JERSEY DAIRY           | CA   |
| 1.295 GR FARIA BROTHERS APPARTION 60847  | 840003004414854 | 3K  |     | 60847            | 3   | 65  | 391   | 0.18  | 52  | 0.08  | 28   | 531  | 455  | 388              | 2.87 | 4.7 | 0.0  | 0   | 82 | 1.0  | 2.77  | 2.3  | 157 | FARIA DAIRY                    | AZ   |
| 1.296 VICS TUESDAY SHELBA 4979           | 115594283       | 80K | F   | 4979             | 5   | 78  | 1,038 | -0.11 | 26  | -0.06 | 27   | 423  | 436  | 451              | 2.98 | 4.8 | 1.9  | 2   | 91 | 0.7  | 1.90  | 8.3  | 157 | FANELLI, VICTOR                | CA   |
| 1.297 MULTI-ROSE RENEGADE 3908           | 840003004599336 | 8K  | C   | 3908             | 0   | 67  | 515   | 0.16  | 53  | 0.04  | 27   | 451  | 400  | 358              | 2.95 | 3.8 | 0.1  | 1   | 81 | 1.8  | 4.15  | 9.2  | 157 | MULTI ROSE JERSEYS INC         | IA   |
| 1.298 JVB RED HOT RESTORE LINDA-ET       | 840003007066011 | 3K  |     | 116              | 1   | 71  | 890   | -0.12 | 18  | -0.03 | 26   | 433  | 418  | 397              | 2.71 | 4.9 | 0.3  | 1   | 82 | 1.4  | 3.97  | 9.0  | 157 | VANBUSKIRK JIM & JANET         | MI   |
| 1.299 AHLEM REGION TIFFANY 35046         | 069042252       | 3K  |     | 35046            | 2   | 72  | 364   | 0.21  | 55  | 0.08  | 26   | 468  | 404  | 351              | 2.96 | 3.5 | 0.5  | 1   | 84 | 1.9  | 5.08  | 9.6  | 157 | AHLEM, WILLIAM JR              | CA   |
| 1.300 D&E CELEBRITY CHARM 22085          | 067422085       | 3K  |     | 22085            | 1   | 70  | 484   | 0.15  | 51  | 0.03  | 25   | 473  | 424  | 383              | 2.91 | 4.2 | 1.0  | 1   | 75 | 1.0  | 2.49  | 7.6  | 157 | D & E JERSEYS                  | TX   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      | Owner | ST   |     |                            |      |
|--|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|------|-----|----------------------------|------|
|  |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                        | GJPI |
| 1.301 BW RENEGADE RENEE ET755-ET         | 117215036       | 3K  |     | 212              | 2   | 70  | 490   | 0.11  | 42  | 0.03  | 24   | 476  | 431  | 391              | 2.87 | 4.1 | 1.3  | 0   | 85 | 1.8  | 3.39  | 6.9  | 157 | RIVER VALLEY FARM          | IL   |
| 1.302 VALSIGNA SPARKY 18398              | 117776650       | 6K  | C   | 18398            | 0   | 66  | 229   | 0.23  | 53  | 0.08  | 23   | 464  | 398  | 344              | 2.99 | 2.9 | 0.8  | 0   | 81 | 1.4  | 4.70  | 7.9  | 157 | WICKSTROM DAIRIES, LP      | CA   |
| 1.303 GOLDUST ACTION LAUREN              | 067161280       | 3K  |     | 1280             | 4   | 75  | 91    | 0.16  | 34  | 0.05  | 12   | 568  | 517  | 462              | 2.75 | 6.6 | 1.6  | 0   | 93 | 1.5  | 4.97  | 9.5  | 157 | LOURENZO, KEVIN B          | ID   |
| 1.304 FARIA BROTHERS TBONE EMILY         | 840003009425182 | 6K  | F   | 103471           | 0   | 63  | 1,139 | 0.08  | 69  | 0.03  | 47   | 386  | 329  | 289              | 2.99 | 0.2 | -1.1 | 0   |    | 1.4  | 0.88  | 7.0  | 156 | FARIA DAIRY                | AZ   |
| 1.305 GR FARIA BROTHERS IMPULS 102420    | 840003008535788 | 6K  | F   | 102420           | 0   | 56  | 1,076 | 0.16  | 79  | 0.04  | 46   | 451  | 392  | 353              | 3.05 | 1.1 | -0.2 | 0   |    | 0.3  | -1.05 | 3.0  | 156 | FARIA DAIRY                | AZ   |
| 1.306 PR FARIA BROTHERS SHAWNEE 65106    | 840003006263557 | 6K  | F   | 65106            | 2   | 56  | 2,053 | -0.15 | 63  | -0.15 | 45   | 324  | 379  | 432              | 2.88 | 0.9 | 0.0  | 0   |    | 0.1  | -1.39 | 0.6  | 156 | FARIA DAIRY                | AZ   |
| 1.307 DEN-KEL CHAMP JIJI-ET              | 067100735       | 3K  |     | 735              | 1   | 71  | 1,331 | -0.07 | 49  | -0.01 | 44   | 392  | 362  | 339              | 2.86 | 1.5 | -0.5 | 1   | 85 | 0.6  | 0.23  | 8.6  | 156 | KELLER, KIP A              | NY   |
| 1.308 GR OOMSDALE CASEY LEGAL GHADA-ET   | 067138583       | 3K  |     | 583              | 1   | 65  | 1,278 | -0.08 | 41  | -0.01 | 44   | 327  | 303  | 293              | 3.05 | 1.5 | -0.3 | 0   | 80 | 1.6  | 3.67  | 3.3  | 156 | OOMS, MICHAEL AREND        | NY   |
| 1.309 YOSEMITE MOHAWK FOREST N20397      | 840003007349402 | 3K  |     | 20397            | 2   | 72  | 1,546 | -0.15 | 43  | -0.07 | 43   | 357  | 358  | 363              | 2.86 | 2.1 | -0.6 | 2   | 79 | 0.5  | 0.70  | 8.1  | 156 | YOSEMITE JERSEY DAIRY      | CA   |
| 1.310 CLARESHOE ABE ROSETTE              | 067032906       | 3K  |     | 906              | 4   | 72  | 1,333 | -0.03 | 55  | -0.03 | 43   | 339  | 322  | 313              | 2.95 | 0.8 | -0.6 | 2   | 88 | 1.3  | 1.74  | 5.8  | 156 | SHOEMAKER, STEVEN R        | OH   |
| 1.311 FOREST GLEN LOUIES NICKEL          | 067323624       | 3K  |     | 3624             | 2   | 71  | 1,360 | -0.05 | 53  | -0.03 | 42   | 330  | 328  | 341              | 3.12 | 2.0 | -0.4 | 1   | 81 | 1.4  | 2.73  | 7.4  | 156 | FOREST GLEN JERSEYS        | OR   |
| 1.312 HILMAR LEGAL 33282                 | 067433282       | 6K  | C   | 33282            | 1   | 68  | 1,315 | -0.11 | 39  | -0.02 | 42   | 375  | 358  | 350              | 2.95 | 2.5 | -0.1 | 1   | 81 | 1.2  | 1.94  | 5.6  | 156 | AHLEM, CHARLES             | CA   |
| 1.313 GR FARIA BROTHERS VALENTINO 101914 | 840003008535282 | 6K  | C   | 101914           | 0   | 66  | 1,451 | -0.14 | 40  | -0.05 | 41   | 362  | 365  | 375              | 2.98 | 2.9 | -1.2 | 0   |    | 1.6  | 2.67  | 7.0  | 156 | FARIA BROS DAIRIES         | TX   |
| 1.314 WILL DO REBEL WARM                 | 115837375       | 3K  |     | 177              | 4   | 75  | 1,356 | -0.08 | 47  | -0.04 | 41   | 361  | 352  | 348              | 2.90 | 1.9 | -0.2 | 3   | 91 | 1.0  | 2.32  | 8.9  | 156 | ETTINGER ERICA & AMBER     | SC   |
| 1.315 DP VALINTINO SYLVIA 915            | 067106915       | 3K  |     | 915              | 1   | 70  | 1,187 | 0.00  | 53  | 0.00  | 41   | 388  | 359  | 337              | 2.91 | 1.7 | -0.9 | 1   | 76 | 1.0  | 1.83  | 7.9  | 156 | DESERT PARK JERSEYS        | OR   |
| 1.316 MS GATSBY 4008 G608                | 117324714       | 8K  | F   | 7608             | 1   | 68  | 1,064 | 0.06  | 62  | 0.01  | 41   | 393  | 354  | 330              | 3.04 | 1.9 | -0.2 | 1   | 83 | 0.7  | 1.14  | 4.5  | 156 | MOUNTAIN SHADOW DAIRY      | AZ   |
| 1.317 PR FARIA BROTHERS JEVON 57898      | 840003006316448 | 6K  | F   | 57898            | 2   | 56  | 1,484 | -0.01 | 64  | -0.07 | 40   | 420  | 416  | 406              | 2.68 | 1.7 | -0.1 | 2   | 84 | 0.0  | 0.03  | 0.0  | 156 | FARIA BROS DAIRIES         | TX   |
| 1.318 GR OOMSDALE GRETECH VIRBIRT GHEA   | 067138584       | 3K  |     | 584              | 1   | 68  | 1,355 | -0.10 | 44  | -0.04 | 40   | 395  | 379  | 362              | 2.76 | 3.0 | -0.5 | 0   | 68 | 0.3  | 0.91  | 6.4  | 156 | TATE, WILL                 | CA   |
| 1.319 SUNWEST TBONE REBEL N29866         | 840003007461658 | 3K  |     | 29866            | 2   | 72  | 653   | 0.17  | 62  | 0.09  | 40   | 458  | 369  | 296              | 2.91 | 1.0 | -0.2 | 2   | 78 | 1.0  | 0.81  | 8.4  | 156 | SUNWEST JERSEY DAIRY       | CA   |
| 1.320 PR VALSIGNA VIBRANT 17807          | 117724868       | 3K  |     | 17807            | 1   | 67  | 1,799 | -0.20 | 45  | -0.13 | 39   | 321  | 374  | 427              | 2.97 | 2.7 | -1.6 | 0   | 66 | 0.7  | 2.36  | 7.8  | 156 | WICKSTROM DAIRIES, LP      | CA   |
| 1.321 AVI-LANCHE VIRGIL BOXER 4841       | 840003008324292 | 3K  |     | 4841             | 1   | 69  | 1,289 | -0.05 | 49  | -0.04 | 39   | 360  | 368  | 394              | 3.24 | 2.3 | 0.7  | 1   | 81 | 0.9  | 1.32  | 6.1  | 156 | AVILA RICHARD & JENNIFER M | TX   |
| 1.322 VALSIGNA SPARKY 18306              | 117729256       | 6K  | F   | 18306            | 0   | 66  | 1,218 | -0.05 | 46  | -0.02 | 39   | 375  | 356  | 344              | 2.92 | 1.6 | 0.1  | 0   |    | 0.7  | 1.10  | 7.8  | 156 | WICKSTROM DAIRIES, LP      | CA   |
| 1.323 GR HILMAR KIRK 32677               | 067432677       | 6K  | C   | 32677            | 1   | 69  | 1,104 | 0.01  | 52  | 0.00  | 39   | 341  | 316  | 304              | 3.03 | 1.3 | -0.2 | 1   | 83 | 1.6  | 3.56  | 5.4  | 156 | AHLEM, CHARLES             | CA   |
| 1.324 SUNSET CANYON REN DAHLIA 938-ET    | 117270257       | 50K | F   | 1938             | 2   | 72  | 896   | 0.08  | 56  | 0.04  | 39   | 463  | 406  | 360              | 2.90 | 2.7 | 0.3  | 1   | 90 | 0.8  | -0.26 | 6.5  | 156 | SILVA, ERIC LEONARD        | OR   |
| 1.325 SEVEN C IMPULS LEXUS               | 117118692       | 3K  |     | 802              | 1   | 64  | 964   | 0.05  | 53  | 0.01  | 37   | 389  | 355  | 336              | 3.05 | 1.6 | 0.2  | 1   | 84 | 1.2  | 3.07  | 4.9  | 156 | VINKEMEIER SEVEN C DAIRY   | MN   |
| 1.326 CDF TBONE AJ M25607                | 840003005081172 | 3K  |     | 25607            | 3   | 74  | 655   | 0.13  | 54  | 0.07  | 37   | 444  | 369  | 309              | 2.95 | 2.2 | -0.6 | 2   | 83 | 1.2  | 2.46  | 9.3  | 156 | C & S LIVESTOCK            | CA   |
| 1.327 CAL-MART ROY GAIL 5337             | 067185337       | 6K  | C   | 5337             | 0   | 55  | 653   | 0.18  | 64  | 0.07  | 37   | 481  | 406  | 345              | 2.95 | 2.3 | -0.2 | 0   | 81 | 0.5  | 0.84  | 6.5  | 156 | MARTIN DAIRY LLC           | OR   |
| 1.328 VALSIGNA SPARKY 17908              | 117725832       | 3K  |     | 17908            | 1   | 68  | 1,265 | -0.07 | 44  | -0.05 | 36   | 360  | 362  | 369              | 2.95 | 2.5 | -0.7 | 0   | 79 | 1.1  | 2.62  | 8.8  | 156 | WICKSTROM DAIRIES, LP      | CA   |
| 1.329 D&E HUGO FAWN 4483                 | 067334483       | 3K  |     | 4483             | 1   | 70  | 1,160 | 0.04  | 59  | -0.02 | 36   | 431  | 419  | 413              | 2.94 | 3.7 | -1.1 | 1   | 79 | 1.3  | 2.18  | 7.4  | 156 | D & E JERSEYS              | TX   |
| 1.330 JARS OF CLAY PLUS 37436            | 070142179       | 8K  | F   | 37436            | 1   | 68  | 1,149 | 0.10  | 72  | -0.03 | 35   | 401  | 393  | 394              | 2.98 | 1.8 | -1.1 | 0   | 80 | 1.2  | 2.78  | 5.9  | 156 | RANCHO TERESITA DAIRY      | CA   |
| 1.331 WILSONVIEW JEVON BRANDY            | 116780014       | 3K  |     | 1534             | 3   | 73  | 1,053 | 0.13  | 71  | -0.02 | 35   | 472  | 448  | 428              | 2.86 | 2.8 | 0.5  | 2   | 86 | 1.4  | 0.34  | 7.7  | 156 | WILSONVIEW DAIRY           | OR   |
| 1.332 JEVON I LOU                        | 116404239       | 3K  |     | 570              | 3   | 73  | 914   | 0.10  | 61  | 0.01  | 35   | 443  | 407  | 380              | 2.94 | 2.8 | -0.1 | 2   | 90 | 1.2  | 2.05  | 7.8  | 156 | AVILA RICHARD & JENNIFER M | TX   |
| 1.333 GR FARIA BROTHERS PLUS 102101      | 840003008535469 | 6K  | F   | 102101           | 0   | 54  | 912   | 0.08  | 58  | 0.00  | 34   | 392  | 362  | 342              | 2.98 | 1.8 | 0.4  | 1   | 79 | 0.6  | 3.10  | 2.3  | 156 | FARIA DAIRY                | AZ   |
| 1.334 DUPAT TBONE 4926                   | 067084926       | 3K  |     | 4926             | 4   | 76  | 803   | 0.10  | 56  | 0.03  | 34   | 437  | 387  | 346              | 2.89 | 2.2 | -0.8 | 2   | 90 | 1.6  | 3.12  | 9.0  | 156 | WICKSTROM JERSEY FARMS INC | CA   |
| 1.335 AHLEM IATOLA ALLURE 18759          | 063730168       | 8K  | F   | 18759            | 4   | 75  | 734   | 0.16  | 64  | 0.03  | 34   | 423  | 378  | 350              | 3.10 | 1.5 | -0.2 | 3   | 83 | 1.5  | 3.48  | 8.8  | 156 | AHLEM, WILLIAM JR          | CA   |
| 1.336 WAUNAKEE LEGAL PAOLI 2777          | 069781435       | 3K  |     | 2777             | 1   | 69  | 550   | 0.17  | 56  | 0.08  | 34   | 497  | 420  | 356              | 2.93 | 3.0 | 0.2  | 1   | 80 | 1.0  | 1.94  | 7.8  | 156 | LAUFENBERG, GERALD         | WI   |
| 1.337 AHLEM LEGAL WINOLA 35826           | 069043032       | 3K  |     | 35826            | 1   | 68  | 1,329 | -0.22 | 18  | -0.07 | 32   | 340  | 362  | 384              | 2.90 | 3.9 | 0.6  | 1   | 85 | 1.3  | 4.87  | 7.1  | 156 | AHLEM, WILLIAM JR          | CA   |
| 1.338 NJF MATINEE                        | 115706187       | 3K  |     | 97               | 3   | 70  | 1,069 | 0.10  | 70  | -0.04 | 32   | 498  | 489  | 483              | 2.89 | 3.7 | 0.9  | 0   | 82 | 0.7  | -0.48 | 5.0  | 156 | STRICKLAND, TONY           | GA   |
| 1.339 VALSIGNA KARBALA 17040             | 117490062       | 3K  |     | 17040            | 1   | 69  | 1,011 | -0.01 | 46  | -0.03 | 32   | 424  | 413  | 409              | 2.97 | 4.2 | 0.9  | 1   | 70 | 0.6  | 1.84  | 6.3  | 156 | WICKSTROM DAIRIES, LP      | CA   |
| 1.340 SUN VALLEY IMPULS HOLLY-ET         | 114592073       | 50K | F   | 1511             | 4   | 79  | 767   | 0.03  | 41  | 0.02  | 32   | 440  | 402  | 375              | 3.02 | 3.3 | 0.9  | 2   | 92 | 0.9  | 2.79  | 5.3  | 156 | SEALS THOMAS L & JENNIE L  | OR   |
| 1.341 HAWARDEN PREMIER PIXY              | 067125620       | 6K  | C   | 620              | 0   | 62  | 653   | 0.13  | 55  | 0.05  | 32   | 446  | 393  | 354              | 3.02 | 2.6 | 0.1  | 0   | 85 | 1.5  | 3.52  | 7.5  | 156 | HAWARDEN JERSEYS INC       | ID   |
| 1.342 FOREST GLEN IMPULS MARYLOU         | 067354669       | 3K  |     | 4669             | 1   | 66  | 552   | 0.11  | 46  | 0.07  | 32   | 489  | 427  | 380              | 3.04 | 3.9 | 0.9  | 0   | 75 | 0.5  | 2.18  | 5.7  | 156 | FOREST GLEN JERSEYS        | OR   |
| 1.343 VALSIGNA ARON 17472                | 117611467       | 3K  |     | 17472            | 1   | 70  | 1,060 | -0.04 | 42  | -0.04 | 31   | 370  | 367  | 368              | 2.93 | 2.8 | 0.6  | 1   | 78 | 1.2  | 3.47  | 8.6  | 156 | WICKSTROM DAIRIES, LP      | CA   |
| 1.344 BW LEGION CAYLIE ET702-ET          | 116839437       | 3K  |     | 1838             | 2   | 74  | 823   | 0.00  | 37  | 0.01  | 31   | 400  | 370  | 348              | 2.95 | 3.6 | 1.1  | 3   | 84 | 1.6  | 3.73  | 7.9  | 156 | BRENTWOOD FARMS            | CA   |
| 1.345 HEINZ VIBRANT MAID 7373            | 069402085       | 3K  |     | 7373             | 1   | 69  | 801   | 0.00  | 35  | 0.01  | 31   | 494  | 455  | 423              | 2.89 | 5.3 | 0.6  | 1   | 81 | 0.2  | 0.91  | 6.7  | 156 | HEINZ, LLOYD               | WI   |
| 1.346 BARLASS J MARSHALL ASHLYN          | 116970873       | 3K  |     | 2081             | 2   | 73  | 799   | 0.01  | 39  | 0.01  | 31   | 418  | 392  | 380              | 3.08 | 3.7 | 0.8  | 2   | 86 | 2.0  | 3.89  | 10.1 | 156 | BARLASS JERSEYS LLC        | WI   |
| 1.347 AHLEM LEGAL ARENA 37544            | 070049018       | 8K  | F   | 37544            | 1   | 69  | 761   | 0.05  | 44  | 0.02  | 31   | 428  | 388  | 356              | 2.91 | 2.7 | 1.1  | 0   | 84 | 1.4  | 3.51  | 7.2  | 156 | AHLEM, WILLIAM JR          | CA   |
| 1.348 AHLEM IATOLA PRINCESS 19055        | 063730464       | 3K  |     | 19055            | 4   | 76  | 448   | 0.15  | 48  | 0.08  | 31   | 468  | 393  | 334              | 3.00 | 2.5 | 0.2  | 3   | 86 | 1.6  | 3.97  | 10.0 | 156 | AHLEM, WILLIAM JR          | CA   |
| 1.349 GR HILMAR KILOWATT 30077           | 067330077       | 3K  |     | 30077            | 1   | 68  | 390   | 0.19  | 53  | 0.10  | 31   | 530  | 443  | 370              | 2.92 | 3.3 | 1.4  | 1   | 75 | -0.2 | 0.48  | 6.4  | 156 | AHLEM, CHARLES             | CA   |
| 1.350 TOLLENAAR BLAISE 6362              | 840003007398440 | 3K  |     | 6362             | 1   | 70  | 829   | -0.04 | 32  | 0.00  | 30   | 460  | 429  | 403              | 2.89 | 4.4 | 1.2  | 2   | 80 | 0.7  | 1.60  | 8.0  | 156 | TOLLENAAR JERSEYS          | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      |       | Owner | ST  |                            |      |
|--|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|-------|-----|----------------------------|------|
|  |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                        | GJPI |
| 1,351 WILSONVIEW MCKENZIE-ET             | 116897969       | 50K | F   | 1615  | 2   | 73  | 607   | 0.10  | 47  | 0.05  | 30   | 409  | 360  | 325  | 3.03 | 2.3 | 0.9  | 1   | 90 | 1.6  | 4.08  | 5.5   | 156 | WILSONVIEW DAIRY           | OR   |
| 1,352 TOLLENAAR MILITIA 4683             | 062953597       | 3K  |     | 4683  | 2   | 70  | 779   | 0.10  | 55  | 0.00  | 29   | 449  | 428  | 420  | 3.09 | 3.6 | 2.2  | 2   | 85 | 0.8  | 2.22  | 5.2   | 156 | TOLLENAAR JERSEYS          | CA   |
| 1,353 D&E CACTUS HOLLY 22246             | 067422246       | 3K  |     | 22246 | 1   | 68  | 778   | 0.09  | 52  | 0.01  | 29   | 477  | 441  | 407  | 2.82 | 3.0 | 0.8  | 1   | 80 | 0.9  | 1.73  | 6.9   | 156 | D & E JERSEYS              | TX   |
| 1,354 FOREST GLEN IMPULS LORETTA         | 067323870       | 3K  |     | 3870  | 1   | 64  | 391   | 0.20  | 57  | 0.08  | 29   | 508  | 436  | 380  | 3.02 | 3.7 | 0.9  | 0   |    | 1.2  | 2.70  | 4.5   | 156 | FOREST GLEN JERSEYS        | OR   |
| 1,355 FOREST GLEN ACTIONS BET            | 067129080       | 3K  |     | 9080  | 5   | 75  | 1,035 | -0.07 | 35  | -0.05 | 28   | 358  | 365  | 376  | 2.94 | 3.7 | 0.2  | 2   | 90 | 1.9  | 5.63  | 9.0   | 156 | BANSEN STANLEY K & DORA H  | OR   |
| 1,356 ORTHRIDGE I LEGAL DIOSMA-ET        | 067116745       | 3K  |     | 745   | 1   | 67  | 609   | 0.10  | 47  | 0.04  | 28   | 510  | 462  | 422  | 2.91 | 4.3 | 1.0  | 1   | 81 | 1.4  | 2.37  | 6.8   | 156 | ORTHRIDGE FARMS            | WI   |
| 1,357 AHLEM LEGAL VANITY 37058           | 070048532       | 8K  | C   | 37058 | 1   | 71  | 683   | -0.07 | 19  | 0.01  | 27   | 389  | 359  | 337  | 2.96 | 3.7 | -0.1 | 1   | 86 | 2.6  | 7.46  | 8.5   | 156 | AHLEM, WILLIAM JR          | CA   |
| 1,358 RIVER VALLEY LEGAL BEGONIA-ET      | 117653560       | 50K | F   | 156   | 1   | 71  | 662   | 0.08  | 46  | 0.01  | 27   | 455  | 417  | 384  | 2.87 | 3.6 | 0.1  | 1   | 85 | 1.2  | 4.57  | 7.6   | 156 | RIVER VALLEY FARM          | IL   |
| 1,359 VALSIGNA SPARKY 17507              | 117611805       | 3K  |     | 17507 | 1   | 70  | 966   | -0.06 | 33  | -0.04 | 26   | 361  | 367  | 377  | 2.95 | 3.6 | 0.2  | 0   |    | 1.4  | 5.51  | 8.8   | 156 | WICKSTROM DAIRIES, LP      | CA   |
| 1,360 AHLEM LEGAL ROSANNA 35699          | 069042905       | 8K  | C   | 35699 | 1   | 70  | 541   | 0.07  | 36  | 0.03  | 26   | 418  | 367  | 321  | 2.85 | 2.6 | 0.5  | 2   | 90 | 2.2  | 6.92  | 8.0   | 156 | AHLEM, WILLIAM JR          | CA   |
| 1,361 SUNSET CANYON VALENTINOS L MAID-ET | 117501313       | 3K  |     | 147   | 1   | 70  | 516   | 0.16  | 53  | 0.04  | 26   | 459  | 411  | 369  | 2.90 | 3.5 | -0.5 | 1   | 81 | 1.9  | 5.57  | 7.2   | 156 | RIVER VALLEY FARM          | IL   |
| 1,362 SUN VALLEY ZIK SUGAR               | 116253806       | 8K  | F   | 2196  | 3   | 66  | 220   | 0.26  | 58  | 0.10  | 26   | 533  | 443  | 363  | 2.85 | 4.1 | 0.1  | 2   | 84 | 1.3  | 3.45  | 2.4   | 156 | SUN VALLEY FARM            | OR   |
| 1,363 FOREST GLEN IMPULS ILSA            | 067282158       | 3K  |     | 2158  | 3   | 70  | 571   | 0.03  | 32  | 0.02  | 25   | 446  | 410  | 384  | 3.00 | 4.6 | 2.0  | 2   | 80 | 0.9  | 3.81  | 5.3   | 156 | BANSEN STANLEY K & DORA H  | OR   |
| 1,364 YOSEMITE HEADLINE ARTIST N23082    | 840003008203131 | 3K  |     | 23082 | 1   | 68  | 1,140 | -0.06 | 41  | -0.09 | 24   | 403  | 434  | 460  | 2.84 | 4.3 | 0.6  | 1   | 83 | 1.3  | 4.01  | 5.7   | 156 | YOSEMITE JERSEY DAIRY      | CA   |
| 1,365 AHLEM HEADLINE DREAM 36450         | 070047924       | 8K  | C   | 36450 | 1   | 73  | 1,005 | -0.09 | 29  | -0.07 | 22   | 413  | 440  | 467  | 2.96 | 5.2 | 2.4  | 1   | 83 | 1.4  | 3.21  | 8.7   | 156 | AHLEM, WILLIAM JR          | CA   |
| 1,366 GOLDUST RENEGADE LAKISHA-ET        | 067382018       | 8K  | F   | 2018  | 1   | 72  | 76    | 0.31  | 62  | 0.11  | 22   | 527  | 437  | 355  | 2.84 | 2.9 | 1.1  | 0   | 82 | 1.4  | 3.57  | 7.0   | 156 | LOURENZO, KEVIN B          | ID   |
| 1,367 AHLEM CELEBRITY CAPRICE 34473      | 069041679       | 8K  | C   | 34473 | 2   | 75  | 442   | 0.09  | 37  | 0.02  | 19   | 395  | 371  | 353  | 2.99 | 3.7 | 0.1  | 2   | 90 | 2.3  | 8.13  | 10.1  | 156 | AHLEM, WILLIAM JR          | CA   |
| 1,368 JER-Z-BOYZ MAGNIFICENT 28498       | 117496769       | 3K  |     | 28498 | 3   | 73  | 1,394 | -0.14 | 37  | 0.01  | 51   | 322  | 271  | 232  | 2.87 | 0.2 | -1.8 | 2   | 86 | 1.3  | 2.41  | 7.8   | 155 | JER-Z-BOYZ                 | CA   |
| 1,369 SMJ VALENTINO GITTY                | 067361337       | 8K  | F   | 1337  | 1   | 70  | 1,597 | -0.12 | 50  | -0.04 | 48   | 341  | 326  | 316  | 2.83 | 1.3 | -1.5 | 0   | 82 | 1.5  | 1.14  | 6.8   | 155 | SILVER MAPLE FARMS INC     | ME   |
| 1,370 GR SHAN-MAR VERNON DORI            | 067128549       | 3K  |     | 549   | 1   | 66  | 1,536 | -0.10 | 54  | -0.03 | 48   | 346  | 335  | 339  | 3.06 | 1.6 | -0.7 | 0   |    | 0.9  | 0.25  | 6.4   | 155 | GARDNER MARK & SHANNON     | PA   |
| 1,371 CINNAMON RIDGE MADDIX DIAMOND      | 117284726       | 8K  | C   | 849   | 1   | 71  | 1,421 | -0.04 | 59  | -0.02 | 48   | 378  | 350  | 336  | 2.98 | 0.8 | 0.5  | 1   | 79 | 1.0  | -0.81 | 6.0   | 155 | MAXWELL, EDWIN A           | IA   |
| 1,372 MS 508E 3543 E390                  | 115433357       | 3K  |     | 5390  | 3   | 75  | 1,965 | -0.18 | 55  | -0.13 | 47   | 249  | 305  | 378  | 3.29 | 0.4 | 0.1  | 1   | 86 | 0.3  | 1.02  | 8.2   | 155 | MOUNTAIN SHADOW DAIRY      | AZ   |
| 1,373 YOSEMITE SHAWNNEE DUNKIRK M9055    | 840003005781453 | 3K  |     | 9055  | 3   | 71  | 1,626 | -0.19 | 39  | -0.07 | 44   | 372  | 378  | 387  | 2.86 | 2.6 | 0.5  | 2   | 84 | 0.2  | -1.42 | 6.4   | 155 | YOSEMITE JERSEY DAIRY      | CA   |
| 1,374 PR FARIA BROTHERS NASRALLAH 57550  | 840003006316100 | 6K  | C   | 57550 | 2   | 71  | 1,526 | -0.02 | 65  | -0.07 | 42   | 349  | 357  | 373  | 2.97 | 0.6 | 0.2  | 1   | 82 | 1.0  | 0.79  | 6.9   | 155 | FARIA BROS DAIRIES         | TX   |
| 1,375 VALSIGNA AMITY 17972               | 117726392       | 3K  |     | 17972 | 1   | 67  | 1,483 | -0.12 | 46  | -0.07 | 41   | 349  | 361  | 384  | 3.07 | 2.6 | 0.8  | 0   | 75 | 0.6  | 0.67  | 6.5   | 155 | WICKSTROM DAIRIES, LP      | CA   |
| 1,376 SUN VALLEY HEADLINE PANDA          | 117736018       | 3K  |     | 2847  | 1   | 65  | 1,340 | -0.07 | 49  | -0.04 | 40   | 356  | 361  | 379  | 3.13 | 2.9 | -0.1 | 0   | 75 | 1.5  | 2.01  | 5.8   | 155 | SUN VALLEY FARM            | OR   |
| 1,377 HI-KEL TBONE PENCE-ET              | 067100743       | 3K  |     | 743   | 1   | 71  | 756   | 0.19  | 70  | 0.06  | 40   | 396  | 324  | 271  | 3.04 | 0.3 | -0.9 | 1   | 82 | 1.6  | 2.73  | 8.9   | 155 | BOER ANNEKE & GERRET       | TX   |
| 1,378 DUPAT BRAZO 6450                   | 067236450       | 3K  |     | 6450  | 3   | 73  | 1,171 | -0.14 | 28  | -0.02 | 38   | 382  | 362  | 351  | 2.95 | 3.6 | -0.2 | 2   | 80 | 1.2  | 2.54  | 7.2   | 155 | WICKSTROM JERSEY FARMS INC | CA   |
| 1,379 GR FARIA BROTHERS RENEGADE 88065   | 840003004633704 | 6K  | F   | 88065 | 1   | 70  | 1,058 | 0.10  | 66  | 0.01  | 38   | 466  | 436  | 419  | 3.02 | 3.1 | 0.2  | 0   |    | 0.5  | -0.59 | 6.4   | 155 | FARIA BROS DAIRIES         | TX   |
| 1,380 GR HIGH LAWN GOOSE TIFFANY         | 116330965       | 3K  |     | 9274  | 3   | 69  | 976   | 0.09  | 61  | 0.01  | 38   | 473  | 422  | 374  | 2.76 | 2.9 | -0.1 | 2   | 83 | 1.0  | 1.03  | 2.7   | 155 | HIGH LAWN FARM             | MA   |
| 1,381 STEINHAUERS RENEGADE PEACANPIE-ET  | 117255593       | 3K  |     | 605   | 1   | 69  | 599   | 0.24  | 73  | 0.08  | 38   | 450  | 373  | 318  | 3.12 | 1.3 | -0.6 | 1   | 85 | 1.7  | 2.68  | 7.1   | 155 | STEINHAUERS JERSEYS        | WI   |
| 1,382 GOFF ROCKET 7889                   | 067077889       | 8K  | C   | 7889  | 4   | 73  | 1,323 | -0.15 | 32  | -0.05 | 37   | 317  | 318  | 321  | 2.87 | 1.1 | 1.4  | 2   | 83 | 0.8  | 2.88  | 8.0   | 155 | GOFF, BUSTER               | NM   |
| 1,383 GR GRAMMER DALE BARBRA             | 067192715       | 3K  |     | 2715  | 2   | 70  | 1,256 | -0.01 | 55  | -0.04 | 37   | 381  | 384  | 398  | 3.07 | 3.4 | -0.2 | 2   | 78 | 1.1  | 2.47  | 5.6   | 155 | GRAMMER JERSEY FARM LLC    | OH   |
| 1,384 OHIO SENATOR ARTIST 40             | 117697870       | 8K  | F   | 40    | 1   | 66  | 1,026 | 0.00  | 48  | 0.00  | 37   | 461  | 416  | 373  | 2.72 | 3.2 | -0.3 | 0   |    | 0.6  | 1.45  | 4.7   | 155 | OHIO STATE UNIVERSITY      | OH   |
| 1,385 SUNSET CANYON MATINEE DAFFY 937-ET | 117267677       | 50K | F   | 1937  | 1   | 72  | 991   | 0.17  | 79  | 0.00  | 37   | 452  | 420  | 401  | 3.00 | 2.0 | 0.3  | 1   | 85 | 0.5  | -0.16 | 5.9   | 155 | SUNSET CANYON & HALE KARA  | OR   |
| 1,386 BELLWOOD RENEGADE TALLIE-ET        | 117348208       | 3K  |     | 267   | 1   | 67  | 517   | 0.20  | 62  | 0.10  | 37   | 483  | 394  | 323  | 2.99 | 2.5 | 0.0  | 1   | 80 | 1.5  | 1.42  | 6.3   | 155 | WAKKER DAIRY               | WI   |
| 1,387 DEN-KEL KYROS JAUDER-ET            | 067100830       | 3K  |     | 830   | 1   | 68  | 502   | 0.18  | 56  | 0.10  | 37   | 456  | 363  | 288  | 2.99 | 2.0 | -1.7 | 1   | 80 | 1.7  | 4.25  | 7.0   | 155 | RIVER VALLEY FARM          | IL   |
| 1,388 GR COLD RUN GANNON TAILER          | 117057869       | 8K  | F   | 505   | 2   | 73  | 1,113 | -0.07 | 38  | -0.02 | 36   | 343  | 328  | 320  | 2.96 | 2.7 | -0.3 | 2   | 87 | 1.3  | 3.88  | 6.1   | 155 | COLD RUN JERSEYS LLC       | OH   |
| 1,389 GR AHLEM DALE BUTTONS 33274-ET     | 066622707       | 8K  | F   | 33274 | 2   | 74  | 1,086 | -0.02 | 45  | -0.01 | 35   | 430  | 411  | 398  | 2.92 | 4.1 | 0.5  | 2   | 81 | 1.3  | 1.82  | 7.1   | 155 | AHLEM, WILLIAM JR          | CA   |
| 1,390 WILSONVIEW CHAMPS MOMENTO          | 117595208       | 3K  |     | 1865  | 0   | 67  | 1,080 | -0.04 | 42  | -0.02 | 35   | 397  | 380  | 370  | 2.95 | 2.9 | 0.4  | 0   | 80 | 1.3  | 1.88  | 8.7   | 155 | WILSONVIEW DAIRY           | OR   |
| 1,391 GR SAND CREEKS TBONE 4990          | 117984149       | 50K | F   | 4990  | 2   | 71  | 738   | 0.03  | 40  | 0.05  | 35   | 443  | 383  | 334  | 2.90 | 2.6 | 0.2  | 1   | 87 | 1.2  | 2.33  | 7.2   | 155 | SAND CREEK DAIRY LLC       | MI   |
| 1,392 CAITLINS HEADLINE DAISY 22046      | 067422046       | 3K  |     | 22046 | 1   | 71  | 1,599 | -0.23 | 28  | -0.12 | 34   | 407  | 454  | 500  | 2.92 | 6.0 | 0.9  | 2   | 82 | 0.2  | -0.67 | 9.0   | 155 | AVILA, CAITLIN             | TX   |
| 1,393 PEARLMONT RENEGADE DENISE-ET       | 067104393       | 3K  |     | 34393 | 1   | 69  | 890   | 0.08  | 56  | 0.01  | 34   | 459  | 428  | 411  | 3.05 | 4.1 | 0.0  | 1   | 87 | 1.4  | 1.03  | 7.5   | 155 | D & E JERSEYS              | TX   |
| 1,394 YOSEMITE KOKOMO ARTIST H3204       | 840003001258787 | 8K  | F   | 3204  | 4   | 73  | 840   | 0.10  | 57  | 0.02  | 34   | 464  | 419  | 380  | 2.85 | 2.6 | 0.7  | 3   | 86 | 0.6  | 0.88  | 4.2   | 155 | YOSEMITE JERSEY DAIRY      | CA   |
| 1,395 WOODSTOCK IMPULS CHLOE             | 116563770       | 3K  |     | 1121  | 2   | 70  | 736   | 0.06  | 46  | 0.04  | 34   | 449  | 397  | 358  | 3.01 | 3.2 | 0.8  | 2   | 87 | 0.9  | 1.70  | 5.1   | 155 | WOODS, GREG                | OR   |
| 1,396 CDF TUESDAY FUTURITY H0700         | 840003001527153 | 3K  |     | 20700 | 3   | 73  | 1,074 | -0.05 | 40  | -0.03 | 33   | 393  | 382  | 379  | 2.95 | 2.5 | 0.2  | 3   | 88 | 1.9  | 3.46  | 8.3   | 155 | C & S LIVESTOCK            | CA   |
| 1,397 BW RENEGADE WEDNESDAY W484         | 117660751       | 3K  |     | 1478  | 1   | 67  | 970   | 0.05  | 55  | -0.01 | 32   | 462  | 439  | 420  | 2.86 | 3.2 | -0.1 | 0   |    | 1.2  | 1.89  | 7.1   | 155 | BRENTWOOD FARMS            | CA   |
| 1,398 BERRYS ACADEMY ESPERANZA-ET        | 117317336       | 3K  |     | 1021  | 1   | 68  | 1,142 | -0.09 | 36  | -0.05 | 31   | 332  | 340  | 352  | 2.96 | 2.7 | 0.6  | 1   | 83 | 1.4  | 5.06  | 7.2   | 155 | BERRY COLLEGE              | GA   |
| 1,399 VALSIGNA ACADEMY 17395             | 117610756       | 3K  |     | 17395 | 1   | 69  | 925   | 0.03  | 49  | -0.01 | 31   | 397  | 377  | 365  | 2.97 | 3.3 | -0.2 | 0   | 77 | 2.0  | 4.86  | 8.0   | 155 | WICKSTROM DAIRIES, LP      | CA   |
| 1,400 PEARLMONT HEADLINE MARGARET        | 067104380       | 3K  |     | 380   | 1   | 69  | 888   | -0.04 | 32  | 0.00  | 31   | 396  | 377  | 370  | 3.06 | 4.4 | 0.2  | 1   | 90 | 1.5  | 4.09  | 8.9   | 155 | PEARL, CHRISTOPHER G       | VT   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | CCN   | GPTA |     |       |       |     |       |      |      |      |      |      | TYPE |      |     |    |      | Owner | ST   |     |                                   |      |
|--|-----------------|-----|-----|-------|------|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|------|-----|-----------------------------------|------|
|  |                 |     |     |       | Rec  | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                               | GJPI |
| 1.401 CLOVER PATCH ALEX MEMORY           | 117305926       | 3K  |     | 1977  | 1    | 67  | 689   | 0.20  | 67  | 0.03  | 31   | 463  | 420  | 389  | 3.01 | 2.7  | 0.5  | 1   | 79 | 1.2  | 2.18  | 5.6  | 155 | KOZAK, ALAN                       | OH   |
| 1.402 KEMPKO IMPULS DEDE DOLL            | 067154200       | 3K  |     | 4200  | 2    | 69  | 584   | 0.07  | 41  | 0.05  | 31   | 456  | 402  | 363  | 3.04 | 4.2  | 0.5  | 1   | 78 | 1.1  | 3.20  | 6.2  | 155 | KEMPKO SYNDICATE                  | MA   |
| 1.403 PETERSON ALEXANDER MCKENZIE-ET     | 117386398       | 6K  | F   | 787   | 1    | 71  | 501   | 0.14  | 51  | 0.07  | 31   | 526  | 455  | 395  | 2.90 | 4.5  | 1.0  | 1   | 78 | 0.5  | 0.40  | 8.2  | 155 | PETERSON ERIC & ROY               | OR   |
| 1.404 HILMAR ACADEMY 28531               | 067328531       | 6K  | F   | 28531 | 2    | 73  | 804   | -0.09 | 22  | 0.00  | 29   | 472  | 442  | 415  | 2.86 | 6.0  | 0.5  | 1   | 85 | 1.1  | 2.64  | 7.5  | 155 | AHLEM, CHARLES                    | CA   |
| 1.405 GR JER-Z-BOYZ MAXIMUM 30827        | 117647503       | 3K  |     | 30827 | 2    | 71  | 788   | 0.19  | 72  | 0.00  | 29   | 478  | 455  | 441  | 3.00 | 3.6  | -0.3 | 2   | 85 | 0.8  | 1.93  | 6.2  | 155 | JER-Z-BOYZ                        | CA   |
| 1.406 AHLEM LEGAL SOUVENIR 37297         | 070048771       | 8K  | C   | 37297 | 1    | 69  | 1,009 | -0.10 | 28  | -0.04 | 28   | 328  | 345  | 375  | 3.20 | 3.0  | 1.2  | 1   | 77 | 1.5  | 6.09  | 6.3  | 155 | AHLEM, WILLIAM JR                 | CA   |
| 1.407 LYON CELEBRITY CECE-ET             | 117046049       | 50K | C   | 813   | 1    | 75  | 830   | 0.10  | 57  | -0.01 | 28   | 399  | 382  | 371  | 2.95 | 2.5  | -0.3 | 1   | 88 | 2.0  | 4.75  | 10.7 | 155 | RIVER VALLEY FARM                 | IL   |
| 1.408 AHLEM LEGAL MELODIA 139            | 070047113       | 8K  | C   | 139   | 0    | 63  | 617   | 0.02  | 31  | 0.04  | 28   | 445  | 399  | 362  | 2.94 | 3.6  | 1.2  | 0   | 82 | 1.6  | 3.54  | 6.0  | 155 | AHLEM, WILLIAM JR                 | CA   |
| 1.409 BW RENEGADE NINA U760              | 117251955       | 6K  | F   | 582   | 1    | 71  | 575   | 0.15  | 55  | 0.04  | 28   | 462  | 414  | 378  | 2.99 | 3.5  | 0.2  | 1   | 83 | 1.7  | 3.72  | 6.4  | 155 | BRENTWOOD FARMS                   | CA   |
| 1.410 GR RED TOP ALLSTAR 16739           | 067516739       | 8K  | F   | 16739 | 1    | 70  | 449   | 0.29  | 74  | 0.06  | 28   | 517  | 453  | 400  | 2.94 | 3.0  | 0.1  | 0   | 78 | 0.5  | 1.79  | 6.1  | 155 | RED TOP JERSEYS                   | CA   |
| 1.411 PETERSON ALEXANDER CLARISSE        | 117406364       | 8K  | F   | 780   | 1    | 69  | 344   | 0.22  | 58  | 0.08  | 28   | 541  | 466  | 404  | 2.94 | 4.2  | 0.9  | 1   | 83 | 0.6  | 1.59  | 5.8  | 155 | PETERSON ERIC & ROY               | OR   |
| 1.412 IRISHTOWNS W1922 ABE TOGO          | 067211922       | 3K  |     | 1922  | 3    | 69  | 342   | 0.14  | 40  | 0.09  | 28   | 508  | 424  | 348  | 2.83 | 4.1  | 0.3  | 2   | 88 | 0.7  | 2.83  | 4.7  | 155 | IRISHTOWN ACRES                   | PA   |
| 1.413 GR HILMAR MANTLE 26093             | 067326093       | 6K  | F   | 26093 | 2    | 73  | 838   | 0.07  | 52  | -0.02 | 27   | 468  | 449  | 433  | 2.87 | 4.1  | 0.5  | 3   | 85 | 1.4  | 3.42  | 5.9  | 155 | AHLEM, CHARLES                    | CA   |
| 1.414 DALHART CELEBRITY 32354            | 067432354       | 6K  | F   | 32354 | 1    | 73  | 731   | 0.00  | 34  | 0.00  | 26   | 458  | 431  | 407  | 2.87 | 5.2  | 0.4  | 1   | 81 | 2.2  | 3.65  | 10.2 | 155 | AHLEM, MARK                       | CA   |
| 1.415 O.F. ABE PATRIECE                  | 067126126       | 3K  |     | 6126  | 5    | 74  | 118   | 0.19  | 41  | 0.11  | 26   | 524  | 420  | 327  | 2.83 | 4.1  | 0.2  | 2   | 87 | 0.6  | 3.68  | 7.0  | 155 | OWENS FARMS INC                   | WI   |
| 1.416 AHLEM IATOLA DORCAS 19190          | 064552744       | 8K  | F   | 19190 | 4    | 76  | 739   | 0.04  | 40  | -0.02 | 25   | 405  | 392  | 386  | 3.00 | 3.2  | 0.7  | 2   | 84 | 1.6  | 4.39  | 8.9  | 155 | AHLEM, WILLIAM JR                 | CA   |
| 1.417 AHLEM LEGAL BENITA 35604           | 069042810       | 8K  | C   | 35604 | 1    | 70  | 505   | 0.10  | 42  | 0.03  | 24   | 468  | 430  | 401  | 3.00 | 3.9  | 1.2  | 1   | 83 | 1.4  | 4.38  | 7.0  | 155 | AHLEM, WILLIAM JR                 | CA   |
| 1.418 HEARTLAND ZUMA CABERNET            | 067262430       | 8K  | F   | 2430  | 1    | 69  | 296   | 0.12  | 36  | 0.07  | 23   | 502  | 434  | 370  | 2.80 | 4.8  | 1.0  | 0   | 82 | 0.7  | 3.73  | 6.2  | 155 | BDC DAIRY                         | CO   |
| 1.419 WHITE ROCK L. FREIGHTLINER         | 115819186       | 3K  |     | 823   | 4    | 73  | -69   | 0.18  | 29  | 0.13  | 22   | 547  | 443  | 352  | 2.92 | 5.2  | 1.9  | 2   | 91 | 1.0  | 2.91  | 7.1  | 155 | WHITE ROCK FARM, LLC              | VT   |
| 1.420 RIC-A-DEA ACTION VIRGINIA          | 116895985       | 8K  | F   | 90009 | 2    | 75  | 865   | -0.03 | 35  | -0.05 | 21   | 413  | 420  | 425  | 2.85 | 4.7  | 0.3  | 2   | 87 | 2.3  | 5.72  | 11.0 | 155 | AVILA RICHARD & JENNIFER M        | TX   |
| 1.421 HILMAR ZUMA 34228                  | 067434228       | 6K  | F   | 34228 | 0    | 63  | 650   | 0.06  | 42  | -0.01 | 21   | 455  | 440  | 427  | 2.88 | 5.1  | 0.2  | 0   | 82 | 1.5  | 4.74  | 5.0  | 155 | AHLEM, CHARLES                    | CA   |
| 1.422 SF ALEXANDER 9504                  | 115334180       | 3K  |     | 9504  | 5    | 75  | 570   | 0.13  | 50  | 0.00  | 19   | 525  | 511  | 498  | 2.90 | 5.5  | 1.9  | 2   | 86 | 0.7  | 1.80  | 7.0  | 155 | STAAS FARM INC                    | CA   |
| 1.423 PINE HILL APPARITION SYDNEY        | 116547350       | 8K  | F   | 3134  | 3    | 75  | 187   | 0.14  | 33  | 0.05  | 15   | 529  | 478  | 427  | 2.78 | 5.7  | 1.1  | 2   | 88 | 1.4  | 5.10  | 7.4  | 155 | LINDSAYS PINE HILL JERSEY FARM    | OH   |
| 1.424 MS 508E 4711 F209                  | 115992157       | 3K  |     | 6209  | 3    | 75  | 1,715 | -0.13 | 52  | -0.05 | 51   | 369  | 365  | 375  | 3.04 | 2.1  | -0.6 | 2   | 78 | 0.3  | -1.36 | 7.7  | 154 | MOUNTAIN SHADOW DAIRY             | AZ   |
| 1.425 SUN VALLEY TBONE SUGAR             | 117482544       | 8K  | F   | 2667  | 2    | 72  | 1,432 | -0.04 | 58  | -0.01 | 49   | 302  | 277  | 272  | 3.12 | -0.5 | -0.9 | 1   | 84 | 1.6  | 2.13  | 8.2  | 154 | SUN VALLEY FARM                   | OR   |
| 1.426 DBW JUSTIN ELAINE                  | 117335253       | 6K  | F   | 486   | 1    | 71  | 1,288 | 0.02  | 62  | 0.01  | 49   | 371  | 332  | 314  | 3.12 | 0.7  | -0.3 | 1   | 88 | 1.2  | -0.13 | 8.1  | 154 | SNOW JARRETT P & SNOKREST JERSEYS | VT   |
| 1.427 D&E VIRGIL LOUIE 22227             | 067422227       | 3K  |     | 22227 | 1    | 68  | 1,499 | -0.04 | 61  | -0.05 | 45   | 394  | 399  | 421  | 3.18 | 2.7  | -0.3 | 1   | 84 | 0.7  | -1.26 | 6.2  | 154 | D & E JERSEYS                     | TX   |
| 1.428 D&E AZTEC KENNY 22100              | 067422100       | 3K  |     | 22100 | 1    | 64  | 1,347 | -0.07 | 47  | -0.01 | 45   | 372  | 348  | 336  | 2.99 | 2.0  | -0.8 | 1   | 82 | 0.8  | 1.30  | 6.2  | 154 | DANIELS, MASON                    | TN   |
| 1.429 PR RFI MATINEE 409 BUTTONS 619     | 116271639       | 3K  |     | 619   | 2    | 67  | 1,656 | -0.09 | 58  | -0.07 | 44   | 345  | 363  | 389  | 3.02 | 1.9  | -0.6 | 2   | 80 | 0.6  | 0.66  | 3.9  | 154 | ROWLEY, STEVE                     | MS   |
| 1.430 GR FARIA BROTHERS APPRENTICE 62913 | 840003005642010 | 6K  | F   | 62913 | 3    | 71  | 1,468 | -0.07 | 55  | -0.04 | 44   | 319  | 317  | 328  | 3.05 | 1.2  | -0.6 | 0   | 85 | 1.0  | 1.94  | 4.8  | 154 | FARIA DAIRY                       | AZ   |
| 1.431 JVB RED HOT LEGAL JACE             | 840003007065991 | 3K  |     | 136   | 1    | 62  | 1,427 | -0.10 | 46  | -0.04 | 43   | 356  | 350  | 351  | 2.96 | 2.2  | -0.2 | 1   | 75 | 0.8  | 1.90  | 6.2  | 154 | VANBUSKIRK JIM & JANET            | MI   |
| 1.432 CLOVER PATCH IMPULS CASIO          | 117268258       | 3K  |     | 1869  | 2    | 69  | 859   | 0.06  | 50  | 0.06  | 43   | 436  | 362  | 306  | 2.99 | 1.9  | 0.1  | 1   | 80 | 0.6  | 0.32  | 6.8  | 154 | KOZAK, ALAN                       | OH   |
| 1.433 VALSIGNA KANOO 17075               | 117550737       | 3K  |     | 17075 | 1    | 54  | 1,396 | -0.10 | 45  | -0.05 | 42   | 332  | 328  | 332  | 2.98 | 2.1  | 1.1  | 1   | 72 | -0.1 | 1.52  | -5.1 | 154 | WICKSTROM DAIRIES, LP             | CA   |
| 1.434 GR SCHULTZ DALE HARMAIL            | 067269177       | 3K  |     | 9177  | 2    | 70  | 1,252 | -0.10 | 39  | -0.02 | 42   | 404  | 378  | 362  | 2.96 | 3.5  | 0.2  | 2   | 86 | 0.6  | 0.55  | 5.3  | 154 | HUFFARD DAIRY FARMS               | VA   |
| 1.435 MULTI-ROSE VALENTINO 3816-ET       | 840003004599428 | 3K  |     | 3816  | 0    | 65  | 1,110 | 0.05  | 60  | 0.01  | 42   | 381  | 341  | 314  | 2.99 | 1.6  | -1.6 | 1   | 80 | 1.6  | 2.29  | 9.4  | 154 | MULTI ROSE JERSEYS INC            | IA   |
| 1.436 CMR NATIONAL KARLY MAE             | 115748105       | 8K  | F   | 332   | 4    | 73  | 833   | 0.15  | 67  | 0.07  | 42   | 498  | 423  | 364  | 2.94 | 2.6  | -0.3 | 3   | 90 | 0.5  | -0.75 | 6.5  | 154 | REESE, COY M                      | NC   |
| 1.437 GR FARIA BROTHERS BLAISE 68640     | 840003007170758 | 6K  | F   | 68640 | 1    | 63  | 1,770 | -0.25 | 34  | -0.12 | 40   | 305  | 350  | 398  | 2.97 | 2.6  | 0.1  | 1   | 85 | 1.1  | 3.09  | 3.5  | 154 | FARIA BROS DAIRIES                | TX   |
| 1.438 HEARTLAND VALENTINO HARPER         | 067232269       | 50K | F   | 2269  | 0    | 67  | 1,104 | 0.05  | 60  | 0.00  | 40   | 454  | 421  | 399  | 2.95 | 2.9  | 0.0  | 2   | 71 | 0.9  | -0.83 | 7.4  | 154 | MULTI ROSE JERSEYS INC            | IA   |
| 1.439 SCOTCH VIEW JARRETT EMA            | 067301691       | 8K  | F   | 1401  | 1    | 72  | 1,195 | -0.11 | 34  | -0.02 | 39   | 380  | 360  | 349  | 2.96 | 2.2  | 0.7  | 1   | 84 | 1.3  | 1.74  | 8.1  | 154 | DUTCH HOLLOW FARM                 | NY   |
| 1.440 VALSIGNA VIRGIL 17740              | 117614031       | 3K  |     | 17740 | 1    | 68  | 1,153 | 0.03  | 58  | -0.01 | 39   | 325  | 314  | 324  | 3.23 | 0.9  | -0.3 | 0   | 80 | 1.1  | 3.22  | 7.0  | 154 | WICKSTROM DAIRIES, LP             | CA   |
| 1.441 IRISHTOWNS W1944 IMPULS LACTO      | 067211944       | 3K  |     | 1944  | 2    | 69  | 966   | 0.03  | 53  | 0.03  | 39   | 405  | 357  | 323  | 2.97 | 1.6  | -0.4 | 1   | 85 | 0.8  | 2.07  | 5.5  | 154 | PHEASANT, ALEXIS                  | PA   |
| 1.442 WILSONVIEW CHAMP FAN               | 117255959       | 3K  |     | 1676  | 1    | 69  | 1,141 | 0.03  | 58  | -0.01 | 38   | 379  | 368  | 371  | 3.13 | 2.2  | -0.3 | 1   | 88 | 0.8  | 1.98  | 8.9  | 154 | WILSONVIEW DAIRY                  | OR   |
| 1.443 PEARLMONT VIBRANT MIRACLE          | 117351673       | 3K  |     | 369   | 1    | 68  | 941   | -0.05 | 34  | 0.02  | 38   | 463  | 420  | 388  | 2.97 | 4.6  | 0.1  | 1   | 81 | 0.4  | -0.13 | 7.8  | 154 | PEARL, CHRISTOPHER G              | VT   |
| 1.444 CAL-MART KARL PHEBE 3847           | 117467853       | 3K  |     | 3847  | 1    | 68  | 814   | 0.10  | 56  | 0.04  | 38   | 476  | 416  | 367  | 2.93 | 3.1  | -0.3 | 1   | 77 | 0.6  | 0.65  | 6.1  | 154 | MARTIN DAIRY LLC                  | OR   |
| 1.445 GR DP TBONE ILEEN 635              | 067081635       | 8K  | F   | 635   | 2    | 73  | 683   | 0.23  | 74  | 0.07  | 38   | 472  | 394  | 329  | 2.92 | 1.2  | -0.4 | 1   | 85 | 1.0  | 0.46  | 7.0  | 154 | DESERT PARK JERSEYS               | OR   |
| 1.446 VALSIGNA TBONE 12833               | 116591304       | 3K  |     | 12833 | 2    | 71  | 677   | 0.15  | 59  | 0.07  | 38   | 393  | 317  | 257  | 2.97 | 0.7  | -1.4 | 2   | 78 | 1.6  | 3.76  | 8.4  | 154 | WICKSTROM DAIRIES, LP             | CA   |
| 1.447 GR SUGAR GROVE DALE ADDIE          | 067251271       | 3K  |     | 1271  | 3    | 70  | 1,369 | -0.03 | 55  | -0.06 | 37   | 402  | 413  | 429  | 2.98 | 4.4  | -0.2 | 2   | 81 | 0.7  | 0.53  | 3.7  | 154 | BLANKENSHIP, JOE G                | VA   |
| 1.448 GR DUPAT GANNON 7055               | 067287055       | 3K  |     | 7055  | 2    | 63  | 912   | 0.11  | 60  | 0.03  | 37   | 441  | 390  | 346  | 2.84 | 2.5  | 0.6  | 2   | 81 | 0.5  | 0.19  | 2.3  | 154 | WICKSTROM JERSEY FARMS INC        | CA   |
| 1.449 VALSIGNA KILOWATT 17282            | 117552609       | 3K  |     | 17282 | 0    | 64  | 838   | 0.07  | 53  | 0.03  | 37   | 447  | 397  | 361  | 3.00 | 3.2  | 0.0  | 0   | 77 | 0.3  | 0.95  | 7.8  | 154 | WICKSTROM DAIRIES, LP             | CA   |
| 1.450 LYON IMPULS ETERNITY               | 116996583       | 8K  | C   | 90014 | 2    | 72  | 740   | 0.13  | 59  | 0.05  | 37   | 436  | 368  | 313  | 2.91 | 1.5  | -0.1 | 2   | 86 | 1.0  | 2.36  | 5.8  | 154 | AVILA, SIDNEY J                   | TX   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |    |      | Owner | ST   |     |   |      |
|---|-----------------|----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|----|------|-------|------|-----|---|------|
|   |                 |    |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS | PTAT |       |      | JUI | GFI   | GJPI |
| 1,451 DEN-KEL CYNTHIA-ET                | 067100804       | 3K |     | 804              | 1   | 67  | 738   | 0.09  | 50  | 0.07  | 37   | 435  | 371  | 325              | 3.03 | 2.8  | 0.4  | 0   | 84 | 1.0  | 2.06  | 6.3  | 154 | KELLER, KIP A                               | NY   |
| 1,452 SUN VALLEY IMPULS GLITTER         | 115348426       | 3K |     | 1848             | 5   | 73  | 641   | 0.13  | 55  | 0.07  | 37   | 489  | 415  | 358              | 3.03 | 2.9  | 1.3  | 2   | 87 | 0.0  | -0.55 | 5.4  | 154 | SUN VALLEY FARM                             | OR   |
| 1,453 GR HILMAR BENEFACTOR 20843        | 067320843       | 6K | F   | 20843            | 3   | 74  | 1,090 | 0.05  | 58  | -0.01 | 36   | 402  | 383  | 372              | 2.94 | 2.3  | -1.0 | 2   | 87 | 1.6  | 3.14  | 6.4  | 154 | AHLEM, CHARLES                              | CA   |
| 1,454 MS VERMEER 4648 G984              | 117415799       | 3K |     | 7984             | 1   | 68  | 966   | 0.08  | 59  | 0.01  | 36   | 467  | 432  | 409              | 2.98 | 3.8  | 1.1  | 1   | 81 | 0.5  | -0.34 | 5.5  | 154 | MOUNTAIN SHADOW DAIRY                       | AZ   |
| 1,455 FOREST GLEN IMPULS SPARKLE        | 067261839       | 3K |     | 1839             | 3   | 71  | 574   | 0.13  | 52  | 0.08  | 36   | 504  | 421  | 353              | 2.93 | 3.2  | 0.8  | 2   | 84 | 0.3  | 0.15  | 5.7  | 154 | FOREST GLEN JERSEYS                         | OR   |
| 1,456 COVINGTON MAGNUM DARLA            | 116475202       | 3K |     | 592              | 3   | 71  | 1,070 | -0.13 | 24  | -0.02 | 35   | 399  | 385  | 381              | 3.02 | 4.4  | -0.4 | 2   | 91 | 1.8  | 3.24  | 8.0  | 154 | COVINGTON JERSEYS & COVINGTON HANNAH & TIT  | IA   |
| 1,457 GR CAL-MART TBONE JEMIE 3187      | 116951085       | 3K |     | 3187             | 2   | 70  | 936   | 0.01  | 43  | 0.01  | 35   | 419  | 390  | 374              | 3.05 | 3.4  | 0.8  | 2   | 84 | 0.8  | 1.18  | 7.1  | 154 | MARTIN DAIRY LLC                            | OR   |
| 1,458 HEARTLAND ABE SUNSHINE            | 067191661       | 3K |     | 1661             | 4   | 72  | 568   | 0.28  | 78  | 0.08  | 35   | 495  | 417  | 355              | 2.97 | 2.0  | -0.7 | 3   | 88 | 0.8  | 1.19  | 5.3  | 154 | HEARTLAND JERSEYS                           | KS   |
| 1,459 FOREST GLEN IMPULS VICKS          | 067354229       | 3K |     | 4229             | 1   | 66  | 346   | 0.22  | 57  | 0.12  | 35   | 537  | 434  | 352              | 3.02 | 3.5  | 1.1  | 0   | 75 | 0.2  | 0.01  | 5.6  | 154 | FOREST GLEN JERSEYS                         | OR   |
| 1,460 HIGH LAWN VIBRANT DANCE TIME      | 117567496       | 3K |     | 12548            | 1   | 67  | 1,165 | 0.02  | 57  | -0.04 | 34   | 422  | 414  | 409              | 2.88 | 3.4  | -0.8 | 0   | 79 | 0.1  | 1.02  | 6.3  | 154 | HIGH LAWN FARM                              | MA   |
| 1,461 WAUNAKEE LYNDON PITINO 2863       | 069967260       | 3K |     | 2863             | 1   | 68  | 1,067 | -0.06 | 38  | -0.02 | 34   | 355  | 345  | 344              | 3.00 | 2.3  | 0.1  | 2   | 86 | 1.6  | 4.47  | 6.6  | 154 | LAUFENBERG, GERALD                          | WI   |
| 1,462 GR HOLMESLAND GANNON ONYX         | 117962705       | 8K | C   | 1412             | 1   | 66  | 1,015 | 0.00  | 45  | -0.01 | 34   | 380  | 360  | 350              | 2.98 | 3.2  | 0.8  | 0   | 83 | 0.8  | 2.45  | 4.0  | 154 | HOLMES STEVEN B & JEFFREY A                 | NH   |
| 1,463 CAL-MART SENECA BERNETA 3677-ET   | 117336674       | 3K |     | 3677             | 1   | 67  | 717   | 0.08  | 49  | 0.04  | 34   | 433  | 382  | 348              | 3.07 | 3.0  | 0.6  | 1   | 84 | 1.0  | 2.21  | 5.5  | 154 | MARTIN DAIRY LLC                            | OR   |
| 1,464 GR SUNWEST GHENT BEAU J22810      | 840003004261698 | 3K |     | 22810            | 3   | 73  | 677   | 0.13  | 55  | 0.05  | 34   | 474  | 411  | 359              | 2.93 | 3.6  | -0.7 | 2   | 84 | 1.0  | 1.98  | 6.3  | 154 | SUNWEST JERSEY DAIRY                        | CA   |
| 1,465 GR FARIA BROTHERS MAXIMUM 63239   | 840003005642336 | 3K |     | 27110            | 3   | 69  | 627   | 0.15  | 56  | 0.06  | 34   | 475  | 409  | 356              | 2.95 | 2.5  | 0.6  | 1   | 77 | 0.6  | 0.75  | 6.1  | 154 | FARIA DAIRY                                 | AZ   |
| 1,466 PEARLMONT TBONE MARGARITA         | 115243927       | GI |     | 230              | 5   | 65  | 399   | 0.15  | 47  | 0.10  | 34   | 462  | 369  | 294              | 3.00 | 2.4  | -0.3 | 2   | 92 | 1.6  | 3.32  | 6.1  | 154 | PEARL, CHRISTOPHER G                        | VT   |
| 1,467 CAL-MART TBONE AIDAH 3655         | 117275047       | 6K | F   | 3655             | 2   | 73  | 717   | 0.14  | 60  | 0.04  | 33   | 452  | 395  | 345              | 2.85 | 1.7  | 0.0  | 1   | 80 | 1.5  | 1.88  | 9.1  | 154 | MARTIN DAIRY LLC                            | OR   |
| 1,468 FOREST GLEN ABES DOLL             | 067048722       | 3K |     | 8722             | 5   | 73  | 655   | 0.12  | 52  | 0.05  | 33   | 475  | 417  | 373              | 2.99 | 4.2  | -0.2 | 2   | 90 | 0.6  | 1.72  | 5.7  | 154 | FOREST GLEN JERSEYS                         | OR   |
| 1,469 GR COLD RUN GANNON CELESTIAL      | 117410413       | 8K | F   | 586              | 1   | 72  | 1,178 | -0.17 | 21  | -0.05 | 32   | 339  | 341  | 344              | 2.87 | 2.9  | 0.3  | 1   | 87 | 1.6  | 5.05  | 6.8  | 154 | COLD RUN JERSEYS LLC                        | OH   |
| 1,470 WILSONVIEW ECLIPSE MORRETTI-ET    | 117557538       | 3K |     | 1840             | 1   | 70  | 1,052 | 0.04  | 54  | -0.03 | 32   | 390  | 383  | 380              | 2.93 | 2.9  | -0.5 | 0   | 82 | 1.7  | 3.07  | 7.7  | 154 | WILSONVIEW DAIRY                            | OR   |
| 1,471 CAL-MART BLADE RAMONA 3921        | 117514014       | 6K | F   | 3921             | 1   | 70  | 734   | 0.06  | 45  | 0.03  | 32   | 411  | 362  | 320              | 2.89 | 2.0  | 0.6  | 1   | 79 | 0.9  | 2.88  | 6.1  | 154 | MARTIN DAIRY LLC                            | OR   |
| 1,472 HILMAR ACTION 18836               | 067218836       | 6K | F   | 18836            | 4   | 75  | 957   | -0.05 | 37  | -0.02 | 31   | 410  | 396  | 390              | 3.00 | 4.1  | 0.9  | 2   | 84 | 0.8  | 1.77  | 7.5  | 154 | AHLEM, CHARLES                              | CA   |
| 1,473 HEINZ LOTTO LINETTE 7132          | 069401844       | 3K |     | 7132             | 1   | 69  | 902   | -0.01 | 39  | -0.01 | 31   | 403  | 376  | 353              | 2.85 | 3.1  | 0.3  | 1   | 82 | 1.4  | 3.91  | 7.1  | 154 | PROVOAST, COLE                              | MI   |
| 1,474 HACKLINE BUNGY SUNSHINE 725       | 117104516       | 3K |     | 9725             | 2   | 73  | 832   | 0.05  | 49  | 0.01  | 31   | 501  | 465  | 431              | 2.82 | 4.4  | 1.5  | 1   | 77 | 0.2  | -0.32 | 6.8  | 154 | GREATHOUSE, EVELYN A                        | PA   |
| 1,475 GRAMMER IMPULS ROSIE              | 067128587       | 8K | F   | 587              | 1   | 69  | 808   | 0.02  | 42  | 0.01  | 31   | 393  | 376  | 378              | 3.23 | 3.7  | 1.3  | 1   | 83 | 0.7  | 3.47  | 5.7  | 154 | GARDNER MARK & SHANNON                      | PA   |
| 1,476 AVI-LANCHE SPARKY JODY 5082       | 067375082       | 3K |     | 5082             | 1   | 70  | 744   | 0.10  | 53  | 0.02  | 30   | 425  | 386  | 354              | 2.92 | 2.6  | 0.1  | 1   | 75 | 0.7  | 3.03  | 7.7  | 154 | AVILA RICHARD & JENNIFER M                  | TX   |
| 1,477 FOREST GLEN LOUIES POLLY          | 067323875       | 3K |     | 3875             | 1   | 69  | 723   | 0.10  | 52  | 0.01  | 28   | 503  | 468  | 437              | 2.87 | 4.9  | 0.1  | 1   | 80 | 0.6  | 1.57  | 7.1  | 154 | FOREST GLEN JERSEYS                         | OR   |
| 1,478 LANDSCAPE ACADEMY 373             | 117558502       | 6K | F   | 50373            | 1   | 73  | 997   | -0.01 | 45  | -0.04 | 27   | 432  | 429  | 426              | 2.83 | 4.1  | 0.8  | 1   | 82 | 1.0  | 2.85  | 7.8  | 154 | LANDSCAPE JERSEYS                           | CA   |
| 1,479 CDF KARBALA BLAIR N32575          | 840003007460203 | 3K |     | 32575            | 2   | 72  | 849   | -0.01 | 38  | -0.02 | 27   | 390  | 377  | 368              | 2.92 | 3.1  | 0.5  | 1   | 86 | 1.4  | 4.01  | 10.0 | 154 | C & S LIVESTOCK                             | CA   |
| 1,480 AHLEM HEADLINE DAWN 37585         | 070049059       | 8K | F   | 37585            | 1   | 70  | 962   | -0.03 | 39  | -0.04 | 26   | 415  | 417  | 421              | 2.91 | 4.7  | 0.4  | 0   | 65 | 1.8  | 3.50  | 8.9  | 154 | AHLEM, WILLIAM JR                           | CA   |
| 1,481 DUPAT CACTUS 8911                 | 067148911       | 3K |     | 8911             | 1   | 69  | 653   | 0.11  | 51  | 0.01  | 26   | 502  | 464  | 427              | 2.80 | 4.0  | 1.5  | 0   | 77 | 0.2  | 0.79  | 6.6  | 154 | WICKSTROM JERSEY FARMS INC                  | CA   |
| 1,482 HEARTLAND IMPULS LAVONNE          | 067251940       | 3K |     | 1940             | 2   | 70  | 318   | 0.21  | 54  | 0.08  | 26   | 521  | 454  | 400              | 3.00 | 4.1  | 0.8  | 2   | 90 | 1.1  | 2.48  | 6.1  | 154 | HEARTLAND JERSEYS                           | KS   |
| 1,483 VALSIGNA SPARKY 18344             | 117729573       | 6K | F   | 18344            | 0   | 67  | 376   | 0.15  | 45  | 0.06  | 25   | 429  | 365  | 310              | 2.90 | 2.0  | 0.2  | 0   |    | 1.8  | 5.55  | 8.8  | 154 | WICKSTROM DAIRIES, LP                       | CA   |
| 1,484 CAL-MART RENEGADE HELGA 3937-ET   | 117514180       | 3K |     | 3937             | 1   | 69  | 123   | 0.28  | 60  | 0.11  | 24   | 547  | 463  | 391              | 2.96 | 4.4  | 0.6  | 0   | 81 | 1.6  | 2.15  | 6.9  | 154 | MARTIN DAIRY LLC                            | OR   |
| 1,485 BRYNNS RENEGADE BOO               | 117355985       | 3K |     | 291              | 1   | 68  | 60    | 0.30  | 58  | 0.13  | 24   | 530  | 422  | 320              | 2.71 | 3.1  | -0.1 | 1   | 84 | 1.8  | 4.24  | 5.9  | 154 | HEINZ LLOYD, WUSSON RON & TAUCHEN ABBY & IN | WI   |
| 1,486 DP LEGAL CINDY 1113               | 067551113       | 3K |     | 1113             | 1   | 69  | 671   | 0.01  | 33  | -0.01 | 22   | 446  | 423  | 397              | 2.77 | 4.5  | 0.4  | 0   | 82 | 1.9  | 5.27  | 7.4  | 154 | DESERT PARK JERSEYS                         | OR   |
| 1,487 HILMAR ANBAR 26948                | 067326948       | 6K | F   | 26948            | 2   | 72  | 486   | 0.03  | 27  | 0.02  | 22   | 384  | 347  | 313              | 2.88 | 2.7  | 1.0  | 2   | 88 | 2.1  | 7.79  | 6.4  | 154 | SOARES, MARISSA                             | CA   |
| 1,488 CAL-MART ZUMA PAYTON 5338         | 067185338       | 8K | F   | 5338             | 1   | 69  | 136   | 0.23  | 49  | 0.06  | 17   | 559  | 491  | 426              | 2.77 | 5.2  | 1.0  | 0   | 81 | 0.4  | 2.61  | 5.4  | 154 | MARTIN DAIRY LLC                            | OR   |
| 1,489 HAWARDEN PREMIER NORINE           | 067125604       | 3K |     | 604              | 1   | 66  | 68    | 0.13  | 28  | 0.06  | 13   | 569  | 511  | 453              | 2.79 | 6.8  | 1.6  | 0   | 84 | 0.9  | 4.10  | 8.0  | 154 | HAWARDEN JERSEYS INC                        | ID   |
| 1,490 HILMAR LEAL 32099                 | 067432099       | 3K |     | 32099            | 1   | 70  | 1,743 | -0.08 | 66  | -0.06 | 53   | 300  | 296  | 308              | 3.09 | -0.3 | -0.8 | 1   | 73 | 1.0  | -1.04 | 7.9  | 153 | AHLEM, CHARLES                              | CA   |
| 1,491 PR FARIA BROTHERS SHAH 87887      | 840003004633526 | 6K | F   | 87887            | 1   | 57  | 1,584 | -0.13 | 46  | -0.04 | 48   | 379  | 368  | 365              | 2.92 | 2.4  | 0.2  | 1   | 82 | 0.1  | -1.22 | 0.0  | 153 | FARIA BROS DAIRIES                          | TX   |
| 1,492 HILMAR ABE 19637                  | 067219637       | 6K | F   | 19637            | 3   | 74  | 1,331 | 0.00  | 62  | 0.00  | 48   | 406  | 370  | 351              | 3.06 | 1.4  | -0.5 | 2   | 82 | -0.2 | -2.03 | 5.9  | 153 | AHLEM, CHARLES                              | CA   |
| 1,493 GR DUTCH HOLLOW DALE DECADENT     | 116752480       | 8K | F   | 3874             | 3   | 74  | 1,410 | -0.03 | 60  | -0.02 | 47   | 377  | 350  | 336              | 2.98 | 1.6  | -0.5 | 2   | 76 | 0.4  | -0.19 | 5.9  | 153 | DUTCH HOLLOW FARM                           | NY   |
| 1,494 GR FARIA BROTHERS RENEGADE FALCAO | 840003008535145 | 6K | F   | 101777           | 1   | 57  | 1,005 | 0.19  | 82  | 0.06  | 46   | 441  | 372  | 322              | 2.99 | 0.8  | -0.8 | 1   | 76 | 0.4  | -0.86 | -0.8 | 153 | FARIA DAIRY                                 | AZ   |
| 1,495 BOYD-LEE VALENTINO LARISA         | 117538357       | 3K |     | 399              | 1   | 68  | 1,539 | -0.09 | 53  | -0.05 | 44   | 357  | 360  | 372              | 3.01 | 2.1  | -1.0 | 0   |    | 1.3  | 1.23  | 9.2  | 153 | BOYD, DAVID M                               | TN   |
| 1,496 AHLEM IMPULS JANGLES 31601        | 066068985       | 6K | F   | 31601            | 3   | 72  | 995   | -0.01 | 45  | 0.05  | 44   | 439  | 373  | 321              | 2.93 | 2.8  | -0.2 | 2   | 74 | 0.2  | -0.62 | 5.7  | 153 | AHLEM, WILLIAM JR                           | CA   |
| 1,497 DP BRAZO BOSSIE 20                | 115517150       | 3K |     | 20               | 5   | 76  | 1,162 | 0.06  | 63  | 0.01  | 43   | 424  | 386  | 362              | 3.00 | 1.6  | 0.3  | 2   | 84 | 0.5  | -0.87 | 9.4  | 153 | DESERT PARK JERSEYS                         | OR   |
| 1,498 BUTTERCREST VIBRANT MISTRESS      | 117429156       | 3K |     | 470              | 1   | 69  | 1,161 | 0.03  | 58  | 0.01  | 43   | 442  | 402  | 376              | 2.97 | 2.7  | -0.7 | 1   | 82 | 0.5  | -1.19 | 7.5  | 153 | COOPERRIDER & SONS                          | OH   |
| 1,499 GR VIDA BOA ABE 13740             | 067213740       | 6K | F   | 13740            | 2   | 70  | 1,215 | 0.11  | 76  | -0.01 | 42   | 401  | 373  | 356              | 2.97 | 1.2  | -0.4 | 0   |    | 0.3  | 0.02  | 4.3  | 153 | VIDA BOA FARMS                              | CA   |
| 1,500 AHLEM LEGAL BELLA 35627           | 069042833       | 8K | C   | 35627            | 1   | 71  | 1,176 | -0.10 | 35  | 0.00  | 42   | 368  | 340  | 328              | 3.07 | 2.7  | 1.0  | 2   | 77 | 0.9  | 1.26  | 6.9  | 153 | AHLEM, WILLIAM JR                           | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      | Owner | ST   |     |                            |      |
|--|-----------------|----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|------|-----|----------------------------|------|
|  |                 |    |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                        | GJPI |
| 1,501 DP CHAMP ANEKA 709                 | 067089709       | 8K | F   | 709   | 2   | 74  | 1,462 | -0.10 | 48  | -0.06 | 41   | 356  | 362  | 377  | 3.01 | 1.9 | -0.2 | 1   | 80 | 1.1  | 1.24  | 9.0  | 153 | DESERT PARK JERSEYS        | OR   |
| 1,502 RED TOP PLUS 17613                 | 067517613       | 8K | F   | 17613 | 1   | 71  | 1,280 | 0.03  | 61  | -0.02 | 41   | 373  | 361  | 364  | 3.09 | 1.4 | -0.2 | 0   | 74 | 1.1  | 1.72  | 6.6  | 153 | RED TOP JERSEYS            | CA   |
| 1,503 NORSE STAR PLUS N3288              | 067223288       | 8K | F   | 4413  | 1   | 74  | 1,146 | -0.01 | 51  | 0.00  | 41   | 360  | 324  | 298  | 2.91 | 0.5 | -0.1 | 1   | 85 | 1.1  | 1.91  | 8.6  | 153 | NORSE STAR JERSEYS         | WI   |
| 1,504 BARHAMS VALENTINO PRIZE            | 117343098       | 3K |     | 731   | 1   | 71  | 1,292 | -0.03 | 53  | -0.03 | 40   | 370  | 356  | 346  | 2.87 | 1.5 | -0.7 | 1   | 84 | 1.8  | 2.36  | 9.7  | 153 | BARHAM BROS                | TN   |
| 1,505 HILMAR VIRGIL 33619                | 067433619       | 6K | F   | 33619 | 0   | 65  | 1,290 | -0.02 | 54  | -0.03 | 40   | 384  | 381  | 392  | 3.11 | 2.5 | -0.2 | 0   | 78 | 0.4  | 0.54  | 7.5  | 153 | AHLEM, CHARLES             | CA   |
| 1,506 DUPAT LEGAL 8684                   | 067148684       | 8K | C   | 8684  | 1   | 71  | 1,032 | -0.08 | 33  | 0.01  | 40   | 359  | 315  | 284  | 2.96 | 1.8 | 0.4  | 0   |    | 0.9  | 3.01  | 6.6  | 153 | WICKSTROM JERSEY FARMS INC | CA   |
| 1,507 GR FARIA BROTHERS TBONE STACKHOUSE | 840003004858300 | 6K | F   | 45305 | 3   | 66  | 939   | 0.11  | 63  | 0.03  | 40   | 368  | 322  | 294  | 3.07 | 0.8 | -0.5 | 0   | 85 | 1.2  | 2.98  | 3.4  | 153 | FARIA BROS DAIRIES         | TX   |
| 1,508 PR JARS OF CLAY BRAZO 1550 1999    | 067111999       | 3K |     | 1999  | 4   | 72  | 1,453 | -0.17 | 33  | -0.07 | 39   | 332  | 349  | 375  | 3.04 | 2.9 | 0.1  | 3   | 90 | 0.6  | 2.46  | 4.4  | 153 | RANCHO TERESITA DAIRY      | CA   |
| 1,509 FOREST GLEN IMPULS JUDI            | 067354473       | 3K |     | 4473  | 1   | 66  | 931   | 0.07  | 57  | 0.02  | 39   | 425  | 389  | 374  | 3.20 | 3.3 | 0.4  | 0   | 71 | 0.8  | 0.39  | 5.6  | 153 | DIAMOND VALLEY DAIRY       | OR   |
| 1,510 PR VALSIGNA ARON 17136             | 117551242       | 3K |     | 17136 | 1   | 69  | 1,673 | -0.19 | 39  | -0.11 | 38   | 271  | 319  | 374  | 3.09 | 2.3 | -0.2 | 1   | 77 | 1.6  | 3.43  | 6.8  | 153 | WICKSTROM DAIRIES, LP      | CA   |
| 1,511 DRB HONOR RUMOR                    | 067146746       | 8K | F   | 6746  | 1   | 67  | 1,351 | -0.01 | 60  | -0.05 | 38   | 389  | 396  | 413  | 3.05 | 2.5 | -0.4 | 0   | 75 | 1.3  | 1.14  | 5.7  | 153 | BAKER, DOROTHEA RILEY      | NY   |
| 1,512 HILMAR TBONE 17866                 | 067217866       | 3K |     | 17866 | 4   | 75  | 599   | 0.16  | 59  | 0.09  | 38   | 452  | 363  | 291  | 2.95 | 1.3 | -0.2 | 3   | 85 | 1.3  | 1.59  | 9.0  | 153 | AHLEM, CHARLES             | CA   |
| 1,513 HILMAR IMPULS 29568                | 067329568       | 3K |     | 29568 | 1   | 66  | 448   | 0.21  | 60  | 0.11  | 38   | 487  | 389  | 314  | 3.09 | 2.9 | -0.5 | 2   | 84 | 0.9  | 1.32  | 5.8  | 153 | AHLEM, CHARLES             | CA   |
| 1,514 GR BIG TIME GANNON MILEY           | 117129953       | 8K | F   | 315   | 2   | 71  | 1,360 | -0.07 | 47  | -0.06 | 37   | 329  | 343  | 366  | 3.06 | 2.6 | -0.1 | 2   | 90 | 1.2  | 3.26  | 5.6  | 153 | LINEHAN, PHILLIP           | WI   |
| 1,515 FLEURYS MAPLE BLADE MACHETE        | 840003007362460 | 8K | F   | 533   | 1   | 68  | 1,251 | -0.07 | 45  | -0.04 | 37   | 402  | 390  | 381  | 2.85 | 3.3 | 0.2  | 0   | 85 | 0.5  | 1.00  | 5.9  | 153 | FLEURY STEPHEN & ELIZABETH | VT   |
| 1,516 HILMAR BENEFACTOR 25642            | 067325642       | 3K |     | 25642 | 1   | 70  | 1,107 | -0.05 | 43  | -0.01 | 37   | 415  | 387  | 364  | 2.86 | 2.8 | -0.2 | 2   | 77 | 1.0  | 1.74  | 7.5  | 153 | AHLEM, CHARLES             | CA   |
| 1,517 PR FARIA BROTHERS MAXIMUM 43507    | 840003003741094 | 6K | F   | 43507 | 4   | 68  | 1,055 | 0.15  | 77  | 0.00  | 37   | 451  | 423  | 405  | 2.98 | 2.1 | 0.2  | 0   | 85 | 0.4  | -0.43 | 4.2  | 153 | FARIA BROS DAIRIES         | TX   |
| 1,518 GR CAL-MART DALE KAMEELA 2678      | 116605621       | 3K |     | 128   | 2   | 70  | 853   | 0.02  | 43  | 0.03  | 37   | 459  | 408  | 370  | 2.97 | 4.1 | 0.9  | 1   | 73 | 0.3  | 0.21  | 3.9  | 153 | MARTIN DAIRY LLC           | OR   |
| 1,519 JARS OF CLAY IMPULS KITTY          | 067333045       | 8K | F   | 3045  | 2   | 69  | 383   | 0.20  | 56  | 0.13  | 37   | 508  | 402  | 319  | 3.04 | 2.9 | 0.3  | 2   | 84 | 0.4  | 0.76  | 5.0  | 153 | RANCHO TERESITA DAIRY      | CA   |
| 1,520 LAST CHANCE ABES OLYMPIA           | 067242128       | 3K |     | 197   | 1   | 63  | 1,169 | 0.01  | 55  | -0.03 | 36   | 354  | 345  | 346  | 3.01 | 2.2 | 0.0  | 1   | 85 | 0.3  | 2.56  | 4.2  | 153 | WINTER BOB & DARLENE       | WI   |
| 1,521 FOREST GLEN IMPULS JULY            | 067262063       | 3K |     | 2063  | 2   | 70  | 707   | 0.01  | 34  | 0.06  | 36   | 438  | 387  | 360  | 3.24 | 4.3 | 0.5  | 2   | 81 | 0.8  | 1.92  | 6.0  | 153 | BANSEN, DAN K              | OR   |
| 1,522 WILSONVIEW JEONVON NICKI           | 067191446       | 8K | C   | 1446  | 3   | 74  | 1,135 | 0.03  | 59  | -0.03 | 35   | 434  | 417  | 400  | 2.79 | 2.6 | -0.3 | 0   | 85 | 0.7  | 1.27  | 8.5  | 153 | WILSONVIEW DAIRY           | OR   |
| 1,523 CMR TBONE SANDY                    | 117385810       | 3K |     | 59    | 1   | 72  | 628   | 0.10  | 50  | 0.06  | 35   | 427  | 355  | 293  | 2.89 | 1.4 | -0.5 | 1   | 87 | 1.9  | 2.74  | 10.3 | 153 | BOER, GERRET               | TX   |
| 1,524 MILLS IMPULS DILLY                 | 114351106       | 3K |     | 6070  | 5   | 72  | 999   | 0.02  | 51  | 0.00  | 34   | 502  | 468  | 434  | 2.75 | 4.4 | 0.2  | 2   | 88 | 0.3  | -0.43 | 5.1  | 153 | MILLS JERSEY FARM LLC      | NV   |
| 1,525 AHLEM TBONE MYSTY 35093            | 069042299       | 8K | F   | 35093 | 2   | 73  | 686   | 0.05  | 43  | 0.05  | 34   | 388  | 324  | 271  | 2.91 | 1.3 | -0.6 | 1   | 86 | 2.1  | 4.55  | 11.5 | 153 | AHLEM, WILLIAM JR          | CA   |
| 1,526 HILMAR LEGAL 33813                 | 067433813       | 6K | C   | 33813 | 1   | 69  | 588   | 0.06  | 38  | 0.08  | 34   | 472  | 394  | 325  | 2.86 | 3.3 | 0.0  | 0   | 79 | 1.4  | 3.15  | 6.7  | 153 | AHLEM, CHARLES             | CA   |
| 1,527 SIL-MIST FANATIC DANIELLE KIMMIE   | 067222535       | 6K | F   | 2535  | 1   | 72  | 1,201 | -0.11 | 35  | -0.05 | 33   | 360  | 361  | 360  | 2.81 | 2.9 | -0.3 | 0   |    | 1.6  | 4.13  | 8.4  | 153 | THOMAS, TERESA             | OR   |
| 1,528 CAL-MART HEADLINE FELLCIA 3637     | 117265013       | 3K |     | 3637  | 1   | 69  | 1,038 | -0.01 | 44  | -0.02 | 33   | 451  | 434  | 423  | 2.91 | 5.1 | -0.5 | 0   |    | 1.2  | 1.28  | 6.6  | 153 | MARTIN DAIRY LLC           | OR   |
| 1,529 GR JARS OF CLAY LEGION 1833 2547   | 067112547       | 3K |     | 2547  | 4   | 74  | 990   | 0.04  | 54  | -0.01 | 33   | 393  | 379  | 377  | 3.07 | 3.2 | 0.0  | 3   | 88 | 1.6  | 3.17  | 7.3  | 153 | RANCHO TERESITA DAIRY      | CA   |
| 1,530 WILSONVIEW IMPULS LEXIE            | 067191388       | 3K |     | 1388  | 3   | 70  | 819   | 0.03  | 43  | 0.02  | 33   | 417  | 384  | 364  | 3.05 | 3.3 | 0.4  | 2   | 90 | 1.1  | 2.83  | 4.0  | 153 | WILSONVIEW DAIRY           | OR   |
| 1,531 SUNWEST ABE KLASSIC M24861         | 840003005688313 | 3K |     | 24861 | 3   | 73  | 782   | 0.13  | 61  | 0.03  | 33   | 546  | 493  | 446  | 2.81 | 4.5 | 0.5  | 2   | 77 | 0.0  | -1.86 | 5.9  | 153 | SUNWEST JERSEY DAIRY       | CA   |
| 1,532 VALSIGNA SPARKY 17214              | 117551943       | 3K |     | 17214 | 1   | 69  | 714   | 0.04  | 40  | 0.05  | 33   | 393  | 342  | 303  | 2.99 | 2.4 | 0.3  | 1   | 73 | 0.7  | 2.83  | 7.8  | 153 | WICKSTROM DAIRIES, LP      | CA   |
| 1,533 HI-LAND MILITIA FILE               | 067136050       | 3K |     | 6050  | 3   | 72  | 690   | 0.09  | 49  | 0.04  | 33   | 467  | 423  | 398  | 3.17 | 4.2 | 1.4  | 3   | 84 | 0.3  | 0.22  | 6.5  | 153 | CHAMBERLAIN GREG & DAVID   | NY   |
| 1,534 WICKS PLUS 4136                    | 067304136       | 3K |     | 4136  | 1   | 67  | 596   | 0.06  | 38  | 0.06  | 32   | 416  | 356  | 311  | 3.03 | 2.3 | 0.3  | 0   |    | 1.9  | 4.55  | 6.8  | 153 | WICKSTROM BROS             | CA   |
| 1,535 AHLEM COUNTRY CHARM 16582          | 062612802       | 3K |     | 16582 | 5   | 74  | 954   | -0.15 | 15  | -0.01 | 31   | 413  | 397  | 389  | 2.96 | 4.7 | 1.2  | 2   | 90 | 1.3  | 2.10  | 8.1  | 153 | AHLEM, WILLIAM JR          | CA   |
| 1,536 NORSE STAR PLUS N3314              | 067223314       | 3K |     | 3314  | 1   | 69  | 947   | -0.07 | 30  | -0.01 | 31   | 365  | 339  | 314  | 2.80 | 1.8 | 0.1  | 1   | 83 | 1.7  | 4.78  | 7.7  | 153 | FRITZ, KEVIN               | WI   |
| 1,537 CAL-MART HEADLINE LAVENA 3592      | 117242780       | 3K |     | 3592  | 2   | 71  | 1,161 | -0.10 | 32  | -0.06 | 30   | 430  | 443  | 461  | 2.98 | 5.6 | 1.2  | 1   | 82 | 0.8  | 0.99  | 8.5  | 153 | MARTIN DAIRY LLC           | OR   |
| 1,538 SUN VALLEY JUPITER LAVIELLE        | 117018107       | 6K | F   | 2445  | 2   | 72  | 837   | 0.04  | 47  | 0.00  | 30   | 446  | 424  | 412  | 3.03 | 3.9 | 1.4  | 2   | 87 | 1.0  | 1.40  | 7.0  | 153 | SUN VALLEY FARM            | OR   |
| 1,539 CAL-MART MAXIMUM DORY 2755         | 116688134       | 3K |     | 76    | 3   | 72  | 534   | 0.25  | 71  | 0.05  | 30   | 514  | 449  | 395  | 2.90 | 3.6 | -0.8 | 2   | 81 | 0.8  | 1.55  | 6.9  | 153 | MARTIN DAIRY LLC           | OR   |
| 1,540 AHLEM LEGAL LILY 36244             | 070047718       | 3K |     | 36244 | 1   | 68  | 772   | 0.03  | 40  | 0.01  | 29   | 365  | 341  | 331  | 3.09 | 2.9 | 0.4  | 1   | 74 | 2.1  | 5.85  | 7.1  | 153 | AHLEM, WILLIAM JR          | CA   |
| 1,541 PEARLMONT RENEGADE DEMI-ET         | 067139404       | 3K |     | 404   | 1   | 68  | 496   | 0.16  | 53  | 0.06  | 29   | 502  | 439  | 386  | 2.91 | 3.9 | 0.3  | 1   | 83 | 1.4  | 1.68  | 7.5  | 153 | PEARL, WILLIAM H           | VT   |
| 1,542 AHLEM SENTRY WANDA 36996           | 070048470       | 8K | F   | 36996 | 1   | 72  | 689   | 0.03  | 38  | 0.02  | 28   | 447  | 410  | 382  | 2.93 | 3.9 | -0.3 | 1   | 77 | 1.8  | 4.74  | 11.2 | 153 | AHLEM, WILLIAM JR          | CA   |
| 1,543 VERJATIN RANDOM LIZETTE-ET         | 106109832       | 3K |     | 9832  | 0   | 61  | 562   | 0.13  | 50  | 0.04  | 27   | 402  | 361  | 334  | 3.06 | 2.7 | 0.7  | 1   | 83 | 1.3  | 5.26  | 6.5  | 153 | MULTI ROSE JERSEYS INC     | IA   |
| 1,544 HILMAR TBONE 18923                 | 067218923       | 3K |     | 18923 | 4   | 74  | 400   | 0.20  | 55  | 0.07  | 27   | 444  | 384  | 340  | 3.07 | 3.0 | -0.2 | 2   | 88 | 1.5  | 4.40  | 9.0  | 153 | AHLEM, CHARLES             | CA   |
| 1,545 WESTWICK KANOO 17750               | 117724318       | 3K |     | 17750 | 1   | 66  | 552   | 0.07  | 38  | 0.03  | 26   | 445  | 408  | 384  | 3.09 | 4.7 | 0.8  | 0   | 76 | 0.8  | 3.13  | 4.6  | 153 | WICKSTROM, VERNON          | CA   |
| 1,546 FOREST GLEN IATOLA ALISON          | 067129401       | 3K |     | 9401  | 4   | 74  | 828   | -0.03 | 32  | -0.02 | 25   | 355  | 349  | 346  | 2.94 | 2.6 | 0.2  | 2   | 89 | 2.3  | 6.49  | 9.0  | 153 | BANSEN, DAN K              | OR   |
| 1,547 JCY TUESDAY 16896                  | 115719123       | 6K | F   | 16896 | 4   | 76  | 656   | 0.02  | 33  | 0.02  | 25   | 462  | 437  | 422  | 3.02 | 4.5 | 1.5  | 2   | 88 | 1.4  | 2.76  | 7.8  | 153 | AHLEM BROTHERS             | CA   |
| 1,548 LUCKY HILL LEGAL JOLIE-ET          | 117736193       | 3K |     | 892   | 1   | 69  | 1,021 | -0.15 | 18  | -0.06 | 24   | 410  | 423  | 430  | 2.77 | 5.4 | 0.6  | 0   | 84 | 1.3  | 4.62  | 7.5  | 153 | LUCKY HILL FARM            | VT   |
| 1,549 SMJ LEGAL PATRICE                  | 067361307       | 3K |     | 1307  | 1   | 69  | 726   | -0.03 | 26  | 0.00  | 24   | 435  | 417  | 403  | 2.91 | 4.9 | 0.6  | 1   | 85 | 2.0  | 5.45  | 6.8  | 153 | SILVER MAPLE FARMS INC     | ME   |
| 1,550 CAL-MART ZUMA CANDI 5293           | 067245293       | 6K | F   | 5293  | 1   | 68  | 481   | 0.04  | 30  | 0.04  | 24   | 456  | 405  | 355  | 2.79 | 4.4 | 0.7  | 0   | 84 | 0.9  | 3.29  | 6.3  | 153 | MARTIN DAIRY LLC           | OR   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                      | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      |      | ----- TYPE ----- |      |      |     |    |      |       | Owner | ST  |   |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------|------------------|------|------|-----|----|------|-------|-------|-----|---|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS              | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                                       | GJPI |
| 1,551 AHLEM HEADLINE MARCIA 118           | 070047092       | 8K  | F   | 118              | 1   | 71  | 873   | -0.04 | 31  | -0.04 | 23   | 412  | 416  | 419  | 2.86             | 4.6  | 0.6  | 0   | 75 | 1.8  | 4.60  | 8.3   | 153 | AHLEM, WILLIAM JR                         | CA   |
| 1,552 BW BLACKSTONE NANCY ET586-ET        | 116249720       | 50K | C   | 1117             | 2   | 76  | 580   | 0.12  | 50  | 0.01  | 23   | 385  | 365  | 354  | 3.05             | 2.3  | 0.3  | 3   | 91 | 2.7  | 6.16  | 8.3   | 153 | BRENTWOOD FARMS, RIVER VALLEY, SAUDER BEN | IL   |
| 1,553 AHLEM LEGAL CHARM 35585             | 069042791       | 8K  | F   | 35585            | 1   | 72  | 463   | 0.09  | 37  | 0.04  | 23   | 442  | 399  | 362  | 2.93             | 3.7  | 1.2  | 1   | 87 | 1.9  | 5.38  | 7.9   | 153 | AHLEM, WILLIAM JR                         | CA   |
| 1,554 VALSIGNA SPARKY 18446               | 117777053       | 6K  | F   | 18446            | 0   | 67  | 474   | 0.07  | 34  | 0.02  | 22   | 477  | 433  | 391  | 2.82             | 4.3  | 1.1  | 0   | 77 | 1.0  | 3.21  | 9.5   | 153 | WICKSTROM DAIRIES, LP                     | CA   |
| 1,555 AHLEM ACTION VETTE 33188            | 066622621       | 3K  |     | 33188            | 1   | 71  | 449   | 0.04  | 29  | 0.03  | 22   | 417  | 371  | 329  | 2.85             | 3.7  | 0.2  | 2   | 88 | 2.5  | 6.99  | 10.8  | 153 | AHLEM, WILLIAM JR                         | CA   |
| 1,556 WILSONVIEW VITO JAIME               | 117378768       | 8K  | F   | 1765             | 1   | 73  | 1,969 | -0.28 | 36  | -0.03 | 64   | 265  | 243  | 240  | 3.07             | 0.0  | -2.1 | 0   | 76 | 0.9  | -1.09 | 8.7   | 152 | WILSONVIEW DAIRY                          | OR   |
| 1,557 GR AVI-LANCHE VIRGIL ALDINE 5303    | 067375303       | 8K  | F   | 5303             | 1   | 55  | 2,288 | -0.27 | 52  | -0.12 | 57   | 178  | 236  | 313  | 3.33             | -0.6 | -1.1 | 1   | 78 | 0.8  | 1.24  | 0.5   | 152 | AVILA RICHARD & JENNIFER M                | TX   |
| 1,558 GR MILK-N-MORE-LH LOUIE GEMSTONE-ET | 117077612       | 3K  |     | 10024            | 1   | 67  | 1,751 | -0.13 | 55  | -0.07 | 48   | 342  | 355  | 377  | 3.02             | 2.4  | -0.6 | 1   | 73 | 0.4  | -0.68 | 4.3   | 152 | HEINZ LLOYD & WUSSOW RON                  | WI   |
| 1,559 GR GLEN MEADOWS LIAM SOPHIA         | 067094650       | 8K  | C   | 4650             | 2   | 70  | 1,478 | -0.17 | 35  | -0.03 | 48   | 353  | 334  | 329  | 3.02             | 2.0  | 0.0  | 2   | 82 | 0.5  | 0.02  | 3.7   | 152 | GLEN MEADOWS FARM                         | NY   |
| 1,560 GABYS VALENTINO ANNALISA-ET         | 117245680       | 50K | C   | 1860             | 1   | 72  | 1,356 | -0.08 | 47  | -0.01 | 46   | 300  | 281  | 280  | 3.13             | 1.0  | -2.2 | 1   | 87 | 2.0  | 3.73  | 7.3   | 152 | GABY, HENRY                               | TN   |
| 1,561 HEARTLAND KYROS LILLY               | 067262461       | 8K  | F   | 32461            | 1   | 70  | 1,396 | -0.05 | 55  | -0.03 | 45   | 328  | 314  | 313  | 3.04             | 0.9  | -1.1 | 0   | 84 | 1.7  | 2.30  | 7.4   | 152 | D & E JERSEYS                             | TX   |
| 1,562 GR BUTTERCREST GANNON SILVER        | 117429183       | 3K  |     | 474              | 1   | 70  | 1,561 | -0.06 | 60  | -0.07 | 42   | 310  | 319  | 335  | 2.94             | 0.3  | -0.2 | 1   | 74 | 1.4  | 1.85  | 6.9   | 152 | COOPERRIDER & SONS                        | OH   |
| 1,563 GR FARIA BROTHERS VALENTINO 93135   | 840003008537503 | 6K  | C   | 93135            | 1   | 73  | 1,403 | -0.16 | 35  | -0.04 | 42   | 300  | 300  | 311  | 3.04             | 2.1  | -1.3 | 1   | 76 | 1.5  | 3.85  | 8.0   | 152 | FARIA BROS DAIRIES                        | TX   |
| 1,564 GR OOMSDALE TBONE GRACE GEORGINA-ET | 067080484       | 50K | F   | 484              | 2   | 71  | 899   | 0.10  | 58  | 0.05  | 42   | 353  | 294  | 255  | 3.08             | 0.4  | -0.8 | 2   | 87 | 1.7  | 3.12  | 5.5   | 152 | SEALS DAVID & KIMBERLY                    | OR   |
| 1,565 FARIA BROTHERS PLUS 92567           | 840003008536935 | 6K  | F   | 92567            | 1   | 65  | 1,506 | -0.04 | 60  | -0.06 | 41   | 358  | 371  | 393  | 3.03             | 1.6  | -0.2 | 1   | 81 | 0.9  | 0.23  | 3.6   | 152 | FARIA BROS DAIRIES                        | TX   |
| 1,566 HEARTLAND MATINEE NERINE            | 067061755       | 6K  | F   | 1755             | 3   | 74  | 1,152 | 0.16  | 80  | -0.01 | 39   | 437  | 409  | 388  | 2.90             | 1.0  | -0.6 | 2   | 86 | 1.0  | 0.60  | 6.7   | 152 | HEARTLAND JERSEYS                         | KS   |
| 1,567 GR FARIA BROTHERS MAXIMUM MCCANTS   | 840003001577671 | 3K  |     | 27464            | 3   | 60  | 1,071 | 0.14  | 75  | 0.01  | 39   | 420  | 387  | 366  | 2.99             | 1.5  | -0.6 | 2   | 84 | 1.0  | 0.80  | -0.5  | 152 | FARIA BROS DAIRIES                        | TX   |
| 1,568 SUNBOW I. LOUIE SULTANA             | 117597723       | 3K  |     | 304              | 1   | 68  | 1,204 | 0.05  | 63  | -0.02 | 38   | 404  | 390  | 382  | 2.92             | 2.5  | -0.2 | 1   | 84 | 0.9  | 0.72  | 7.8   | 152 | SUNBOW JERSEYS                            | TN   |
| 1,569 JCJ BRAZO 14939                     | 115267103       | 3K  |     | 14939            | 4   | 76  | 1,345 | -0.23 | 18  | -0.06 | 37   | 358  | 368  | 384  | 3.00             | 3.7  | 1.2  | 2   | 86 | 0.6  | 1.04  | 8.9   | 152 | AHLEM BROTHERS                            | CA   |
| 1,570 PR FARIA BROTHERS REBEL 41855       | 840003003959891 | 6K  | F   | 41855            | 4   | 72  | 1,310 | -0.05 | 50  | -0.05 | 37   | 401  | 388  | 371  | 2.69             | 2.2  | -0.4 | 0   | 84 | -0.3 | 0.93  | 4.2   | 152 | FARIA BROS DAIRIES                        | TX   |
| 1,571 CLOVER PATCH HEADLINE PICA          | 117305805       | 3K  |     | 1963             | 2   | 71  | 1,062 | -0.09 | 33  | -0.02 | 36   | 412  | 389  | 373  | 2.94             | 4.3  | 0.3  | 1   | 63 | 0.5  | 0.95  | 8.8   | 152 | KOZAK, ALAN                               | OH   |
| 1,572 BW BLACKSTONE ROXANNE S342          | 116339236       | 3K  |     | 1528             | 3   | 74  | 908   | 0.02  | 46  | 0.01  | 36   | 389  | 343  | 304  | 2.87             | 1.8  | -0.1 | 2   | 83 | 1.2  | 3.35  | 6.8   | 152 | BRENTWOOD FARMS                           | CA   |
| 1,573 CAL-MART HEADLINE LORANN 3485       | 117164602       | 8K  | F   | 3485             | 2   | 74  | 1,319 | -0.09 | 43  | -0.06 | 35   | 348  | 361  | 378  | 2.96             | 3.1  | -0.1 | 1   | 83 | 1.4  | 3.20  | 8.8   | 152 | MARTIN DAIRY LLC                          | OR   |
| 1,574 AHLEM LEGAL ROSANNA 35838           | 069043044       | 3K  |     | 35838            | 1   | 68  | 1,152 | -0.11 | 31  | -0.03 | 35   | 360  | 355  | 359  | 3.03             | 3.4  | 0.2  | 1   | 81 | 1.9  | 3.61  | 7.6   | 152 | AHLEM, WILLIAM JR                         | CA   |
| 1,575 RIALS TBONE VICTORIA 2016           | 117178201       | 3K  |     | 2016             | 1   | 69  | 1,033 | 0.03  | 53  | -0.01 | 35   | 349  | 330  | 322  | 3.00             | 1.7  | -0.9 | 0   | 90 | 2.2  | 3.91  | 10.2  | 152 | RIALS FARM                                | MS   |
| 1,576 DUPAT LEGAL 8888                    | 067148888       | 3K  |     | 8888             | 0   | 62  | 951   | -0.05 | 35  | 0.00  | 35   | 367  | 335  | 312  | 2.94             | 2.3  | -0.1 | 0   | 73 | 1.9  | 4.32  | 6.9   | 152 | WICKSTROM JERSEY FARMS INC                | CA   |
| 1,577 GR FARIA BROTHERS VALENTINO 101830  | 840003008535198 | 3K  |     | 101830           | 1   | 68  | 913   | 0.05  | 52  | 0.02  | 35   | 361  | 333  | 320  | 3.10             | 1.8  | -0.2 | 0   | 2  | 2.0  | 4.09  | 7.5   | 152 | FARIA DAIRY                               | AZ   |
| 1,578 FARIA BROTHERS VALENTINO 101878     | 840003008535246 | 3K  |     | 101878           | 1   | 69  | 896   | 0.03  | 47  | 0.02  | 35   | 403  | 365  | 337  | 2.96             | 2.7  | -0.5 | 1   | 82 | 1.3  | 2.95  | 8.4   | 152 | FARIA DAIRY                               | AZ   |
| 1,579 AHLEM IMPULS BELLA 31635            | 066069019       | 3K  |     | 31635            | 3   | 71  | 691   | 0.04  | 39  | 0.05  | 35   | 469  | 411  | 369  | 3.02             | 3.8  | 2.0  | 2   | 79 | 0.6  | -0.20 | 6.2   | 152 | AHLEM, WILLIAM JR                         | CA   |
| 1,580 OHIO LEGAL JACINTO 4553             | 117351187       | 8K  | C   | 4553             | 1   | 71  | 636   | 0.06  | 40  | 0.06  | 35   | 442  | 380  | 337  | 3.11             | 3.7  | 0.9  | 1   | 83 | 1.5  | 2.41  | 7.7   | 152 | OHIO STATE UNIVERSITY                     | OH   |
| 1,581 CAL-MART HEADLINE ARDITH 5279       | 067245279       | 6K  | F   | 5279             | 1   | 70  | 1,084 | -0.01 | 48  | -0.02 | 34   | 387  | 385  | 397  | 3.12             | 3.7  | 1.0  | 0   | 68 | 0.8  | 1.59  | 7.2   | 152 | MARTIN DAIRY LLC                          | OR   |
| 1,582 PR FARIA BROTHERS MAXIMUM 16738     | 840003001574683 | 6K  | F   | 16738            | 4   | 62  | 998   | 0.06  | 58  | -0.01 | 34   | 364  | 345  | 335  | 3.00             | 1.2  | 0.3  | 0   | 90 | 1.0  | 3.39  | 2.0   | 152 | FARIA DAIRY                               | AZ   |
| 1,583 AHLEM LEGAL BENITA 35873            | 069043079       | 8K  | F   | 35873            | 1   | 71  | 947   | 0.00  | 44  | 0.00  | 34   | 416  | 384  | 360  | 2.92             | 3.2  | 0.4  | 1   | 85 | 1.2  | 2.18  | 7.1   | 152 | AHLEM, WILLIAM JR                         | CA   |
| 1,584 GR AVI-LANCHE GANNON OCTOBER 21557  | 067521557       | 3K  |     | 21557            | 2   | 71  | 882   | 0.09  | 58  | 0.01  | 34   | 444  | 398  | 355  | 2.79             | 2.9  | -0.7 | 2   | 85 | 0.8  | 1.80  | 6.0   | 152 | AVILA RICHARD & JENNIFER M                | TX   |
| 1,585 DEN-KEL JUMBLE-ET                   | 067138838       | 8K  | F   | 838              | 1   | 70  | 775   | 0.06  | 48  | 0.04  | 34   | 449  | 396  | 349  | 2.85             | 2.8  | 0.4  | 0   | 86 | 0.9  | 1.69  | 6.9   | 152 | KELLER, KIP A                             | NY   |
| 1,586 TOLLENAAR LOTTO 6802                | 840003007843822 | 3K  |     | 6802             | 0   | 61  | 753   | 0.16  | 63  | 0.04  | 34   | 487  | 428  | 376  | 2.82             | 2.9  | 0.7  | 1   | 66 | 0.3  | 0.08  | 7.8   | 152 | TOLLENAAR JERSEYS                         | CA   |
| 1,587 GR WILSONVIEW GARDEN SPICE-ET       | 067191498       | 3K  |     | 1498             | 3   | 71  | 567   | 0.14  | 50  | 0.08  | 34   | 471  | 403  | 355  | 3.10             | 4.2  | 0.3  | 2   | 82 | 1.1  | 2.14  | 4.1   | 152 | WILSONVIEW DAIRY                          | OR   |
| 1,588 DC IMPULS RAE                       | 067117520       | 3K  |     | 520              | 2   | 70  | 339   | 0.19  | 50  | 0.11  | 34   | 494  | 392  | 306  | 2.92             | 2.9  | 0.6  | 1   | 84 | 0.8  | 1.16  | 6.8   | 152 | SEALS THOMAS L & JENNIE L                 | OR   |
| 1,589 GR JARS OF CLAY IATOLA 2360 2749    | 067142749       | 3K  |     | 2749             | 3   | 71  | 1,153 | 0.06  | 64  | -0.05 | 33   | 351  | 355  | 368  | 3.05             | 0.9  | -0.4 | 3   | 88 | 2.0  | 3.77  | 5.8   | 152 | RANCHO TERESITA DAIRY                     | CA   |
| 1,590 DUPAT LEGAL 8299-ET                 | 067348299       | 3K  |     | 8417             | 1   | 69  | 1,126 | -0.06 | 40  | -0.04 | 33   | 398  | 394  | 393  | 2.90             | 3.6  | 0.1  | 1   | 79 | 1.4  | 2.92  | 6.3   | 152 | WICKSTROM JERSEY FARMS INC                | CA   |
| 1,591 VALSIGNA SPARKY 17355               | 117553310       | 3K  |     | 17355            | 1   | 69  | 1,111 | -0.07 | 39  | -0.04 | 33   | 339  | 336  | 340  | 2.97             | 2.5  | 0.1  | 0   | 74 | 1.2  | 3.22  | 8.0   | 152 | WICKSTROM DAIRIES, LP                     | CA   |
| 1,592 AHLEM LEGAL MELODY 35861            | 069043067       | 8K  | C   | 35861            | 1   | 71  | 1,061 | -0.06 | 37  | -0.02 | 33   | 352  | 344  | 346  | 3.03             | 2.8  | 1.0  | 1   | 79 | 1.7  | 4.01  | 7.9   | 152 | AHLEM, WILLIAM JR                         | CA   |
| 1,593 HEARTLAND ABE AUSTIN                | 067282064       | 8K  | F   | 471              | 2   | 70  | 696   | 0.20  | 68  | 0.04  | 33   | 463  | 403  | 353  | 2.88             | 2.2  | -1.4 | 2   | 85 | 0.7  | 1.85  | 5.4   | 152 | D & D JERSEYS                             | WI   |
| 1,594 AHLEM HEADLINE MOONLITE 36201       | 070047675       | 8K  | F   | 36201            | 1   | 72  | 1,436 | -0.22 | 22  | -0.10 | 32   | 315  | 352  | 389  | 2.93             | 4.3  | -0.4 | 1   | 84 | 2.0  | 4.70  | 9.2   | 152 | AHLEM, WILLIAM JR                         | CA   |
| 1,595 DUPAT LOUIE 7769                    | 067297769       | 3K  |     | 7769             | 2   | 72  | 1,175 | -0.08 | 39  | -0.05 | 32   | 415  | 416  | 418  | 2.87             | 3.5  | 1.3  | 1   | 76 | 0.1  | 1.21  | 6.0   | 152 | WICKSTROM JERSEY FARMS INC                | CA   |
| 1,596 GR FARIA BROTHERS VERMEER 86942     | 840003004632581 | 3K  |     | 86942            | 1   | 67  | 921   | 0.16  | 72  | 0.00  | 32   | 425  | 404  | 394  | 3.04             | 2.4  | 0.1  | 0   | 0  | 0.9  | 2.00  | 5.3   | 152 | FARIA BROS DAIRIES                        | TX   |
| 1,597 CLOVER PATCH LEGAL CHERRY           | 117674583       | 8K  | F   | 2070             | 1   | 70  | 833   | 0.00  | 39  | 0.02  | 32   | 378  | 350  | 336  | 3.07             | 2.9  | -0.1 | 0   | 82 | 2.2  | 5.14  | 8.3   | 152 | KOZAK, ALAN                               | OH   |
| 1,598 YOSEMITE SHAH ACE N22121            | 840003004598774 | 3K  |     | 22121            | 1   | 67  | 745   | 0.05  | 43  | 0.02  | 32   | 448  | 408  | 380  | 3.01             | 4.2  | 0.9  | 2   | 78 | 0.2  | 1.08  | 5.5   | 152 | YOSEMITE JERSEY DAIRY                     | CA   |
| 1,599 BUTTERCREST ARTIST PRIM             | 117275467       | 3K  |     | 457              | 1   | 70  | 574   | 0.12  | 47  | 0.06  | 31   | 454  | 388  | 332  | 2.88             | 2.4  | 0.5  | 1   | 77 | 0.5  | 1.76  | 7.3   | 152 | COOPERRIDER & SONS                        | OH   |
| 1,600 GRAZELAND OHIO KARL IMPULS 4538     | 117222469       | 3K  |     | 4538             | 1   | 67  | 738   | 0.11  | 54  | 0.02  | 30   | 461  | 422  | 390  | 2.90             | 3.0  | 0.4  | 2   | 83 | 0.8  | 1.57  | 5.8   | 152 | OHIO STATE UNIVERSITY                     | OH   |



## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |      |      |     |     |      | Owner | ST   |                       |                             |      |
|--|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|------|------|-----|-----|------|-------|------|-----------------------|-----------------------------|------|
|  |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL   | DPR  | Rec | FS  | PTAT |       |      | JUI                   | GFI                         | GJPI |
| 1.601 VALSIGNA SPARKY 17853              | 117725319       | 3K  |     | 17853            | 1   | 69  | 718   | 0.06  | 45  | 0.02  | 30   | 354  | 321  | 299              | 3.04 | 1.9  | -0.5 | 0   | 1.9 | 5.48 | 9.9   | 152  | WICKSTROM DAIRIES, LP | CA                          |      |
| 1.602 WILSONVIEW N MCKENNA-ET            | 116897987       | 3K  |     | 1620             | 2   | 71  | 593   | 0.14  | 52  | 0.03  | 28   | 450  | 413  | 392              | 3.11 | 4.2  | 1.0  | 2   | 90  | 1.4  | 2.27  | 6.6  | 152                   | WILSONVIEW DAIRY            | OR   |
| 1.603 AVON ROAD PLUS KAREN               | 067106634       | 3K  |     | 634              | 1   | 69  | 798   | 0.03  | 42  | -0.01 | 27   | 413  | 395  | 383              | 2.93 | 3.1  | 0.9  | 1   | 84  | 1.2  | 3.71  | 7.8  | 152                   | STRANDBERG D L & HOYT       | WI   |
| 1.604 AHLEM LEGAL LARA 35559             | 069042765       | 8K  | F   | 35559            | 1   | 71  | 530   | 0.00  | 24  | 0.05  | 27   | 439  | 383  | 332              | 2.81 | 3.4  | 1.1  | 1   | 83  | 1.7  | 4.37  | 7.3  | 152                   | AHLEM, WILLIAM JR           | CA   |
| 1.605 BW RENEGADE ROSA U674              | 117218226       | 6K  | F   | 214              | 1   | 71  | 364   | 0.21  | 57  | 0.07  | 27   | 500  | 427  | 363              | 2.88 | 3.6  | 0.5  | 1   | 83  | 1.3  | 2.63  | 6.2  | 152                   | BRENTWOOD FARMS             | CA   |
| 1.606 LUCKY HILL RENEGADE CHANELLE       | 117390661       | 3K  |     | 67               | 1   | 68  | 363   | 0.22  | 58  | 0.07  | 27   | 460  | 395  | 347              | 3.07 | 3.4  | 0.4  | 1   | 77  | 1.8  | 3.93  | 6.8  | 152                   | LUCKY HILL FARM             | VT   |
| 1.607 BIG TIME IMPULS MEG-ET             | 116238179       | 8K  | C   | 346              | 3   | 71  | 214   | 0.15  | 39  | 0.10  | 27   | 489  | 400  | 323              | 2.90 | 3.3  | 1.2  | 0   | 87  | 0.8  | 3.04  | 4.4  | 152                   | LINEHAN, PHILLIP            | WI   |
| 1.608 AHLEM HEADLINE SEQUOIA 37551       | 070049025       | 6K  | F   | 37551            | 1   | 71  | 933   | -0.06 | 32  | -0.04 | 26   | 358  | 360  | 366              | 2.96 | 3.7  | 0.0  | 0   | 83  | 2.1  | 5.24  | 9.5  | 152                   | AHLEM, WILLIAM JR           | CA   |
| 1.609 SCHIRM LEGAL WHITLEY               | 067291315       | 8K  | C   | 1315             | 2   | 72  | 791   | -0.04 | 30  | -0.01 | 26   | 411  | 395  | 385              | 2.95 | 4.4  | 1.1  | 2   | 90  | 1.5  | 4.20  | 7.1  | 152                   | SCHIRM PAUL & DAWN & FAMILY | OH   |
| 1.610 JARS OF CLAY TBONE KENDRA          | 067333043       | 3K  |     | 3043             | 1   | 70  | 373   | 0.20  | 54  | 0.07  | 26   | 418  | 350  | 293              | 2.93 | 1.6  | 0.2  | 1   | 90  | 2.3  | 5.46  | 8.8  | 152                   | RANCHO TERESITA DAIRY       | CA   |
| 1.611 HAWARDEN PREMIER ABBY TWO          | 067125613       | 3K  |     | 613              | 1   | 63  | -67   | 0.26  | 44  | 0.15  | 26   | 562  | 447  | 350              | 2.99 | 5.1  | 1.1  | 0   | 81  | 0.9  | 2.51  | 5.5  | 152                   | HAWARDEN JERSEYS INC        | ID   |
| 1.612 FOREST GLEN LOUIES BUTTON          | 067354578       | 8K  | F   | 4578             | 1   | 71  | 957   | -0.09 | 27  | -0.05 | 25   | 484  | 476  | 459              | 2.64 | 5.6  | 0.8  | 0   | 72  | 0.9  | 1.80  | 7.7  | 152                   | DIAMOND VALLEY DAIRY        | OR   |
| 1.613 JARS OF CLAY IMPULS SALLY          | 067333046       | 3K  |     | 33046            | 2   | 69  | 226   | 0.14  | 38  | 0.09  | 25   | 475  | 398  | 334              | 2.96 | 4.1  | 1.0  | 2   | 83  | 1.1  | 4.52  | 6.5  | 152                   | QUIST, JIM                  | CA   |
| 1.614 HIGHLAND HALLMARK AV SARA          | 067102003       | 3K  |     | 2003             | 5   | 77  | 803   | -0.03 | 32  | -0.03 | 24   | 419  | 408  | 398              | 2.85 | 4.2  | 0.2  | 2   | 90  | 1.8  | 5.32  | 9.8  | 152                   | HIGHLAND FARMS              | ME   |
| 1.615 AHLEM LEGAL TILLY 35636            | 069042842       | 8K  | F   | 35636            | 1   | 72  | 776   | 0.04  | 41  | -0.02 | 24   | 390  | 387  | 393              | 3.07 | 3.7  | 0.7  | 1   | 79  | 1.9  | 5.45  | 8.2  | 152                   | AHLEM, WILLIAM JR           | CA   |
| 1.616 AHLEM IATOLA DORA 31188            | 066068572       | 3K  |     | 31188            | 3   | 74  | 531   | 0.05  | 33  | 0.03  | 24   | 455  | 418  | 391              | 2.99 | 4.3  | 0.8  | 3   | 90  | 1.7  | 4.29  | 9.2  | 152                   | AHLEM, WILLIAM JR           | CA   |
| 1.617 JER-Z-BOYZ APPARITION 25899        | 117494628       | 3K  |     | 25899            | 4   | 74  | 398   | 0.14  | 43  | 0.05  | 24   | 519  | 462  | 409              | 2.85 | 4.9  | 1.0  | 0   | 86  | 0.1  | 1.14  | 6.7  | 152                   | DEGRAAF FARMS               | CA   |
| 1.618 FARIA BROTHERS RENEGADE 101818     | 84000300835186  | 6K  | F   | 101818           | 1   | 70  | 412   | 0.18  | 53  | 0.05  | 23   | 476  | 423  | 375              | 2.87 | 3.6  | 0.7  | 0   |     | 1.7  | 3.18  | 7.9  | 152                   | FARIA DAIRY                 | AZ   |
| 1.619 AHLEM LEGAL GEM 35517              | 069042723       | 8K  | C   | 35517            | 1   | 71  | 313   | 0.09  | 32  | 0.07  | 23   | 453  | 398  | 355              | 3.03 | 4.4  | 0.6  | 1   | 76  | 2.4  | 5.91  | 8.3  | 152                   | AHLEM, WILLIAM JR           | CA   |
| 1.620 MULTI-ROSE LOTTO 3810              | 840003004599434 | 3K  |     | 3810             | 0   | 64  | 666   | 0.11  | 51  | -0.02 | 19   | 438  | 437  | 437              | 2.94 | 4.4  | 0.9  | 1   | 83  | 1.6  | 4.99  | 8.5  | 152                   | MULTI ROSE JERSEYS INC      | IA   |
| 1.621 PHILS ALLSTAR 6845                 | 117873526       | 8K  | F   | 6845             | 0   | 66  | 133   | 0.28  | 59  | 0.07  | 18   | 495  | 428  | 366              | 2.83 | 3.4  | -0.5 | 0   | 78  | 1.7  | 6.04  | 7.6  | 152                   | FANELLI, PHIL V             | CA   |
| 1.622 ORTHRIDGE TBONE LYNETTE            | 116841267       | 3K  |     | 484              | 2   | 69  | 1,254 | 0.01  | 59  | 0.01  | 47   | 339  | 305  | 290              | 3.14 | 0.9  | -0.7 | 2   | 80  | 0.9  | 0.43  | 8.5  | 151                   | ORTHRIDGE FARMS             | WI   |
| 1.623 WESTWICK ICE 18375                 | 117776454       | 6K  | F   | 18375            | 0   | 66  | 1,104 | 0.05  | 61  | 0.02  | 44   | 405  | 358  | 325              | 2.98 | 0.8  | -0.5 | 0   | 76  | 0.3  | -0.56 | 8.2  | 151                   | WICKSTROM, VERNON           | CA   |
| 1.624 BW NASRALLAH RACHEL U626           | 117210282       | 3K  |     | 288              | 1   | 71  | 1,093 | 0.13  | 75  | 0.02  | 42   | 366  | 337  | 330              | 3.23 | 0.9  | -0.4 | 1   | 82  | 1.2  | 1.36  | 8.2  | 151                   | BRENTWOOD FARMS             | CA   |
| 1.625 MS VERMEER 5606 H297               | 117609833       | 6K  | F   | 8297             | 0   | 64  | 1,037 | 0.15  | 75  | 0.03  | 42   | 455  | 406  | 371              | 2.98 | 2.0  | -0.1 | 0   |     | -0.1 | -1.99 | 6.6  | 151                   | MOUNTAIN SHADOW DAIRY       | AZ   |
| 1.626 JER-Z-BOYZ DIESEL TILLAMOOK        | 067116703       | 3K  |     | 703              | 1   | 65  | 727   | 0.23  | 76  | 0.08  | 42   | 432  | 345  | 278              | 3.00 | 0.2  | -0.7 | 2   | 81  | 0.5  | 0.46  | 5.5  | 151                   | ORTHRIDGE FARMS             | WI   |
| 1.627 PR FARIA BROTHERS MYTIME 65502     | 840003006263953 | 6K  | C   | 65502            | 1   | 67  | 993   | 0.04  | 54  | 0.02  | 41   | 402  | 345  | 296              | 2.84 | 0.8  | -0.2 | 1   | 82  | 0.5  | 1.18  | 5.9  | 151                   | FARIA DAIRY                 | AZ   |
| 1.628 GR CLOVER PATCH GANNON RIZZO       | 116775058       | 8K  | F   | 1619             | 2   | 70  | 1,668 | -0.15 | 46  | -0.10 | 40   | 282  | 314  | 350              | 2.96 | 2.0  | -0.9 | 2   | 83  | 1.5  | 3.55  | 5.7  | 151                   | KOZAK, ALAN                 | OH   |
| 1.629 AVI-LANCHE STONEY MAGNOLIA 5021    | 840003009245592 | 3K  |     | 5021             | 1   | 69  | 1,145 | 0.10  | 71  | 0.00  | 40   | 330  | 310  | 305              | 3.11 | -0.1 | -0.8 | 1   | 81  | 0.9  | 2.80  | 6.0  | 151                   | AVILA RICHARD & JENNIFER M  | TX   |
| 1.630 AVI-LANCHE TBONE FAWN 4888         | 840003008324245 | 3K  |     | 4888             | 1   | 71  | 883   | 0.01  | 43  | 0.04  | 40   | 386  | 325  | 276              | 2.92 | 1.6  | -1.0 | 1   | 78  | 1.6  | 2.99  | 9.2  | 151                   | AVILA RICHARD & JENNIFER M  | TX   |
| 1.631 FANELLI MERCHANT OREGON 6455       | 117447952       | 6K  | C   | 6455             | 1   | 68  | 1,439 | -0.11 | 46  | -0.06 | 39   | 311  | 325  | 346              | 3.00 | 1.5  | -0.2 | 1   | 82  | 1.6  | 2.51  | 7.7  | 151                   | FANELLI, PHIL V             | CA   |
| 1.632 BW LEGAL JENNA W687                | 117772610       | 6K  | C   | 1523             | 1   | 71  | 1,393 | -0.07 | 51  | -0.05 | 39   | 351  | 361  | 381              | 3.06 | 2.1  | 0.6  | 0   | 83  | 1.2  | 1.59  | 7.5  | 151                   | BRENTWOOD FARMS             | CA   |
| 1.633 LEGAL JOY 751                      | 117517277       | 3K  |     | 204              | 1   | 69  | 1,325 | -0.15 | 32  | -0.04 | 39   | 315  | 325  | 350              | 3.18 | 3.2  | 0.0  | 1   | 84  | 1.9  | 3.93  | 6.9  | 151                   | MOYE, NEIL                  | NC   |
| 1.634 AHLEM JIMMIE FAITH 31272           | 066068656       | 8K  | C   | 31272            | 3   | 76  | 1,045 | -0.10 | 30  | 0.01  | 39   | 351  | 315  | 292              | 2.99 | 1.8  | -0.6 | 2   | 86  | 1.8  | 3.58  | 11.0 | 151                   | AHLEM, WILLIAM JR           | CA   |
| 1.635 CAL-MART SIXTYNINE SAMI 5320       | 067185320       | 6K  | C   | 5320             | 1   | 63  | 926   | 0.05  | 51  | 0.03  | 39   | 447  | 401  | 372              | 3.06 | 3.4  | 0.0  | 0   | 71  | 0.5  | 0.12  | 4.7  | 151                   | MARTIN DAIRY LLC            | OR   |
| 1.636 GR CAL-MART GANNON BILLIE 2834     | 116718675       | 8K  | C   | 1006             | 3   | 73  | 1,209 | -0.02 | 50  | -0.03 | 37   | 349  | 342  | 346              | 3.02 | 2.3  | 0.0  | 2   | 84  | 0.9  | 2.89  | 5.0  | 151                   | MARTIN DAIRY LLC            | OR   |
| 1.637 HILMAR ABE 33168                   | 067433168       | 6K  | F   | 33168            | 1   | 66  | 1,030 | -0.06 | 37  | 0.01  | 37   | 338  | 306  | 282              | 2.92 | 1.8  | -0.9 | 0   |     | 1.2  | 4.30  | 4.5  | 151                   | AHLEM, CHARLES              | CA   |
| 1.638 MULTI-ROSE BOLD 3881               | 840003004599363 | 3K  |     | 3881             | 0   | 63  | 909   | 0.06  | 52  | 0.02  | 37   | 390  | 350  | 328              | 3.10 | 2.3  | 0.0  | 1   | 77  | 1.3  | 2.69  | 6.8  | 151                   | METZGER SCOTT & DANA        | IA   |
| 1.639 SUN VALLEY IMPULS IDABELL          | 117053708       | 8K  | F   | 2517             | 2   | 71  | 841   | 0.07  | 52  | 0.04  | 37   | 441  | 387  | 344              | 2.93 | 2.4  | 0.3  | 1   | 82  | 1.1  | 0.98  | 6.0  | 151                   | SUN VALLEY FARM             | OR   |
| 1.640 GR CAL-MART RENEGADE TANDY 3520    | 117198456       | 3K  |     | 3520             | 1   | 70  | 571   | 0.16  | 57  | 0.09  | 37   | 442  | 358  | 294              | 3.03 | 1.7  | 0.2  | 1   | 73  | 1.8  | 2.33  | 7.4  | 151                   | MARTIN DAIRY LLC            | OR   |
| 1.641 SUNSET CANYON VIBRANT DAFFY 921-ET | 117212190       | 50K | F   | 1921             | 1   | 73  | 1,311 | -0.13 | 34  | -0.05 | 36   | 377  | 382  | 390              | 2.92 | 3.6  | -0.1 | 1   | 84  | 0.8  | 1.01  | 7.4  | 151                   | SUNSET CANYON & HALE KARA   | OR   |
| 1.642 RED TOP SHAWNEE 11918              | 067411918       | 8K  | F   | 11918            | 2   | 71  | 1,167 | -0.04 | 44  | -0.04 | 36   | 410  | 393  | 378              | 2.80 | 2.9  | 0.3  | 2   | 80  | 0.0  | 0.11  | 4.8  | 151                   | RED TOP JERSEYS             | CA   |
| 1.643 BOYD-LEE ARTIST JACKIE             | 115313710       | 3K  |     | 274              | 5   | 72  | 1,083 | -0.03 | 43  | -0.02 | 36   | 422  | 397  | 379              | 2.89 | 2.8  | 0.5  | 3   | 89  | 0.7  | 0.95  | 6.1  | 151                   | BOYD, TYLER L               | TN   |
| 1.644 GR AHLEM GANNON CAYMAN 35532       | 069042738       | 8K  | C   | 35532            | 1   | 63  | 962   | 0.07  | 56  | 0.02  | 36   | 415  | 378  | 351              | 2.92 | 2.5  | 0.5  | 1   | 82  | 0.7  | 0.95  | 2.8  | 151                   | AHLEM, WILLIAM JR           | CA   |
| 1.645 FOREST GLEN LOUIES ROSE            | 067354202       | 8K  | C   | 4202             | 1   | 68  | 960   | 0.03  | 49  | 0.00  | 36   | 438  | 403  | 376              | 2.92 | 3.1  | 0.9  | 0   | 78  | 1.1  | 0.45  | 5.6  | 151                   | BANSEN STANLEY K & DORA H   | OR   |
| 1.646 BOYD-LEE NASRALLAH H GEMMA-ET      | 117460173       | 3K  |     | 8                | 1   | 68  | 899   | 0.07  | 56  | 0.01  | 36   | 412  | 382  | 370              | 3.15 | 2.9  | 0.8  | 1   | 85  | 0.8  | 0.79  | 6.6  | 151                   | HERRERA, CAMILLE            | CA   |
| 1.647 D&E SEVILLE REGINA 2173            | 067272173       | 3K  |     | 2173             | 3   | 73  | 819   | -0.04 | 29  | 0.04  | 36   | 387  | 325  | 270              | 2.81 | 1.8  | -0.1 | 2   | 83  | 1.0  | 3.28  | 7.5  | 151                   | AVILA RICHARD & JENNIFER M  | TX   |
| 1.648 GOLDUST ECLIPES LEANDRA-ET         | 067382043       | 8K  | F   | 2043             | 1   | 72  | 704   | 0.12  | 56  | 0.06  | 36   | 418  | 342  | 274              | 2.80 | 0.9  | -1.0 | 0   | 83  | 1.4  | 3.32  | 8.6  | 151                   | LOURENZO, KEVIN B           | ID   |
| 1.649 HEARTLAND LEGAL BONITA-ET          | 067262345       | 3K  |     | 2345             | 1   | 66  | 986   | -0.07 | 32  | 0.00  | 35   | 404  | 379  | 365              | 3.01 | 4.0  | 0.2  | 1   | 83  | 1.1  | 2.38  | 5.9  | 151                   | WAKKER DAIRY                | WI   |
| 1.650 AHLEM LEGAL BLOOM 35414            | 069042620       | 8K  | F   | 35414            | 2   | 72  | 906   | -0.07 | 30  | 0.01  | 35   | 405  | 372  | 352              | 3.04 | 3.0  | 0.9  | 1   | 83  | 1.7  | 2.87  | 7.3  | 151                   | AHLEM, WILLIAM JR           | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | CCN    | Rec | Rel | ----- GPTA ----- |       |     |       |      |      | ----- TYPE ----- |      |      |     |      |     |    | Owner | ST    |      |     |  |      |
|--|-----------------|-----|-----|--------|-----|-----|------------------|-------|-----|-------|------|------|------------------|------|------|-----|------|-----|----|-------|-------|------|-----|--|------|
|  |                 |     |     |        |     |     | Milk             | %F    | Fat | %P    | Prot | CM\$ | NM\$             | FM\$ | SCS  | PL  | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                                      | GJPI |
| 1.651 GR AHLEM GANNON TOPSY 35688        | 069042894       | 3K  |     | 35688  | 1   | 64  | 1,042            | -0.02 | 43  | -0.02 | 34   | 362  | 344              | 333  | 2.92 | 2.6 | 0.1  | 1   | 85 | 1.0   | 3.68  | 4.1  | 151 | AHLEM, WILLIAM JR                        | CA   |
| 1.652 AHLEM LEGAL TIFFANY 35567          | 069042773       | 8K  | F   | 35567  | 1   | 70  | 1,021            | 0.00  | 48  | -0.02 | 34   | 381  | 376              | 389  | 3.22 | 3.1 | 0.8  | 1   | 79 | 1.7   | 2.68  | 7.6  | 151 | AHLEM, WILLIAM JR                        | CA   |
| 1.653 GOFF RAY 9482                      | 067209482       | 8K  | C   | 9482   | 2   | 73  | 910              | -0.07 | 30  | 0.01  | 34   | 359  | 323              | 294  | 2.91 | 1.7 | 0.7  | 2   | 87 | 1.5   | 3.52  | 7.9  | 151 | GOFF, BUSTER                             | NM   |
| 1.654 TJF/LEE VALENTINO MAMME 980-ET     | 117561904       | 3K  |     | 9980   | 1   | 71  | 764              | 0.12  | 57  | 0.04  | 34   | 418  | 360              | 310  | 2.84 | 2.3 | -1.1 | 1   | 84 | 1.5   | 3.05  | 7.6  | 151 | GARDNER MARK & SHANNON                   | PA   |
| 1.655 CAL-MART VIRGIL CARINA 5317-ET     | 067185317       | 6K  | F   | 5317   | 1   | 67  | 582              | 0.16  | 56  | 0.07  | 34   | 445  | 382              | 340  | 3.12 | 3.0 | -0.3 | 0   | 75 | 1.0   | 2.19  | 5.2  | 151 | MARTIN DAIRY LLC                         | OR   |
| 1.656 TOLLENAAR HEADLINE 6512            | 840003007398590 | 3K  |     | 6512   | 0   | 64  | 1,057            | -0.05 | 38  | -0.03 | 33   | 386  | 381              | 386  | 3.05 | 4.4 | 0.2  | 2   | 78 | 1.5   | 2.80  | 8.6  | 151 | TOLLENAAR JERSEYS                        | CA   |
| 1.657 OOMSDALE LEGAL GARYN GLORIS-ET     | 067138550       | 3K  |     | 9967   | 1   | 66  | 927              | -0.01 | 40  | 0.00  | 33   | 354  | 329              | 315  | 2.99 | 2.2 | 0.7  | 1   | 82 | 1.6   | 4.95  | 5.0  | 151 | SAWYER SHELDON AND/OR ROSELLA            | NH   |
| 1.658 DP LYNDON DAISY 932                | 067106932       | 3K  |     | 932    | 1   | 69  | 921              | 0.00  | 42  | -0.01 | 33   | 423  | 397              | 380  | 2.96 | 3.5 | 0.5  | 1   | 83 | 1.2   | 2.18  | 7.4  | 151 | DESERT PARK JERSEYS                      | OR   |
| 1.659 BW MAXIMUM SUZANNE IVF4-ET         | 117698134       | 3K  |     | 1102   | 0   | 62  | 744              | 0.15  | 63  | 0.04  | 33   | 431  | 388              | 361  | 3.09 | 2.8 | 0.6  | 0   | 78 | 0.9   | 2.04  | 4.9  | 151 | BRENTWOOD FARMS                          | CA   |
| 1.660 AHLEM LEGAL PUFF 35171             | 069042377       | 8K  | F   | 35171  | 2   | 71  | 822              | 0.00  | 38  | 0.02  | 32   | 362  | 338              | 331  | 3.17 | 2.9 | 0.1  | 0   | 82 | 1.6   | 4.70  | 7.1  | 151 | AHLEM, WILLIAM JR                        | CA   |
| 1.661 PR VALSIGNA SPARKY 17423           | 117611029       | 3K  |     | 17423  | 1   | 69  | 763              | 0.08  | 50  | 0.02  | 32   | 410  | 369              | 339  | 3.00 | 2.5 | -0.4 | 1   | 78 | 1.1   | 2.61  | 8.3  | 151 | WICKSTROM DAIRIES, LP                    | CA   |
| 1.662 SUNSET CANYON IMPULS L MAID 2-ET   | 116519641       | 50K | F   | 1746   | 2   | 71  | 258              | 0.34  | 75  | 0.12  | 32   | 507  | 416              | 350  | 3.17 | 3.0 | 0.1  | 2   | 87 | 0.9   | 2.04  | 4.1  | 151 | SILVA, ERIC LEONARD                      | OR   |
| 1.663 CHASIN-RAINBOWS ABE SASHA          | 067030432       | 3K  |     | 432    | 5   | 74  | 980              | -0.08 | 31  | -0.03 | 31   | 417  | 398              | 380  | 2.83 | 3.7 | 0.9  | 2   | 91 | 0.4   | 0.92  | 7.2  | 151 | TOHL, PATTI                              | OR   |
| 1.664 GR TC 1365 DALE BESS               | 116582054       | 3K  |     | 1365   | 3   | 71  | 891              | 0.02  | 45  | 0.00  | 31   | 393  | 372              | 361  | 3.01 | 3.8 | 0.4  | 2   | 91 | 1.5   | 3.62  | 5.5  | 151 | LUTZ CAMERON & KRISTA                    | NC   |
| 1.665 HEARTLAND TBONE OREO               | 067251999       | 6K  | F   | 19990  | 2   | 74  | 794              | 0.05  | 45  | 0.01  | 31   | 378  | 343              | 317  | 2.97 | 1.8 | -0.1 | 2   | 90 | 2.0   | 4.56  | 9.0  | 151 | FAIRBANKS, DOUG                          | IA   |
| 1.666 D&E ABE HONEY 21886                | 067421886       | 3K  |     | 21886  | 2   | 68  | 716              | 0.17  | 66  | 0.04  | 31   | 511  | 460              | 415  | 2.83 | 3.7 | 0.4  | 1   | 83 | 0.0   | -1.01 | 5.2  | 151 | D & E JERSEYS                            | TX   |
| 1.667 HEARTLAND VALENTINO DIANNA         | 067232290       | 50K | C   | 2290   | 1   | 73  | 578              | 0.12  | 50  | 0.06  | 31   | 424  | 362              | 312  | 2.93 | 2.3 | 0.2  | 1   | 84 | 1.3   | 3.26  | 8.1  | 151 | HEARTLAND JERSEYS                        | KS   |
| 1.668 WILSONVIEW MARKER KREAM            | 117255717       | 8K  | F   | 1646   | 2   | 71  | 437              | 0.26  | 69  | 0.09  | 31   | 464  | 387              | 324  | 2.97 | 1.1 | 0.8  | 2   | 90 | 1.0   | 2.42  | 6.6  | 151 | WILSONVIEW DAIRY                         | OR   |
| 1.669 BERRYS HEADLINE KYLIE              | 117518764       | 3K  |     | 1111   | 1   | 68  | 1,113            | -0.09 | 34  | -0.06 | 30   | 419  | 425              | 435  | 2.95 | 5.3 | 0.3  | 0   |    | 1.1   | 2.15  | 7.5  | 151 | BERRY COLLEGE                            | GA   |
| 1.670 VALSIGNA SPARKY 17206              | 117551886       | 3K  |     | 17206  | 1   | 70  | 752              | -0.05 | 24  | 0.02  | 30   | 401  | 364              | 335  | 2.95 | 3.5 | 0.5  | 1   | 65 | 0.7   | 3.48  | 8.2  | 151 | WICKSTROM DAIRIES, LP                    | CA   |
| 1.671 GR FARIA BROTHERS RENEGADE ED REED | 840003008321513 | 6K  | F   | 100406 | 1   | 64  | 749              | 0.14  | 59  | 0.01  | 29   | 477  | 438              | 403  | 2.83 | 3.7 | 0.6  | 0   |    | 0.7   | 1.14  | 3.1  | 151 | FARIA DAIRY                              | AZ   |
| 1.672 HAVS LOVABULL WATCHFULL-P          | 115454745       | 3K  |     | 1707   | 4   | 73  | 650              | 0.09  | 46  | 0.02  | 29   | 459  | 402              | 344  | 2.69 | 2.6 | -0.3 | 2   | 92 | 1.0   | 3.48  | 8.4  | 151 | LEHR, KYLIE MARGARET                     | NY   |
| 1.673 VAL TOP                            | 115231692       | 3K  |     | 3668   | 4   | 74  | 1,252            | -0.20 | 21  | -0.09 | 28   | 406  | 428              | 443  | 2.74 | 4.8 | 0.9  | 3   | 90 | 0.6   | 1.80  | 6.8  | 151 | HEINZ, LLOYD                             | WI   |
| 1.674 DEN-KEL ACADEMY JORDAN             | 067100770       | 3K  |     | 7700   | 1   | 69  | 987              | -0.06 | 33  | -0.04 | 28   | 404  | 398              | 390  | 2.82 | 4.2 | 0.1  | 1   | 90 | 1.2   | 3.56  | 6.5  | 151 | HY-LIGHT FARMS LLC                       | NY   |
| 1.675 DEBOER TBONE F9059                 | 117397949       | 3K  |     | 9059   | 1   | 71  | 853              | 0.00  | 39  | -0.02 | 28   | 423  | 403              | 386  | 2.88 | 3.3 | 0.9  | 1   | 78 | 1.7   | 2.56  | 10.1 | 151 | DEBOER, NICO                             | TX   |
| 1.676 AHLEM LEGAL CANDACE 35590          | 069042796       | 3K  |     | 35590  | 1   | 70  | 639              | 0.05  | 40  | 0.02  | 28   | 420  | 387              | 368  | 3.08 | 3.8 | 0.7  | 1   | 82 | 1.6   | 4.36  | 8.9  | 151 | AHLEM, WILLIAM JR                        | CA   |
| 1.677 DP RENEGADE CASSIE 1168            | 067551168       | 3K  |     | 1168   | 0   | 63  | 563              | 0.06  | 37  | 0.04  | 28   | 465  | 412              | 366  | 2.87 | 4.2 | 0.7  | 0   |    | 0.9   | 2.17  | 6.9  | 151 | DESERT PARK JERSEYS                      | OR   |
| 1.678 DBW LEGAL ELLEN                    | 117335244       | 6K  | C   | 488    | 1   | 68  | 546              | 0.05  | 32  | 0.03  | 27   | 452  | 391              | 331  | 2.72 | 3.4 | 0.4  | 0   | 84 | 1.1   | 4.25  | 5.0  | 151 | WRIGHT DERRICK OR BEVERLY                | VT   |
| 1.679 VALSIGNA SPARKY 18215              | 117728479       | 6K  | F   | 18215  | 0   | 67  | 532              | 0.12  | 46  | 0.04  | 27   | 420  | 368              | 325  | 2.94 | 2.4 | 0.5  | 0   | 76 | 1.2   | 3.96  | 8.5  | 151 | WICKSTROM DAIRIES, LP                    | CA   |
| 1.680 AHLEM LEGAL JENNY 35914            | 069043120       | 8K  | F   | 35914  | 1   | 71  | 826              | 0.01  | 40  | -0.02 | 26   | 412  | 396              | 380  | 2.85 | 3.0 | 0.0  | 2   | 83 | 1.7   | 4.53  | 7.8  | 151 | AHLEM, WILLIAM JR                        | CA   |
| 1.681 SUNSET CANYON ALLSTAR M BELLE-ET   | 117513068       | 3K  |     | 2008   | 0   | 61  | 730              | 0.27  | 85  | 0.00  | 26   | 491  | 467              | 450  | 2.95 | 3.2 | -0.2 | 0   | 85 | 1.0   | 1.85  | 5.3  | 151 | SILVA, ERIC LEONARD                      | OR   |
| 1.682 VALSIGNA KILOWATT 18269            | 117728947       | 6K  | F   | 18269  | 0   | 66  | 473              | 0.14  | 46  | 0.05  | 26   | 487  | 424              | 363  | 2.75 | 3.6 | 0.4  | 0   | 68 | 0.7   | 2.55  | 8.0  | 151 | WICKSTROM DAIRIES, LP                    | CA   |
| 1.683 CLOVER PATCH MAXIMUM ENVY          | 116199744       | 3K  |     | 1363   | 3   | 70  | 338              | 0.28  | 67  | 0.07  | 25   | 506  | 437              | 377  | 2.89 | 3.1 | 0.3  | 2   | 87 | 0.9   | 2.38  | 5.7  | 151 | KOZAK, ALAN                              | OH   |
| 1.684 HILMAR ACTION 28638                | 067328638       | 3K  |     | 38     | 1   | 69  | 292              | 0.15  | 43  | 0.08  | 25   | 484  | 414              | 356  | 2.94 | 4.1 | 0.4  | 1   | 80 | 1.5   | 3.66  | 9.2  | 151 | GREEN, STEPHEN                           | OH   |
| 1.685 SUNSET CANYON RENEGADE C MAID      | 117168857       | 50K | F   | 1907   | 1   | 70  | 347              | 0.25  | 65  | 0.06  | 24   | 490  | 426              | 371  | 2.89 | 3.5 | 0.5  | 1   | 87 | 1.8   | 3.60  | 6.5  | 151 | RIVER VALLEY FARM                        | IL   |
| 1.686 AHLEM LEGAL CHARM 37460            | 070048934       | 8K  | F   | 37460  | 1   | 70  | 864              | -0.08 | 24  | -0.04 | 23   | 382  | 380              | 375  | 2.80 | 4.1 | 0.3  | 0   | 78 | 2.0   | 6.47  | 7.5  | 151 | AHLEM, WILLIAM JR                        | CA   |
| 1.687 CLOVER PATCH ZUMA CARRABBA         | 117676503       | 8K  | F   | 2114   | 1   | 67  | 615              | 0.14  | 54  | 0.00  | 23   | 478  | 448              | 416  | 2.78 | 4.1 | 0.2  | 0   | 80 | 0.5   | 1.65  | 5.1  | 151 | KOZAK, ALAN                              | OH   |
| 1.688 VICS CELEBRITY SHELBA 6438         | 117448186       | 3K  |     | 6438   | 1   | 70  | 495              | 0.08  | 36  | 0.02  | 21   | 418  | 386              | 359  | 2.91 | 3.9 | 0.7  | 1   | 88 | 2.2   | 5.26  | 10.2 | 151 | GUELL ANIMAL BREEDING AND VICTOR FANELLI | CA   |
| 1.689 HAWARDEN IATOLA PIXY               | 116143547       | 50K | F   | 472    | 4   | 77  | 331              | 0.15  | 42  | 0.05  | 21   | 439  | 388              | 346  | 2.95 | 3.1 | 0.0  | 2   | 92 | 2.0   | 6.09  | 10.4 | 151 | HAWARDEN JERSEYS INC                     | ID   |
| 1.690 YOSEMITE KARBALA GHENT P24122      | 840003008443166 | 3K  |     | 24122  | 1   | 68  | 752              | 0.00  | 34  | -0.05 | 19   | 427  | 429              | 425  | 2.78 | 5.1 | 0.0  | 0   | 82 | 1.9   | 5.00  | 7.2  | 151 | YOSEMITE JERSEY DAIRY                    | CA   |
| 1.691 PETERSON ZUMA TERRI                | 117722099       | 8K  | F   | 828    | 1   | 61  | -11              | 0.25  | 47  | 0.09  | 16   | 548  | 467              | 387  | 2.72 | 4.4 | 1.4  | 0   | 84 | 0.8   | 3.57  | 4.5  | 151 | PETERSON ERIC & ROY                      | OR   |
| 1.692 GR CAL-MART VIBRANT JERAE 3710     | 117323946       | 3K  |     | 3710   | 1   | 67  | 1,825            | -0.11 | 59  | -0.05 | 54   | 323  | 329              | 353  | 3.17 | 1.4 | -1.4 | 1   | 73 | -0.5  | -1.93 | 4.5  | 150 | MARTIN DAIRY LLC                         | OR   |
| 1.693 YOSEMITE MOHAWK S FORCES N20310    | 840003007349489 | 3K  |     | 20310  | 2   | 72  | 1,661            | -0.16 | 48  | -0.06 | 48   | 341  | 337              | 339  | 2.91 | 1.7 | -0.9 | 2   | 81 | 0.4   | -0.84 | 8.3  | 150 | YOSEMITE JERSEY DAIRY                    | CA   |
| 1.694 ALL LYNNS VAUGHN MAIDEN            | 117422793       | 3K  |     | 1423   | 1   | 62  | 1,279            | -0.02 | 54  | 0.01  | 47   | 393  | 362              | 353  | 3.17 | 2.4 | -0.2 | 1   | 78 | -0.1  | -1.41 | 4.4  | 150 | ALLEN, DAVID                             | WI   |
| 1.695 GR TENN GANNON HDD MAID            | 117047004       | 3K  |     | 30844  | 2   | 65  | 1,501            | -0.05 | 59  | -0.05 | 43   | 333  | 342              | 363  | 3.08 | 2.3 | 0.1  | 1   | 86 | 0.2   | 0.29  | 3.2  | 150 | TAYLOR, WYATT                            | CA   |
| 1.696 GR O.F. GANNON PRISCILLA           | 067277176       | 8K  | F   | 7176   | 1   | 66  | 1,493            | 0.00  | 70  | -0.06 | 41   | 323  | 331              | 346  | 2.98 | 1.1 | -0.9 | 2   | 88 | 0.9   | 1.90  | 3.6  | 150 | OWENS FARMS INC                          | WI   |
| 1.697 DUTCH HOLLOW CHAMP GEORGETTE       | 067284247       | 8K  | C   | 4247   | 1   | 73  | 1,199            | 0.00  | 56  | -0.01 | 41   | 359  | 337              | 332  | 3.09 | 1.2 | 0.0  | 1   | 88 | 1.3   | 1.55  | 9.1  | 150 | CHITTENDEN, CASSANDRA L                  | NY   |
| 1.698 WOODSTOCK MATINEE RINDI-ET         | 115934410       | 3K  |     | 1021   | 4   | 73  | 1,014            | 0.10  | 67  | 0.02  | 41   | 433  | 383              | 346  | 2.95 | 2.0 | -0.3 | 2   | 88 | 0.8   | -0.31 | 6.5  | 150 | WOODSTOCK DAIRY                          | OR   |
| 1.699 HILMAR BENEFACOR 25490             | 067325490       | 6K  | F   | 25490  | 2   | 75  | 1,348            | -0.11 | 42  | -0.04 | 40   | 327  | 326              | 335  | 3.02 | 1.3 | -0.6 | 2   | 80 | 1.5   | 2.80  | 8.9  | 150 | AHLEM, CHARLES                           | CA   |
| 1.700 O.F. IMPULS IVANKA                 | 067126643       | 3K  |     | 6643   | 3   | 69  | 768              | 0.04  | 42  | 0.06  | 40   | 506  | 433              | 375  | 2.95 | 4.4 | 0.4  | 2   | 78 | 0.1   | -1.59 | 4.8  | 150 | OWENS FARMS INC                          | WI   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      | Owner | ST   |     |                                     |      |
|--|-----------------|-----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|------|-----|-------------------------------------|------|
|  |                 |     |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                                 | GJPI |
| 1,701 HI-KEL TBONE PHYLLO-ET             | 067078705       | 3K  |     | 705    | 1   | 71  | 707   | 0.14  | 57  | 0.07  | 40   | 395  | 316  | 254  | 2.98 | 1.0 | -1.1 | 2   | 86 | 1.4  | 2.26  | 9.9  | 150 | DENNISTON-KELLER ROBIN / KELLER KIP | NY   |
| 1,702 DUPAT SUNNY 6524                   | 067236524       | 3K  |     | 6524   | 3   | 73  | 846   | 0.00  | 38  | 0.04  | 39   | 383  | 329  | 291  | 3.06 | 2.0 | 0.2  | 2   | 82 | 0.5  | 2.11  | 7.1  | 150 | WICKSTROM JERSEY FARMS INC          | CA   |
| 1,703 FARIA BROTHERS BLADE 100261        | 840003008321368 | 6K  | F   | 100261 | 1   | 71  | 839   | 0.11  | 60  | 0.05  | 39   | 437  | 372  | 318  | 2.89 | 1.9 | -0.7 | 1   | 84 | 0.8  | 0.76  | 6.9  | 150 | FARIA BROS DAIRIES                  | TX   |
| 1,704 SHAN-MAR VANCE PRETZEL             | 067128536       | 3K  |     | 536    | 1   | 68  | 1,374 | -0.11 | 40  | -0.06 | 38   | 360  | 371  | 390  | 3.02 | 3.3 | -0.5 | 1   | 85 | 0.8  | 1.11  | 7.0  | 150 | GARDNER MARK & SHANNON              | PA   |
| 1,705 BW PARADE ANISSA R510              | 115688971       | 3K  |     | 44     | 4   | 75  | 888   | 0.03  | 47  | 0.03  | 38   | 354  | 305  | 267  | 2.96 | 1.0 | -0.2 | 2   | 88 | 1.7  | 3.39  | 8.4  | 150 | BRENTWOOD FARMS                     | CA   |
| 1,706 SCHULTZ ABE CYNDEE                 | 067116148       | 3K  |     | 6148   | 4   | 75  | 1,454 | -0.08 | 54  | -0.08 | 37   | 367  | 385  | 405  | 2.90 | 2.8 | -0.5 | 3   | 88 | 0.2  | 0.09  | 7.5  | 150 | HUFFARD JAMES S III & JAMES S IV    | VA   |
| 1,707 YOSEMITE ABE DANIEL G1162          | 067401162       | 3K  |     | 1162   | 5   | 74  | 997   | -0.01 | 42  | 0.02  | 37   | 455  | 408  | 363  | 2.74 | 3.2 | -0.3 | 2   | 90 | 0.5  | 0.79  | 6.5  | 150 | YOSEMITE JERSEY DAIRY               | CA   |
| 1,708 ORTHRIDGE BLADE YOLANDA-ET         | 067127827       | 3K  |     | 827    | 1   | 62  | 908   | 0.07  | 55  | 0.02  | 37   | 409  | 370  | 349  | 3.11 | 2.5 | 0.8  | 1   | 72 | 0.1  | 0.25  | 3.8  | 150 | ORTHRIDGE FARMS                     | WI   |
| 1,709 GR HILMAR MAXIMUS 18604            | 067218604       | 3K  |     | 18604  | 4   | 72  | 699   | 0.24  | 76  | 0.06  | 37   | 495  | 420  | 356  | 2.87 | 1.6 | -0.2 | 2   | 78 | 0.3  | 0.09  | 5.3  | 150 | AHLEM, CHARLES                      | CA   |
| 1,710 FOREST GLEN LOUIES JANICE          | 067354771       | 6K  | F   | 4771   | 0   | 66  | 1,025 | 0.00  | 48  | 0.00  | 36   | 335  | 313  | 306  | 3.08 | 1.3 | 0.4  | 0   | 79 | 1.7  | 3.58  | 7.6  | 150 | FOREST GLEN JERSEYS                 | OR   |
| 1,711 JER-Z-BOYZ LOUIE 30880             | 117647549       | 3K  |     | 30880  | 2   | 71  | 911   | 0.05  | 51  | 0.01  | 36   | 353  | 317  | 294  | 3.02 | 1.4 | -0.4 | 2   | 86 | 1.8  | 4.17  | 7.2  | 150 | JER-Z-BOYZ                          | CA   |
| 1,712 GR JER-Z-BOYZ GANNON 30776         | 117957431       | 3K  |     | 30776  | 2   | 71  | 901   | 0.01  | 44  | 0.01  | 36   | 397  | 357  | 329  | 2.97 | 2.9 | 0.0  | 3   | 86 | 0.5  | 2.07  | 5.5  | 150 | JER-Z-BOYZ                          | CA   |
| 1,713 WILSONVIEW JIMMIE MALEY            | 067191481       | 3K  |     | 1030   | 3   | 72  | 812   | 0.01  | 39  | 0.04  | 36   | 436  | 384  | 344  | 2.95 | 2.5 | -0.1 | 2   | 86 | 1.1  | 1.80  | 8.0  | 150 | MOSS, RYAN                          | OR   |
| 1,714 GR LIVE OAK TBONE 8268             | 067238268       | 3K  |     | 8268   | 2   | 71  | 616   | 0.18  | 61  | 0.06  | 35   | 458  | 385  | 327  | 2.97 | 2.4 | -1.2 | 2   | 82 | 1.5  | 2.52  | 6.3  | 150 | RED TOP JERSEYS                     | CA   |
| 1,715 PR VALSIGNA KARBALA 16921          | 117488942       | 3K  |     | 16921  | 1   | 67  | 1,432 | -0.09 | 50  | -0.09 | 34   | 311  | 338  | 365  | 2.90 | 2.1 | -1.0 | 1   | 83 | 1.5  | 4.12  | 5.0  | 150 | WICKSTROM DAIRIES, LP               | CA   |
| 1,716 LUCKY HILL JOKER POETESS           | 117353536       | 3K  |     | 824    | 1   | 64  | 1,396 | -0.16 | 34  | -0.07 | 34   | 340  | 359  | 380  | 2.89 | 2.6 | 0.2  | 1   | 90 | 1.4  | 2.86  | 8.8  | 150 | LUCKY HILL FARM                     | VT   |
| 1,717 BW HEADLINE SUZANNE 3 ET821-ET     | 117526116       | 50K | F   | 807    | 1   | 75  | 1,246 | -0.14 | 30  | -0.05 | 34   | 364  | 379  | 403  | 3.07 | 4.9 | 0.6  | 1   | 78 | 0.7  | 1.81  | 7.8  | 150 | BRENTWOOD FARMS                     | CA   |
| 1,718 SR IMPULS MERRY                    | 114805771       | GI  |     | 174    | 5   | 71  | 807   | 0.03  | 44  | 0.02  | 34   | 438  | 391  | 353  | 2.91 | 3.0 | 0.4  | 3   | 90 | 0.9  | 1.33  | 4.4  | 150 | SPRUCE ROW FARM                     | PA   |
| 1,719 SUNWEST COUNTRY AVERY H7971        | 840003001096210 | 3K  |     | 971    | 4   | 74  | 1,454 | -0.04 | 58  | -0.10 | 33   | 350  | 387  | 423  | 2.93 | 2.3 | 0.9  | 2   | 79 | 0.7  | 0.68  | 8.0  | 150 | SUNWEST JERSEY DAIRY                | CA   |
| 1,720 YOSEMITE LEGAL NIX P23145          | 840003008203068 | 3K  |     | 23145  | 1   | 69  | 1,257 | -0.16 | 30  | -0.06 | 33   | 370  | 384  | 404  | 3.01 | 4.2 | 0.8  | 1   | 77 | 1.4  | 2.59  | 7.2  | 150 | YOSEMITE JERSEY DAIRY               | CA   |
| 1,721 GR FARIA BROTHERS VALENTINO 101497 | 840003008534865 | 6K  | C   | 1497   | 1   | 67  | 1,049 | 0.04  | 56  | -0.03 | 33   | 398  | 381  | 365  | 2.83 | 2.3 | -1.0 | 1   | 85 | 1.4  | 2.88  | 3.8  | 150 | FARIA DAIRY                         | AZ   |
| 1,722 ORTHRIDGE-DB ACTION BONITA         | 067127825       | 3K  |     | 825    | 0   | 66  | 838   | 0.03  | 42  | 0.02  | 33   | 409  | 375  | 356  | 3.06 | 3.6 | 0.1  | 0   | 81 | 1.7  | 2.89  | 10.2 | 150 | MULTI ROSE JERSEYS INC              | IA   |
| 1,723 CAL-MART STRUNK SOUZAN 3212        | 117006890       | 8K  | F   | 3212   | 2   | 74  | 769   | 0.04  | 43  | 0.03  | 33   | 430  | 381  | 340  | 2.88 | 2.2 | 0.5  | 2   | 85 | 1.0  | 2.17  | 8.5  | 150 | MARTIN DAIRY LLC                    | OR   |
| 1,724 GR FARIA BROTHERS INDICA 100401    | 840003008321508 | 6K  | F   | 100401 | 1   | 60  | 699   | 0.22  | 73  | 0.05  | 33   | 469  | 424  | 397  | 3.15 | 2.6 | 0.7  | 0   |    | 0.4  | 0.28  | 3.3  | 150 | FARIA DAIRY                         | AZ   |
| 1,725 GR HILMAR ABE 17778                | 067217778       | 3K  |     | 17778  | 5   | 73  | 579   | 0.14  | 53  | 0.06  | 33   | 512  | 437  | 371  | 2.82 | 4.0 | -0.2 | 3   | 84 | 0.3  | -0.02 | 5.7  | 150 | AHLEM, CHARLES                      | CA   |
| 1,726 VALSIGNA TBONE 11877               | 116184117       | 3K  |     | 11877  | 4   | 73  | 516   | 0.07  | 37  | 0.07  | 33   | 450  | 370  | 302  | 2.89 | 2.8 | -0.1 | 2   | 82 | 2.0  | 3.24  | 8.5  | 150 | WICKSTROM DAIRIES, LP               | CA   |
| 1,727 AHLEM IMPULS ROSETTA 31322         | 066068706       | 3K  |     | 31322  | 3   | 71  | 504   | 0.13  | 48  | 0.08  | 33   | 431  | 351  | 286  | 2.95 | 1.3 | 1.7  | 3   | 83 | 0.6  | 1.93  | 5.5  | 150 | AHLEM, WILLIAM JR                   | CA   |
| 1,728 GR GRAMMER GANNON VINTAGE          | 067233241       | 3K  |     | 3241   | 1   | 65  | 1,177 | -0.05 | 45  | -0.05 | 32   | 368  | 373  | 381  | 2.90 | 3.5 | -0.1 | 1   | 73 | 0.8  | 2.88  | 4.3  | 150 | GRAMMER, WILLIAM D                  | OH   |
| 1,729 GR FARIA BROTHERS REBEL 41512      | 840003003959675 | 3K  |     | 41512  | 5   | 71  | 964   | 0.06  | 56  | -0.01 | 32   | 416  | 394  | 377  | 2.88 | 2.8 | 0.2  | 0   | 80 | 0.4  | 1.55  | 4.0  | 150 | FARIA BROS DAIRIES                  | TX   |
| 1,730 WESTWICK ABE 10050                 | 115507322       | 6K  | F   | 10050  | 5   | 75  | 742   | 0.02  | 38  | 0.03  | 32   | 503  | 444  | 385  | 2.70 | 3.7 | 0.5  | 2   | 84 | 0.2  | -0.24 | 6.3  | 150 | WICKSTROM DAIRIES, LP               | CA   |
| 1,731 SHAN-MAR IMPULS VIVIAN-ET          | 067124281       | 3K  |     | 281    | 3   | 68  | 734   | 0.02  | 38  | 0.04  | 32   | 422  | 379  | 351  | 3.05 | 3.7 | 1.0  | 2   | 87 | 0.5  | 2.06  | 2.7  | 150 | GARDNER MARK & SHANNON              | PA   |
| 1,732 GR EL REMANSO RESTORE 2040         | 117380785       | 3K  |     | 2040   | 0   | 60  | 1,120 | -0.08 | 33  | -0.05 | 31   | 410  | 410  | 411  | 2.86 | 3.9 | 1.3  | 0   |    | 0.3  | 0.74  | 5.8  | 150 | LOPEZ, RAFAEL LOPEZ                 | PR   |
| 1,733 DREAM VIEW CACTUS 782              | 116252775       | 8K  | F   | 782    | 4   | 75  | 1,057 | -0.03 | 45  | -0.03 | 31   | 397  | 391  | 389  | 2.91 | 3.2 | 1.3  | 1   | 90 | 0.8  | 1.39  | 6.7  | 150 | BLOUNT KEVIN & RONDA                | CA   |
| 1,734 BLUE MIST LOUIE LEEAH              | 117458231       | 8K  | C   | 1287   | 1   | 71  | 831   | 0.07  | 50  | 0.01  | 31   | 403  | 373  | 349  | 2.92 | 2.6 | 0.4  | 1   | 80 | 0.9  | 3.24  | 6.7  | 150 | GOMES, EDDIE                        | OR   |
| 1,735 CAL-MART BLADE FATMA 3911          | 117491830       | 6K  | F   | 3911   | 1   | 69  | 522   | 0.20  | 62  | 0.07  | 31   | 468  | 395  | 330  | 2.85 | 2.0 | 0.7  | 0   | 79 | 0.4  | 1.83  | 5.4  | 150 | MARTIN DAIRY LLC                    | OR   |
| 1,736 GR AHLEM GANNON PUMPKIN 32821      | 066622254       | 8K  | C   | 32821  | 3   | 72  | 969   | 0.04  | 52  | -0.03 | 30   | 375  | 365  | 359  | 2.92 | 2.1 | 0.2  | 2   | 85 | 0.9  | 2.57  | 5.4  | 150 | AHLEM, WILLIAM JR                   | CA   |
| 1,737 VALENTINO DORIE 737                | 117400667       | 3K  |     | 190    | 1   | 71  | 843   | -0.02 | 34  | 0.00  | 30   | 416  | 385  | 358  | 2.83 | 3.7 | -0.2 | 1   | 84 | 1.9  | 3.54  | 8.6  | 150 | MOYE, NEIL                          | NC   |
| 1,738 BARLASS TBONE BRIAR                | 840003004584949 | 3K  |     | 84949  | 2   | 72  | 454   | 0.10  | 40  | 0.07  | 30   | 453  | 385  | 330  | 2.98 | 3.1 | 1.9  | 2   | 77 | 1.2  | 1.87  | 10.1 | 150 | GRAMMER AND NOYES                   | OH   |
| 1,739 FOREST GLEN JADESTAR BERRY         | 067354471       | 3K  |     | 4471   | 1   | 66  | 853   | 0.05  | 50  | -0.01 | 29   | 417  | 399  | 387  | 2.95 | 3.3 | -0.1 | 0   |    | 1.3  | 2.74  | 8.2  | 150 | DEN HOED DAIRY INC                  | WA   |
| 1,740 FOREST GLEN ABES AMANDA            | 067323291       | 8K  | F   | 3291   | 2   | 71  | 609   | 0.08  | 44  | 0.04  | 29   | 477  | 423  | 375  | 2.86 | 3.4 | 0.8  | 1   | 83 | 0.3  | 0.94  | 5.8  | 150 | FOREST GLEN JERSEYS                 | OR   |
| 1,741 BELLWOOD IMPULS VIOLA              | 116381000       | 3K  |     | 175    | 2   | 65  | 466   | 0.13  | 47  | 0.07  | 29   | 496  | 435  | 388  | 3.01 | 5.0 | 0.9  | 3   | 85 | 0.2  | 1.18  | 3.5  | 150 | CAMP, ROGER D JR                    | LA   |
| 1,742 HILMAR VALET 23611                 | 067623611       | 6K  | F   | 23611  | 3   | 68  | 743   | 0.07  | 47  | 0.00  | 28   | 408  | 376  | 348  | 2.89 | 1.6 | 1.4  | 2   | 82 | 1.2  | 3.48  | 2.3  | 150 | AHLEM, CHARLES                      | CA   |
| 1,743 BW RENEGADE JEANNE U970            | 117353189       | 3K  |     | 11     | 1   | 70  | 688   | 0.13  | 55  | 0.02  | 28   | 469  | 432  | 402  | 2.93 | 4.3 | 0.2  | 1   | 82 | 1.3  | 1.61  | 7.8  | 150 | AHLEM FARMS PARTNERSHIP             | CA   |
| 1,744 GR MOON MEADOW UPPER CUT URBANE    | 117542675       | 3K  |     | 25     | 1   | 64  | 639   | 0.09  | 46  | 0.02  | 28   | 432  | 397  | 375  | 3.05 | 4.1 | 0.8  | 0   |    | 1.6  | 2.82  | 5.1  | 150 | MOON MEADOW JERSEYS                 | OR   |
| 1,745 SID J LEGAL KIM 22133              | 067422133       | 3K  |     | 22133  | 1   | 67  | 543   | 0.07  | 39  | 0.05  | 28   | 457  | 397  | 342  | 2.82 | 3.2 | 0.9  | 1   | 84 | 1.0  | 2.88  | 5.6  | 150 | AVILA, SIDNEY J                     | TX   |
| 1,746 SUNWEST ARTIST MBSB F3780          | 067033780       | 3K  |     | 3780   | 5   | 75  | 575   | -0.06 | 17  | 0.03  | 27   | 421  | 371  | 324  | 2.82 | 3.7 | 1.0  | 2   | 84 | 0.8  | 3.66  | 7.4  | 150 | SUNWEST JERSEY DAIRY                | CA   |
| 1,747 BW RENEGADE DORO W192              | 117505287       | 8K  | F   | 192    | 1   | 69  | 555   | 0.14  | 52  | 0.04  | 27   | 448  | 399  | 357  | 2.90 | 3.4 | 0.5  | 1   | 84 | 1.6  | 3.56  | 5.7  | 150 | LYLESTANLEY TRACE LLC               | FL   |
| 1,748 HAWARDEN IMPULS SUGARETTA          | 067099529       | 3K  |     | 529    | 2   | 69  | 225   | 0.25  | 55  | 0.10  | 27   | 483  | 398  | 328  | 3.00 | 3.1 | 1.1  | 2   | 90 | 1.0  | 2.85  | 5.7  | 150 | HAWARDEN JERSEYS INC                | ID   |
| 1,749 AHLEM HEADLINE MAGGIE 34976        | 069042182       | 3K  |     | 34976  | 2   | 72  | 845   | -0.04 | 32  | -0.02 | 25   | 418  | 414  | 414  | 2.96 | 4.9 | 1.1  | 2   | 85 | 1.3  | 3.08  | 9.3  | 150 | AHLEM, WILLIAM JR                   | CA   |
| 1,750 BW RENEGADE SARAH U789             | 117265237       | 6K  | F   | 261    | 1   | 71  | 608   | 0.13  | 52  | 0.02  | 25   | 425  | 398  | 383  | 3.07 | 3.4 | 0.2  | 1   | 82 | 2.0  | 4.26  | 7.2  | 150 | BRENTWOOD FARMS                     | CA   |

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| Name                                      | Reg #           | ----- GPTA ----- |     |        |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    | Owner | ST    |      |     |                                |      |
|---|-----------------|------------------|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|-------|-------|------|-----|--------------------------------|------|
|   |                 | GT               | JH1 | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                            | GJPI |
| 1,751 VALSIGNA KANOO 17032                | 117489989       | 3K               |     | 37032  | 1   | 67  | 518   | 0.09  | 40  | 0.02  | 23   | 404  | 375  | 355              | 3.02 | 3.9 | 0.6  | 1   | 85 | 1.4   | 5.51  | 5.9  | 150 | SHERMAN, ELSA                  | CA   |
| 1,752 VALSIGNA SPARKY 17493               | 117611663       | 3K               |     | 17493  | 1   | 67  | 412   | 0.13  | 43  | 0.05  | 23   | 416  | 372  | 341              | 3.04 | 3.2 | 0.4  | 1   | 75 | 1.4   | 5.27  | 7.5  | 150 | WICKSTROM DAIRIES, LP          | CA   |
| 1,753 JER-Z-BOYZ APPARITION 28320         | 117852558       | 8K               | F   | 28320  | 3   | 73  | 78    | 0.19  | 38  | 0.11  | 22   | 524  | 440  | 370              | 2.97 | 5.3 | 1.0  | 0   | 85 | 0.8   | 3.47  | 4.9  | 150 | JER-Z-BOYZ                     | CA   |
| 1,754 BW NASRALLAH SHERRY U1 1900         | 116839325       | 8K               | F   | 1900   | 2   | 73  | 484   | 0.04  | 31  | 0.02  | 21   | 434  | 406  | 385              | 2.98 | 4.6 | 0.8  | 2   | 87 | 1.2   | 4.34  | 7.2  | 150 | RIVER VALLEY FARM              | IL   |
| 1,755 FARIA BROTHERS ZUMA 100245          | 840003008321352 | 3K               |     | 100245 | 1   | 56  | 62    | 0.24  | 45  | 0.10  | 21   | 512  | 426  | 347              | 2.83 | 4.4 | 0.8  | 0   |    | 0.6   | 3.72  | 0.0  | 150 | FARIA DAIRY                    | AZ   |
| 1,756 AHLEM LEGAL PRIMROSE 37870          | 070049344       | 8K               | C   | 37870  | 0   | 65  | 838   | -0.10 | 20  | -0.05 | 20   | 387  | 398  | 405              | 2.84 | 4.4 | 1.0  | 0   | 81 | 1.7   | 5.35  | 7.2  | 150 | AHLEM, WILLIAM JR              | CA   |
| 1,757 AHLEM SENTRY TIFFANY 37436          | 070048910       | 3K               |     | 37436  | 1   | 69  | 31    | 0.18  | 34  | 0.10  | 20   | 522  | 433  | 349              | 2.77 | 4.7 | 0.3  | 0   | 83 | 1.7   | 4.97  | 10.7 | 150 | AHLEM, WILLIAM JR              | CA   |
| 1,758 K&K LEGAL 3287                      | 067293287       | 3K               |     | 3287   | 1   | 69  | 467   | 0.02  | 27  | 0.00  | 17   | 471  | 457  | 445              | 2.95 | 6.6 | 1.1  | 1   | 84 | 1.8   | 4.58  | 7.2  | 150 | KRUEGER ROBIN & KESSENICH JEFF | WI   |
| 1,759 AHLEM ACTION HARMONY 33374          | 066622807       | 8K               | F   | 33374  | 2   | 75  | 332   | 0.09  | 32  | 0.03  | 17   | 410  | 375  | 345              | 2.93 | 3.7 | 0.4  | 2   | 90 | 2.5   | 7.77  | 10.2 | 150 | AHLEM, WILLIAM JR              | CA   |
| 1,760 GR DUPAT GANNON 7602                | 067297602       | 3K               |     | 7602   | 2   | 72  | 1,841 | -0.18 | 51  | -0.08 | 49   | 259  | 275  | 299              | 2.96 | 0.4 | -0.6 | 1   | 82 | 1.0   | 0.54  | 7.0  | 149 | WICKSTROM JERSEY FARMS INC     | CA   |
| 1,761 BILTMORE BOLD FANNIE 3037           | 067363037       | 8K               | F   | 3037   | 1   | 73  | 1,656 | -0.20 | 36  | -0.07 | 46   | 288  | 300  | 323              | 3.04 | 1.1 | -0.7 | 1   | 79 | 1.0   | 1.65  | 8.1  | 149 | BILTMORE FARMS                 | NC   |
| 1,762 GR FARIA BROTHERS PLUS 102299       | 840003008535667 | 6K               | F   | 102299 | 1   | 65  | 1,620 | -0.05 | 65  | -0.07 | 45   | 325  | 340  | 365              | 3.06 | 0.7 | -1.1 | 0   |    | 0.7   | 0.61  | 2.9  | 149 | FARIA DAIRY                    | AZ   |
| 1,763 D&E VANDYKE 3827                    | 067333827       | 3K               |     | 3827   | 2   | 70  | 1,305 | 0.04  | 65  | -0.01 | 43   | 405  | 382  | 370              | 2.97 | 2.5 | -1.0 | 1   | 82 | 0.4   | -0.47 | 6.0  | 149 | D & E JERSEYS                  | TX   |
| 1,764 MS IMPULS 5785 G842                 | 117326873       | 3K               |     | 9485   | 1   | 66  | 1,194 | -0.02 | 51  | 0.00  | 43   | 390  | 362  | 353              | 3.14 | 2.6 | 0.6  | 0   | 85 | 0.3   | -0.68 | 4.8  | 149 | KELLER KIP & ROBIN             | NY   |
| 1,765 GR GRAMMER GANNON TAMARA            | 067233257       | 3K               |     | 3257   | 1   | 66  | 1,494 | -0.16 | 37  | -0.06 | 42   | 303  | 310  | 325              | 3.00 | 2.4 | -0.2 | 1   | 83 | 1.4   | 1.89  | 4.2  | 149 | GRAMMER JERSEY FARM LLC        | OH   |
| 1,766 K&M VALENTINO KAMI                  | 117918500       | 8K               | F   | 771    | 1   | 69  | 1,465 | -0.19 | 32  | -0.06 | 42   | 323  | 330  | 348              | 3.04 | 3.1 | -0.3 | 1   | 83 | 1.0   | 1.87  | 5.6  | 149 | BORGSMANN, KEN                 | IL   |
| 1,767 GR SHAN-MAR IMPULS DOTTIE           | 067124275       | 3K               |     | 275    | 3   | 71  | 1,184 | 0.00  | 53  | 0.00  | 41   | 416  | 390  | 378              | 3.02 | 3.2 | 0.8  | 2   | 79 | 0.1   | -1.32 | 4.8  | 149 | GARDNER MARK & SHANNON         | PA   |
| 1,768 AVI-LANCHE HONOR GRACE 5264         | 067375264       | 8K               | C   | 5264   | 0   | 63  | 1,565 | -0.04 | 64  | -0.08 | 40   | 341  | 369  | 407              | 3.10 | 2.0 | 0.1  | 0   |    | 0.4   | 0.20  | 5.5  | 149 | AVILA RICHARD & JENNIFER M     | TX   |
| 1,769 HAWARDEN PIXAR PUFF                 | 067099548       | 3K               |     | 548    | 2   | 72  | 1,213 | -0.05 | 45  | -0.01 | 40   | 296  | 281  | 281              | 3.09 | 0.1 | 0.7  | 1   | 90 | 0.7   | 2.71  | 6.2  | 149 | HAWARDEN JERSEYS INC           | ID   |
| 1,770 CLOVER PATCH BOLD CUBA              | 117674761       | 8K               | F   | 2088   | 1   | 69  | 1,077 | 0.01  | 54  | 0.00  | 38   | 383  | 360  | 351              | 3.05 | 1.7 | -0.4 | 0   | 84 | 1.5   | 2.00  | 7.0  | 149 | KOZAK, ALAN                    | OH   |
| 1,771 FOREST GLEN HEADLINE SALAMANDER     | 067354861       | 3K               |     | 4861   | 0   | 64  | 1,501 | -0.21 | 30  | -0.09 | 37   | 351  | 378  | 409              | 2.97 | 4.1 | 0.6  | 0   | 76 | 0.5   | -0.30 | 7.7  | 149 | BANSEN STANLEY K & DORA H      | OR   |
| 1,772 GR DUPAT CARL 8119                  | 067348119       | 3K               |     | 8119   | 1   | 69  | 1,221 | -0.09 | 42  | -0.04 | 36   | 295  | 292  | 296              | 2.99 | 1.4 | 0.1  | 1   | 84 | 1.7   | 4.79  | 5.5  | 149 | WICKSTROM JERSEY FARMS INC     | CA   |
| 1,773 GR HI-LAND GANNON MIRTH             | 067146604       | 8K               | C   | 6604   | 1   | 71  | 1,220 | -0.05 | 48  | -0.04 | 36   | 349  | 345  | 348              | 2.96 | 2.4 | -0.2 | 1   | 82 | 1.4   | 2.79  | 6.7  | 149 | CHAMBERLAIN, DAVID R           | NY   |
| 1,774 VALSIGNA SPARKY 17354               | 117553301       | 3K               |     | 17354  | 1   | 70  | 1,000 | 0.05  | 56  | -0.01 | 36   | 373  | 349  | 336              | 3.03 | 2.0 | -0.9 | 1   | 67 | 0.6   | 1.33  | 9.1  | 149 | WICKSTROM DAIRIES, LP          | CA   |
| 1,775 SR LYNDON KORKSCREW                 | 117661499       | 8K               | F   | 29     | 1   | 70  | 1,182 | 0.01  | 54  | -0.03 | 35   | 363  | 356  | 356              | 2.94 | 1.8 | 0.1  | 0   |    | 1.3   | 2.46  | 7.4  | 149 | SPRUCE ROW FARM                | PA   |
| 1,776 GR MULTI-ROSE PAULA QUEENIE         | 067223143       | 8K               | F   | 3143   | 1   | 72  | 1,158 | -0.13 | 28  | -0.03 | 35   | 320  | 313  | 314              | 2.99 | 2.5 | -0.2 | 2   | 91 | 1.5   | 4.26  | 7.3  | 149 | MULTI ROSE JERSEYS INC         | IA   |
| 1,777 MILLS VERMEER DEE                   | 117405055       | 8K               | F   | 7104   | 1   | 69  | 908   | 0.16  | 74  | 0.02  | 35   | 448  | 417  | 399              | 3.07 | 2.7 | 0.4  | 1   | 82 | 0.7   | 0.09  | 5.8  | 149 | MILLS JERSEY FARM LLC          | NV   |
| 1,778 PEARLMONT RESTORE DIXIE-ET          | 116341888       | 50K              | F   | 305    | 2   | 77  | 1,138 | -0.10 | 33  | -0.04 | 34   | 382  | 371  | 361              | 2.83 | 3.7 | -0.5 | 2   | 90 | 1.6   | 2.27  | 9.1  | 149 | RIVER VALLEY FARM              | IL   |
| 1,779 WAUNAKEE VALENTINO PRECIOUS 2867-ET | 069967264       | 3K               |     | 2867   | 1   | 70  | 1,047 | -0.03 | 42  | -0.02 | 34   | 395  | 374  | 355              | 2.85 | 2.6 | -0.8 | 1   | 80 | 1.4   | 3.14  | 8.8  | 149 | LAUFENBERG, GERALD             | WI   |
| 1,780 FOREST GLEN LOUIES APRICOT          | 067354793       | 6K               | F   | 4793   | 0   | 62  | 979   | 0.10  | 64  | 0.00  | 34   | 431  | 411  | 405              | 3.08 | 3.2 | 1.0  | 0   | 75 | 0.4   | 0.98  | 4.9  | 149 | FOREST GLEN JERSEYS            | OR   |
| 1,781 BW RENEGADE SPRING U489             | 117120833       | 3K               |     | 589    | 1   | 70  | 707   | 0.18  | 67  | 0.05  | 34   | 409  | 358  | 322              | 3.04 | 1.5 | -0.3 | 1   | 80 | 1.3   | 2.62  | 6.8  | 149 | BRENTWOOD FARMS                | CA   |
| 1,782 CLOVER PATCH IMPULS BOSSY           | 117771431       | 8K               | F   | 2242   | 1   | 66  | 833   | 0.05  | 48  | 0.02  | 33   | 436  | 402  | 380              | 3.02 | 3.4 | 0.9  | 0   | 82 | 0.7   | 1.27  | 5.1  | 149 | KOZAK, ALAN                    | OH   |
| 1,783 JER BEL TBONE LIBERTY               | 116978358       | 8K               |     | 701    | 2   | 72  | 549   | 0.19  | 62  | 0.08  | 33   | 414  | 342  | 283              | 2.96 | 1.4 | -0.1 | 3   | 90 | 1.9   | 3.08  | 9.7  | 149 | KING HOWARD & FAMILY           | OH   |
| 1,784 CAL-MART ALEXANDER BRENNA 3160      | 116950767       | 3K               |     | 3160   | 2   | 70  | 509   | 0.13  | 49  | 0.08  | 33   | 484  | 408  | 345              | 2.94 | 3.2 | 0.8  | 2   | 85 | 1.1   | 1.28  | 5.3  | 149 | MARTIN DAIRY LLC               | OR   |
| 1,785 BUTTERCREST LOTTO GUCCI             | 117630620       | 8K               | F   | 523    | 1   | 73  | 1,014 | -0.03 | 42  | -0.03 | 32   | 426  | 401  | 372              | 2.69 | 3.0 | -0.6 | 0   |    | 1.3   | 2.42  | 9.5  | 149 | BUTTERCREST JERSEYS            | OH   |
| 1,786 MILLS HEADLINE PAD                  | 117389207       | 3K               |     | 7057   | 1   | 69  | 993   | -0.08 | 31  | -0.02 | 32   | 353  | 339  | 332              | 2.95 | 3.1 | 0.6  | 1   | 88 | 1.5   | 3.74  | 8.0  | 149 | MILLS JERSEY FARM LLC          | NV   |
| 1,787 VALSIGNA SPARKY 17626               | 117612945       | 3K               |     | 17626  | 1   | 70  | 893   | 0.09  | 57  | 0.00  | 32   | 348  | 329  | 325              | 3.13 | 1.6 | 0.0  | 0   | 66 | 1.0   | 3.07  | 9.8  | 149 | WICKSTROM DAIRIES, LP          | CA   |
| 1,788 FARIA BROTHERS HEADLINE 101324      | 840003008534692 | 3K               |     | 101324 | 1   | 71  | 1,041 | -0.11 | 27  | -0.04 | 30   | 363  | 368  | 383              | 3.08 | 4.1 | 1.2  | 1   | 76 | 1.7   | 2.62  | 9.4  | 149 | FARIA DAIRY                    | AZ   |
| 1,789 EVANGELO ACTION LINDY               | 067079435       | 6K               | F   | 435    | 3   | 75  | 698   | 0.08  | 46  | 0.02  | 30   | 424  | 382  | 349              | 2.94 | 3.4 | -0.8 | 2   | 87 | 1.6   | 3.54  | 9.6  | 149 | EVANGELO, ANTHONY              | CA   |
| 1,790 HILMAR VERMEER 32012                | 067432012       | 3K               |     | 32012  | 1   | 70  | 631   | 0.15  | 57  | 0.04  | 30   | 446  | 400  | 366              | 3.02 | 3.1 | 0.8  | 1   | 76 | 0.8   | 1.28  | 8.0  | 149 | AHLEM, CHARLES                 | CA   |
| 1,791 SCHIRM NATHAN WHITNEY               | 067451026       | 8K               | F   | 1026   | 5   | 76  | 573   | 0.03  | 32  | 0.04  | 30   | 450  | 388  | 332              | 2.85 | 3.7 | 0.7  | 2   | 87 | 1.0   | 2.62  | 7.7  | 149 | SCHIRM PAUL & DAWN & FAMILY    | OH   |
| 1,792 JER-Z-BOYZ MAXIMUM 34507            | 117795662       | 3K               |     | 34507  | 1   | 67  | 519   | 0.18  | 58  | 0.05  | 29   | 462  | 405  | 359              | 2.98 | 3.3 | -0.6 | 1   | 84 | 1.1   | 3.18  | 5.6  | 149 | JER-Z-BOYZ                     | CA   |
| 1,793 PR VALSIGNA KILOWATT 18235          | 117730067       | 6K               | F   | 18235  | 0   | 63  | 848   | 0.02  | 42  | -0.01 | 28   | 408  | 391  | 379              | 2.94 | 4.1 | 0.6  | 0   | 71 | 0.3   | 2.80  | 5.3  | 149 | WICKSTROM DAIRIES, LP          | CA   |
| 1,794 VALSIGNA CELEBRITY 17867            | 117725458       | 3K               |     | 17867  | 1   | 71  | 675   | 0.07  | 44  | 0.02  | 28   | 396  | 358  | 328              | 2.92 | 2.3 | 0.1  | 0   |    | 1.4   | 3.93  | 8.0  | 149 | WICKSTROM DAIRIES, LP          | CA   |
| 1,795 TOLLENAAR IMPULS 3160-ET            | 061809207       | 3K               |     | 3160   | 5   | 74  | 464   | 0.08  | 35  | 0.06  | 28   | 482  | 414  | 353              | 2.85 | 4.6 | 0.6  | 2   | 82 | 0.7   | 2.43  | 5.1  | 149 | TOLLENAAR JERSEYS              | CA   |
| 1,796 VALSIGNA SPARKY 17250               | 117552298       | 3K               |     | 17250  | 1   | 68  | 848   | 0.02  | 43  | -0.02 | 27   | 429  | 416  | 409              | 2.96 | 4.0 | 0.4  | 1   | 76 | 0.7   | 2.00  | 6.3  | 149 | WICKSTROM DAIRIES, LP          | CA   |
| 1,797 JER BEL IMPULS DORIE                | 116611437       | 3K               |     | 650    | 3   | 72  | 400   | 0.19  | 52  | 0.07  | 27   | 459  | 391  | 331              | 2.89 | 2.6 | -0.1 | 2   | 91 | 1.2   | 3.59  | 6.4  | 149 | KING HOWARD & FAMILY           | OH   |
| 1,798 SCHULTZ HEADLINE PARADISE           | 067086534       | 8K               | F   | 34     | 1   | 71  | 1,198 | -0.17 | 22  | -0.09 | 25   | 360  | 397  | 433              | 2.95 | 5.4 | 0.7  | 0   |    | 1.8   | 3.68  | 8.5  | 149 | GREEN, SADIE                   | MI   |
| 1,799 VALSIGNA SPARKY 17341               | 117553187       | 3K               |     | 17341  | 1   | 69  | 461   | 0.14  | 47  | 0.05  | 25   | 457  | 407  | 364              | 2.91 | 3.6 | 0.5  | 1   | 72 | 0.6   | 2.71  | 8.0  | 149 | WICKSTROM DAIRIES, LP          | CA   |
| 1,800 AHLEM TBONE MIRANDY 33417           | 066622850       | 3K               |     | 33417  | 2   | 73  | 751   | -0.02 | 28  | -0.02 | 22   | 385  | 382  | 385              | 2.99 | 4.7 | 0.6  | 1   | 85 | 1.6   | 4.71  | 11.0 | 149 | AHLEM, WILLIAM JR              | CA   |

November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      |       |     |      | Owner                                      | ST |
|---|-----------------|----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|-----|------|--|----|
|   |                 |    |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   | GFI | GJPI |  |    |
| 1.801 STAR MAYBELINE                    | 117387072       | 8K | F   | 1284             | 1   | 69  | 401   | 0.18  | 52  | 0.04  | 22   | 457  | 410  | 370              | 2.94 | 3.7 | -0.2 | 1   | 80 | 1.4  | 4.56  | 5.9 | 149  | WOODSTOCK DAIRY                            | OR |
| 1.802 WILL DO JACINTO HANA              | 116472638       | 3K |     | 230              | 3   | 74  | 333   | 0.15  | 42  | 0.06  | 22   | 439  | 396  | 369              | 3.15 | 4.3 | 0.4  | 2   | 87 | 2.0  | 5.61  | 9.6 | 149  | ETTINGER EDWIN R & CHERYL F                | SC |
| 1.803 JER-Z-BOYZ DIESEL 35031           | 117495964       | 3K |     | 35031            | 1   | 67  | 31    | 0.31  | 56  | 0.11  | 22   | 555  | 463  | 380              | 2.86 | 4.6 | 1.2  | 1   | 82 | 0.6  | 1.33  | 6.5 | 149  | JER-Z-BOYZ                                 | CA |
| 1.804 FOREST GLEN MILITIAS JULY         | 067129332       | 3K |     | 9332             | 4   | 75  | 363   | 0.09  | 34  | 0.04  | 21   | 456  | 413  | 379              | 2.99 | 4.8 | 1.5  | 2   | 90 | 1.3  | 4.16  | 7.8 | 149  | BANSEN, DAN K                              | OR |
| 1.805 FOREST GLEN ZUMAS JESSIE          | 067354844       | 8K | F   | 4844             | 0   | 62  | 323   | 0.16  | 44  | 0.05  | 21   | 483  | 423  | 364              | 2.77 | 3.8 | 1.3  | 0   | 72 | 0.7  | 3.46  | 5.4 | 149  | BANSEN, DAN K                              | OR |
| 1.806 HAWARDEN PREMIER STAR             | 067125608       | 3K |     | 608              | 1   | 65  | 80    | 0.26  | 51  | 0.09  | 21   | 525  | 446  | 380              | 2.95 | 4.6 | 1.2  | 0   | 80 | 1.3  | 2.80  | 7.5 | 149  | HAWARDEN JERSEYS INC                       | ID |
| 1.807 YOSEMITE LEGAL QUE P23284         | 840003008202929 | 3K |     | 23284            | 1   | 68  | 457   | 0.09  | 36  | 0.02  | 20   | 446  | 416  | 394              | 2.99 | 4.5 | 1.9  | 1   | 80 | 1.4  | 4.41  | 5.6 | 149  | YOSEMITE JERSEY DAIRY                      | CA |
| 1.808 DUPAT HEADLINE 8920               | 067148920       | 3K |     | 8920             | 0   | 65  | 645   | 0.02  | 33  | -0.03 | 19   | 467  | 462  | 457              | 2.90 | 6.0 | 1.3  | 0   | 81 | 1.2  | 2.75  | 8.3 | 149  | WICKSTROM JERSEY FARMS INC                 | CA |
| 1.809 VALSIGNA KARBALA 16996            | 117489662       | 3K |     | 16996            | 1   | 70  | 566   | 0.08  | 42  | -0.01 | 19   | 412  | 392  | 369              | 2.80 | 3.3 | 0.5  | 1   | 78 | 1.3  | 5.09  | 8.8 | 149  | WICKSTROM DAIRIES, LP                      | CA |
| 1.810 HILMAR AL ANBAR 26885             | 067326885       | 6K | F   | 26885            | 2   | 73  | 458   | 0.15  | 49  | 0.01  | 19   | 421  | 394  | 370              | 2.90 | 3.4 | 0.4  | 2   | 88 | 2.5  | 6.50  | 6.9 | 149  | AHLEM, CHARLES                             | CA |
| 1.811 AHLEM HEADLINE DANIELA 37424      | 070048898       | 8K | F   | 37424            | 1   | 71  | 789   | -0.08 | 21  | -0.06 | 17   | 389  | 409  | 428              | 2.94 | 5.5 | 1.7  | 1   | 79 | 1.4  | 4.81  | 9.1 | 149  | AHLEM, WILLIAM JR                          | CA |
| 1.812 AHLEM ACTION WINSOME 33421        | 066622854       | 8K | C   | 33421            | 2   | 74  | 184   | 0.16  | 39  | 0.04  | 13   | 464  | 422  | 380              | 2.82 | 4.5 | 0.9  | 2   | 91 | 1.9  | 6.58  | 8.1 | 149  | GRAYBILL PAUL AND KILGUS TRENT             | IL |
| 1.813 HEARTLAND VITO CANDACE            | 067232211       | 3K |     | 2211             | 1   | 69  | 1,828 | -0.15 | 55  | -0.06 | 54   | 336  | 330  | 333              | 2.92 | 0.7 | -1.9 | 1   | 79 | 0.5  | -1.41 | 7.1 | 148  | HEARTLAND JERSEYS                          | KS |
| 1.814 SCHULTZ LOUIE CINDY               | 067189197       | 3K |     | 9197             | 2   | 71  | 1,650 | -0.17 | 45  | -0.04 | 52   | 284  | 272  | 275              | 3.07 | 0.4 | -0.9 | 1   | 78 | 0.8  | 0.04  | 8.3 | 148  | HUFFARD JAMES S III & JAMES S IV           | VA |
| 1.815 PR FARIA BROTHERS MATINEE 49419   | 840003005828309 | 3K |     | 49419            | 2   | 67  | 1,876 | -0.11 | 66  | -0.09 | 49   | 299  | 324  | 357              | 3.01 | 0.2 | -0.3 | 2   | 80 | 0.5  | -1.59 | 5.3 | 148  | FARIA BROS DAIRIES                         | TX |
| 1.816 HILMAR SPIKE 26981                | 067326981       | 6K | F   | 26981            | 2   | 73  | 1,317 | -0.11 | 41  | 0.00  | 47   | 374  | 337  | 314              | 3.00 | 1.7 | -1.2 | 2   | 80 | 1.3  | 0.81  | 8.6 | 148  | AHLEM, CHARLES                             | CA |
| 1.817 WILL DO STONE FLING               | 117454312       | 8K | C   | 472              | 1   | 71  | 1,101 | -0.03 | 46  | 0.03  | 44   | 356  | 306  | 270              | 2.95 | 0.9 | -1.0 | 1   | 81 | 1.1  | 1.98  | 6.8 | 148  | CLEVELAND, CORY                            | LA |
| 1.818 HEARTLAND IMPULS BLODWYN          | 067251961       | 8K | F   | 1961             | 3   | 73  | 1,111 | 0.01  | 55  | 0.01  | 42   | 444  | 398  | 362              | 2.88 | 2.0 | 0.3  | 2   | 83 | 0.1  | -1.43 | 6.4 | 148  | HEARTLAND JERSEYS                          | KS |
| 1.819 SCOTCH VIEW LEGAL ELECTRA         | 117119853       | 3K |     | 1670             | 2   | 70  | 1,394 | -0.17 | 31  | -0.04 | 41   | 339  | 337  | 343              | 2.99 | 2.3 | 0.3  | 1   | 81 | 1.2  | 1.59  | 7.8 | 148  | SCOTCH VIEW FARMS                          | NY |
| 1.820 GR WAUNAKEE DALE PRISSY 2305      | 066438831       | 3K |     | 2305             | 2   | 70  | 1,393 | -0.20 | 27  | -0.05 | 41   | 274  | 277  | 291              | 3.06 | 2.0 | -0.7 | 3   | 86 | 1.3  | 3.87  | 5.7 | 148  | LAUFENBERG, GERALD                         | WI |
| 1.821 SUNWEST RASMUS MOR H6922          | 067046922       | 3K |     | 6922             | 4   | 74  | 1,169 | -0.13 | 29  | -0.01 | 41   | 365  | 334  | 315              | 2.98 | 2.1 | -0.3 | 2   | 88 | 1.3  | 1.79  | 6.6 | 148  | SUNWEST JERSEY DAIRY                       | CA |
| 1.822 VALSIGNA ICE 18383                | 117776511       | 6K | F   | 18383            | 0   | 67  | 1,071 | 0.08  | 66  | 0.01  | 41   | 391  | 354  | 332              | 3.04 | 0.9 | -0.9 | 0   | 80 | 1.2  | 1.22  | 9.1 | 148  | WICKSTROM DAIRIES, LP                      | CA |
| 1.823 ALL LYNNS VIBRANT WHISKY-ET       | 117222713       | 3K |     | 1365             | 1   | 68  | 1,344 | -0.11 | 39  | -0.05 | 40   | 375  | 369  | 370              | 2.92 | 3.3 | -0.2 | 1   | 76 | 0.1  | -0.41 | 6.4 | 148  | ALLEN, TOMMY                               | WI |
| 1.824 MS VERNON 3408 G363               | 117134030       | 8K | F   | 7363             | 1   | 69  | 1,258 | 0.05  | 67  | -0.03 | 40   | 388  | 371  | 362              | 2.94 | 1.2 | -0.7 | 1   | 75 | 0.7  | 0.42  | 4.9 | 148  | MOUNTAIN SHADOW DAIRY                      | AZ |
| 1.825 FOREST GLEN PLUS JADE             | 067323795       | 3K |     | 3795             | 1   | 69  | 1,286 | -0.09 | 43  | -0.04 | 39   | 328  | 326  | 335              | 3.07 | 1.6 | 0.0  | 1   | 75 | 1.3  | 2.54  | 6.8 | 148  | BANSEN, DAN K                              | OR |
| 1.826 DEN-KEL MATINEE JELLY ONE-ET      | 067049569       | 3K |     | 569              | 4   | 71  | 1,046 | 0.13  | 73  | 0.01  | 39   | 453  | 412  | 378              | 2.85 | 1.9 | -0.1 | 2   | 83 | -0.2 | -1.54 | 4.3 | 148  | OOMS, MICHAEL AREND                        | NY |
| 1.827 K&K RENEGADE 3463                 | 067203463       | 3K |     | 3463             | 1   | 69  | 553   | 0.19  | 62  | 0.10  | 39   | 419  | 327  | 257              | 3.04 | 0.9 | 0.8  | 1   | 82 | 1.0  | 0.39  | 7.9 | 148  | VOS BEN & AMY, MILLER JASON & HARTWIG MATT | WI |
| 1.828 GR SLYE RIDGE IMPULSIVE DARCI     | 117052378       | 3K |     | 1147             | 2   | 68  | 1,195 | -0.09 | 39  | -0.02 | 38   | 362  | 346  | 339              | 2.97 | 3.0 | 0.0  | 1   | 84 | 0.8  | 1.77  | 6.6 | 148  | FERRISDALE FARM                            | VT |
| 1.829 SUN VALLEY IMPULS LITTLE LAKE     | 117109276       | 3K |     | 2541             | 2   | 69  | 1,106 | -0.05 | 41  | -0.01 | 38   | 394  | 369  | 353              | 2.96 | 3.2 | 0.2  | 1   | 78 | 1.3  | 1.17  | 5.9 | 148  | SUN VALLEY FARM                            | OR |
| 1.830 CLOVER PATCH BOLD DUNALI          | 117676736       | 8K | F   | 2137             | 1   | 69  | 936   | 0.02  | 49  | 0.02  | 37   | 366  | 327  | 302              | 3.04 | 1.3 | -0.1 | 0   | 83 | 1.4  | 2.81  | 7.2 | 148  | KOZAK, ALAN                                | OH |
| 1.831 D&E MERCHANT VIRTUE 22233-ET      | 067422233       | 3K |     | 22233            | 0   | 63  | 900   | 0.13  | 64  | 0.03  | 37   | 363  | 325  | 304              | 3.09 | 1.5 | -1.7 | 1   | 82 | 1.7  | 3.82  | 7.2 | 148  | MULTI ROSE JERSEYS INC                     | IA |
| 1.832 FOREST GLEN ABES PHANTOM-P        | 067048799       | 3K |     | 8799             | 5   | 75  | 737   | 0.05  | 43  | 0.06  | 37   | 395  | 331  | 282              | 2.98 | 1.8 | 0.4  | 2   | 91 | 0.6  | 1.18  | 6.3 | 148  | BANSEN, DAN K                              | OR |
| 1.833 MVF TBONE VALORY 1701-ET          | 067181701       | 8K | F   | 1701             | 1   | 71  | 487   | 0.17  | 54  | 0.11  | 37   | 424  | 335  | 267              | 3.07 | 1.7 | 0.0  | 1   | 80 | 1.7  | 2.03  | 8.2 | 148  | RHEIN, ERIKA D                             | PA |
| 1.834 D&E ABE HOLLY 21597               | 067521597       | 3K |     | 21597            | 2   | 72  | 475   | 0.18  | 55  | 0.10  | 37   | 459  | 363  | 287              | 2.99 | 1.8 | -0.1 | 3   | 87 | 0.8  | 0.67  | 7.9 | 148  | D & E JERSEYS                              | TX |
| 1.835 GR FARIA BROTHERS RENEGADE 102548 | 840003008535916 | 3K |     | 102548           | 1   | 68  | 947   | 0.11  | 65  | 0.02  | 36   | 413  | 377  | 353              | 2.99 | 1.7 | -0.1 | 0   |    | 1.2  | 1.15  | 8.0 | 148  | FARIA DAIRY                                | AZ |
| 1.836 ORTHRIDGE IMPULS ELDA             | 067127814       | 3K |     | 814              | 1   | 66  | 589   | 0.12  | 51  | 0.07  | 36   | 459  | 383  | 322              | 2.98 | 3.0 | 0.2  | 1   | 79 | 0.7  | 0.73  | 6.1 | 148  | ORTHRIDGE FARMS                            | WI |
| 1.837 BUTTERCREST LEGAL IZZY            | 117630518       | 8K | C   | 511              | 1   | 69  | 1,247 | -0.17 | 24  | -0.05 | 35   | 325  | 333  | 350              | 3.03 | 3.1 | 0.7  | 0   |    | 1.4  | 3.26  | 6.3 | 148  | COOPERRIDER & SONS                         | OH |
| 1.838 SCOTCH VIEW IMPACT BUNNY          | 116383365       | 6K | F   | 8571             | 2   | 71  | 1,208 | 0.03  | 60  | -0.04 | 35   | 405  | 400  | 399              | 2.91 | 2.3 | -0.8 | 2   | 87 | 0.9  | 1.06  | 5.7 | 148  | GARDNER MARK & SHANNON                     | PA |
| 1.839 HILMAR ABE 18101                  | 067218101       | 6K | F   | 18101            | 4   | 75  | 958   | 0.00  | 44  | 0.00  | 35   | 440  | 408  | 383              | 2.90 | 3.7 | 0.1  | 2   | 81 | -0.2 | -0.74 | 6.0 | 148  | AHLEM, CHARLES                             | CA |
| 1.840 TOLLENAAR HARLEY 5410             | 065883814       | 3K |     | 5410             | 1   | 65  | 726   | 0.06  | 44  | 0.04  | 35   | 432  | 374  | 327              | 2.93 | 2.8 | 0.5  | 2   | 77 | 0.1  | 0.37  | 5.4 | 148  | TOLLENAAR JERSEYS                          | CA |
| 1.841 MAGNOLIA JEVON LOOLOO180          | 067149180       | 3K |     | 180              | 1   | 68  | 1,405 | 0.00  | 63  | -0.08 | 34   | 435  | 454  | 471              | 2.84 | 3.6 | 0.2  | 1   | 84 | 0.6  | -0.71 | 7.0 | 148  | MISSISSIPPI STATE UNIVERSITY               | MS |
| 1.842 CAL-MART LOUIE GAY 5037           | 067125037       | 3K |     | 5037             | 1   | 68  | 1,275 | -0.03 | 53  | -0.06 | 34   | 350  | 370  | 400              | 3.10 | 3.4 | -0.1 | 0   | 79 | 1.1  | 2.22  | 6.9 | 148  | MARTIN DAIRY LLC                           | OR |
| 1.843 GOFF JACINTO 8190                 | 067178190       | 3K |     | 8190             | 4   | 69  | 978   | -0.07 | 31  | -0.01 | 34   | 364  | 342  | 330              | 2.98 | 3.0 | -0.3 | 2   | 88 | 1.5  | 3.89  | 7.9 | 148  | GOFF, BUSTER                               | NM |
| 1.844 JER-Z-BOYZ BELVEDERE 30819        | 117821079       | 3K |     | 30819            | 2   | 72  | 628   | 0.17  | 60  | 0.06  | 34   | 458  | 388  | 331              | 2.93 | 2.4 | -0.3 | 2   | 82 | 0.6  | 1.43  | 8.0 | 148  | JER-Z-BOYZ                                 | CA |
| 1.845 FOREST GLEN PLUS SNACK            | 067354096       | 8K | F   | 4096             | 1   | 72  | 1,083 | -0.06 | 38  | -0.03 | 33   | 303  | 301  | 311              | 3.07 | 1.4 | 0.3  | 0   | 86 | 1.3  | 3.86  | 9.0 | 148  | FOREST GLEN JERSEYS                        | OR |
| 1.846 FARIA BROTHERS ACE 65395          | 840003009138183 | 6K | F   | 65395            | 2   | 73  | 971   | 0.10  | 65  | -0.01 | 33   | 370  | 357  | 358              | 3.11 | 1.8 | -0.3 | 0   | 86 | 1.0  | 2.75  | 7.5 | 148  | FARIA BROS DAIRIES                         | TX |
| 1.847 JCY IMPULS 19512                  | 840003005083665 | 3K |     | 19512            | 3   | 71  | 868   | 0.03  | 46  | 0.01  | 33   | 416  | 390  | 380              | 3.12 | 3.9 | 0.6  | 2   | 82 | 0.1  | 1.46  | 5.2 | 148  | AHLEM BROTHERS                             | CA |
| 1.848 D&E ABE ACACIA 21591              | 067521591       | 3K |     | 21591            | 3   | 71  | 847   | 0.05  | 50  | 0.01  | 33   | 428  | 386  | 351              | 2.86 | 2.6 | 0.3  | 2   | 84 | 0.1  | -0.22 | 6.3 | 148  | D & E JERSEYS                              | TX |
| 1.849 PEARLMONT ACTION DO GUMDROP       | 067104349       | 3K |     | 1349             | 1   | 69  | 1,453 | -0.13 | 43  | -0.10 | 32   | 300  | 337  | 372              | 2.91 | 2.4 | 0.2  | 1   | 86 | 1.9  | 4.13  | 6.6 | 148  | BACHELOR, LAYNE                            | IN |
| 1.850 HEARTLAND SIXTYNINE ASHTON        | 067262469       | 6K | F   | 2469             | 1   | 64  | 750   | 0.14  | 60  | 0.03  | 32   | 461  | 414  | 374              | 2.88 | 3.5 | -0.9 | 0   | 82 | 0.7  | 1.09  | 5.6 | 148  | HEARTLAND JERSEYS                          | KS |

# November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #           | GT | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      |      | ----- TYPE ----- |      |      |     |    |      |       |      |      |                         | Owner | ST |
|--|-----------------|----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------|------------------|------|------|-----|----|------|-------|------|------|-------------------------|-------|----|
|  |                 |    |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS              | PL   | DPR  | Rec | FS | PTAT | JUI   | GFI  | GJPI |                         |       |    |
| 1.851 CAL-MART MAXIMUS BONNE 9729      | 115708406       | GI |     | 163              | 4   | 66  | 325   | 0.20  | 51  | 0.11  | 32   | 441  | 353  | 286  | 3.09             | 2.3  | 0.1  | 2   | 88 | 1.0  | 3.16  | 3.2  | 148  | MARTIN DAIRY LLC        | OR    |    |
| 1.852 TC 1592 PLUS KRIS                | 117578449       | 8K | C   | 1592             | 1   | 71  | 1,126 | -0.12 | 30  | -0.05 | 31   | 274  | 279  | 287  | 2.92             | 0.9  | 0.3  | 1   | 87 | 2.2  | 5.71  | 8.1  | 148  | LUTZ CAMERON & KRISTA   | NC    |    |
| 1.853 BARHAMS BLITZEN BEAUTY           | 117616284       | 8K | F   | 772              | 1   | 69  | 917   | 0.07  | 56  | -0.01 | 31   | 375  | 353  | 338  | 2.95             | 2.0  | -0.4 | 1   | 84 | 1.5  | 3.90  | 6.9  | 148  | BARHAM BROS             | TN    |    |
| 1.854 BAR MB SPARKY 6278 SPRING        | 067256278       | 6K | F   | 6278             | 1   | 70  | 868   | -0.05 | 30  | 0.00  | 31   | 344  | 317  | 298  | 2.96             | 2.7  | -0.3 | 1   | 73 | 0.6  | 4.24  | 6.3  | 148  | BOER JERSEYS            | TX    |    |
| 1.855 SUNWEST ABE BOLD J22969          | 840003004261539 | 3K |     | 22969            | 3   | 73  | 473   | 0.12  | 45  | 0.07  | 31   | 501  | 421  | 348  | 2.80             | 3.7  | 0.1  | 3   | 84 | -0.1 | 0.40  | 6.8  | 148  | SUNWEST JERSEY DAIRY    | CA    |    |
| 1.856 TOLLENAAR HEADLINE 6651B895-ET   | 840003007398729 | 3K |     | 6651             | 0   | 64  | 1,019 | -0.06 | 35  | -0.03 | 30   | 400  | 404  | 417  | 3.07             | 5.4  | 0.2  | 1   | 87 | 1.3  | 2.33  | 7.2  | 148  | TOLLENAAR JERSEYS       | CA    |    |
| 1.857 AHLEM IATOLA MANDY 32626         | 066622059       | 8K | F   | 32626            | 3   | 75  | 825   | 0.06  | 51  | 0.00  | 30   | 404  | 370  | 340  | 2.84             | 2.0  | -0.7 | 2   | 90 | 1.9  | 4.18  | 8.5  | 148  | AHLEM, WILLIAM JR       | CA    |    |
| 1.858 CAL-MART LYNDON SHANE 5171       | 067385171       | 6K | F   | 5171             | 1   | 68  | 652   | 0.01  | 33  | 0.04  | 30   | 392  | 351  | 327  | 3.11             | 2.9  | 1.2  | 0   | 83 | 1.3  | 3.86  | 6.7  | 148  | MARTIN DAIRY LLC        | OR    |    |
| 1.859 HEARTLAND ECLIPSES OZONE         | 067262361       | 6K | F   | 2361             | 1   | 71  | 622   | 0.17  | 59  | 0.04  | 30   | 401  | 348  | 306  | 2.95             | 1.8  | -0.7 | 1   | 86 | 2.0  | 4.59  | 9.1  | 148  | ROWLEY, STEVE           | MS    |    |
| 1.860 AHLEM LEXINGTON ROSIE 18551      | 063729960       | 3K |     | 18551            | 5   | 73  | 524   | 0.15  | 51  | 0.06  | 30   | 468  | 400  | 340  | 2.83             | 2.0  | 0.4  | 2   | 88 | 0.8  | 1.85  | 6.0  | 148  | AHLEM, WILLIAM JR       | CA    |    |
| 1.861 BUTTERCREST ECLIPSE GUSSY-P      | 117630648       | 6K | F   | 525              | 1   | 71  | 887   | 0.00  | 40  | -0.01 | 29   | 395  | 380  | 371  | 2.96             | 3.8  | 0.2  | 0   |    | 1.6  | 3.37  | 7.8  | 148  | BUTTERCREST JERSEYS     | OH    |    |
| 1.862 GR FARIA BROTHERS VERMEER 64375  | 840003006262826 | 6K | F   | 64375            | 2   | 66  | 738   | 0.17  | 64  | 0.01  | 29   | 460  | 427  | 402  | 2.96             | 3.1  | 0.7  | 0   |    | 0.6  | 0.64  | 2.7  | 148  | FARIA BROS DAIRIES      | TX    |    |
| 1.863 COLD RUN IMPULS TIPPY-ET         | 117410374       | 3K |     | 582              | 1   | 68  | 521   | 0.09  | 40  | 0.07  | 29   | 463  | 405  | 360  | 2.98             | 4.0  | 0.3  | 1   | 85 | 1.0  | 2.71  | 5.6  | 148  | COLD RUN JERSEYS LLC    | OH    |    |
| 1.864 FARIA BROTHERS KANOO 88592       | 840003004634231 | 3K |     | 88592            | 1   | 67  | 706   | 0.08  | 48  | 0.01  | 28   | 402  | 372  | 354  | 3.03             | 3.2  | 0.6  | 1   | 80 | 0.8  | 2.69  | 6.0  | 148  | FARIA BROS DAIRIES      | TX    |    |
| 1.865 DIAMOND S IATOLA PALACIO         | 067060321       | 8K | F   | 1294             | 4   | 75  | 458   | 0.13  | 43  | 0.07  | 28   | 479  | 412  | 352  | 2.84             | 2.9  | 0.2  | 2   | 87 | 0.5  | 2.01  | 8.1  | 148  | DIAMOND S FARM          | MN    |    |
| 1.866 DEBOER TBONE 77 M6568            | 116363307       | 3K |     | 6568             | 3   | 72  | 529   | 0.07  | 36  | 0.04  | 27   | 411  | 362  | 321  | 2.93             | 3.8  | -0.6 | 2   | 87 | 1.6  | 5.24  | 8.9  | 148  | DEBOER, NICO            | TX    |    |
| 1.867 JER-Z-BOYZ LEGACY 32273          | 117497836       | 8K | F   | 32273            | 2   | 71  | 405   | 0.14  | 45  | 0.07  | 27   | 461  | 390  | 325  | 2.83             | 3.0  | 0.7  | 1   | 83 | 0.8  | 2.69  | 5.8  | 148  | JER-Z-BOYZ              | CA    |    |
| 1.868 BRJ SULTAN SIGNATURE BESSIE R-70 | 067042670       | 3K |     | 2670             | 5   | 76  | 320   | 0.19  | 50  | 0.08  | 27   | 483  | 405  | 338  | 2.92             | 3.5  | -0.3 | 3   | 85 | 1.1  | 3.26  | 8.8  | 148  | BUSH RIVER JERSEYS      | SC    |    |
| 1.869 D&E CHARMER 3897                 | 067333897       | 3K |     | 3897             | 2   | 71  | 711   | 0.09  | 49  | 0.01  | 26   | 441  | 403  | 364  | 2.73             | 2.9  | 0.5  | 2   | 87 | 1.2  | 3.08  | 7.6  | 148  | D & E JERSEYS           | TX    |    |
| 1.870 JER BEL COBRA LINDY              | 115320198       | 8K | F   | 507              | 5   | 77  | 507   | 0.10  | 44  | 0.04  | 26   | 412  | 365  | 330  | 3.00             | 3.6  | 1.1  | 2   | 91 | 1.8  | 4.17  | 7.9  | 148  | KING HOWARD & FAMILY    | OH    |    |
| 1.871 AHLEM CELEBRITY CORA 34740       | 069041946       | 8K | F   | 34740            | 2   | 75  | 906   | -0.03 | 36  | -0.04 | 25   | 321  | 320  | 319  | 2.89             | 2.1  | 0.0  | 2   | 88 | 2.3  | 6.78  | 10.3 | 148  | AHLEM, WILLIAM JR       | CA    |    |
| 1.872 HI-LAND BLAIR MALL               | 067075311       | 3K |     | 5311             | 4   | 74  | 830   | 0.02  | 41  | -0.02 | 25   | 438  | 423  | 406  | 2.80             | 3.7  | 0.8  | 2   | 90 | 1.1  | 2.97  | 8.3  | 148  | CHAMBERLAIN, DAVID R    | NY    |    |
| 1.873 CAL-MART LOTTO DEBBIE 3436       | 117136733       | 3K |     | 3436             | 1   | 70  | 718   | 0.17  | 65  | -0.01 | 25   | 499  | 470  | 438  | 2.76             | 4.6  | -0.1 | 1   | 79 | 1.2  | 1.36  | 8.0  | 148  | MARTIN DAIRY LLC        | OR    |    |
| 1.874 GR JER-Z-BOYZ LEGACY 16709       | 117771954       | 8K | F   | 16709            | 5   | 68  | 760   | 0.03  | 40  | -0.01 | 24   | 426  | 421  | 424  | 3.07             | 5.0  | 1.3  | 0   | 84 | 0.6  | 2.31  | 7.6  | 148  | JER-Z-BOYZ              | CA    |    |
| 1.875 DUTCH HOLLOW ZUMA DEANNA         | 067184516       | 8K | C   | 4516             | 1   | 66  | 541   | 0.12  | 48  | 0.02  | 24   | 479  | 429  | 379  | 2.73             | 3.4  | 1.2  | 1   | 76 | -0.1 | 2.13  | 3.5  | 148  | CHITTENDEN, DONNA OOMS  | NY    |    |
| 1.876 AHLEM IATOLA JAN 32651           | 066622084       | 8K | F   | 32651            | 3   | 75  | 391   | 0.18  | 52  | 0.04  | 23   | 401  | 352  | 312  | 2.95             | 1.6  | 0.1  | 2   | 79 | 2.2  | 6.46  | 9.6  | 148  | AHLEM, WILLIAM JR       | CA    |    |
| 1.877 VALSIGNA KILOWATT 18090          | 117727423       | 6K | F   | 18090            | 1   | 71  | 742   | 0.03  | 41  | -0.03 | 22   | 401  | 400  | 402  | 2.98             | 4.1  | 1.0  | 0   | 72 | 1.3  | 4.41  | 7.8  | 148  | WICKSTROM DAIRIES, LP   | CA    |    |
| 1.878 CAL-MART ZUMA FIMULA 5270        | 067245270       | 6K | F   | 5270             | 1   | 68  | 405   | 0.07  | 31  | 0.04  | 22   | 504  | 450  | 395  | 2.74             | 5.3  | 0.8  | 0   | 76 | 0.3  | 1.80  | 5.2  | 148  | MARTIN DAIRY LLC        | OR    |    |
| 1.879 TC 1601 HEADLINE BINGO-ET        | 117578391       | 8K | F   | 1601             | 1   | 72  | 907   | -0.19 | 7   | -0.06 | 20   | 404  | 424  | 440  | 2.87             | 6.5  | 1.2  | 0   | 85 | 1.5  | 4.74  | 8.2  | 148  | LUTZ, KEVIN ERIC        | NC    |    |
| 1.880 AHLEM ACTION TIFFANY 17627       | 063433924       | 3K |     | 17627            | 5   | 76  | 112   | 0.09  | 22  | 0.08  | 20   | 427  | 354  | 290  | 2.92             | 3.5  | 1.8  | 2   | 91 | 1.7  | 5.74  | 9.3  | 148  | AHLEM, WILLIAM JR       | CA    |    |
| 1.881 FOREST GLEN ZUMAS LINSEY         | 067354815       | 8K | F   | 4815             | 0   | 63  | 296   | 0.08  | 27  | 0.02  | 16   | 437  | 397  | 355  | 2.78             | 4.1  | 0.7  | 0   | 79 | 1.7  | 6.48  | 6.2  | 148  | FOREST GLEN JERSEYS     | OR    |    |
| 1.882 AHLEM CELEBRITY CARA 35005       | 069042211       | 8K | F   | 35005            | 1   | 73  | 609   | -0.04 | 20  | -0.03 | 15   | 386  | 391  | 396  | 2.92             | 4.8  | 1.6  | 1   | 84 | 2.3  | 5.61  | 8.6  | 148  | RIVER VALLEY FARM       | IL    |    |
| 1.883 PR FARIA BROTHERS MAXIMUS 55676  | 840003006060314 | 3K |     | 55676            | 2   | 56  | 1,769 | -0.03 | 74  | -0.07 | 51   | 314  | 314  | 323  | 2.93             | -0.3 | -1.1 | 1   | 77 | -0.2 | -0.61 | -6.5 | 147  | FARIA BROS DAIRIES      | TX    |    |
| 1.884 GR FARIA BROTHERS MARTINI 57478  | 840003006316028 | 6K | F   | 57478            | 2   | 61  | 1,539 | -0.03 | 66  | -0.03 | 51   | 302  | 296  | 316  | 3.33             | 0.2  | 0.8  | 1   | 78 | 0.0  | -0.88 | 0.2  | 147  | FARIA BROS DAIRIES      | TX    |    |
| 1.885 BW RENEGADE LESLIE W353          | 117594177       | 3K |     | 1516             | 1   | 68  | 1,185 | 0.02  | 59  | 0.02  | 44   | 343  | 312  | 301  | 3.16             | 0.3  | 0.5  | 0   |    | 1.1  | 0.54  | 7.4  | 147  | BRENTWOOD FARMS         | CA    |    |
| 1.886 VALSIGNA VICTOR 17150            | 117551372       | 3K |     | 17150            | 1   | 69  | 1,132 | 0.04  | 59  | 0.02  | 44   | 352  | 305  | 272  | 2.98             | 0.3  | -1.6 | 1   | 76 | 1.0  | 1.73  | 8.2  | 147  | WICKSTROM DAIRIES, LP   | CA    |    |
| 1.887 GR CLOVER PATCH GANNON JAMS      | 117268454       | 8K | C   | 1894             | 1   | 68  | 1,491 | -0.12 | 47  | -0.05 | 42   | 300  | 300  | 306  | 2.91             | 1.7  | -1.0 | 1   | 84 | 1.6  | 2.81  | 5.2  | 147  | KOZAK, ALAN             | OH    |    |
| 1.888 CLOVER PATCH BOLED BANQUET       | 117674565       | 8K | F   | 2068             | 1   | 69  | 1,406 | -0.09 | 48  | -0.04 | 42   | 311  | 310  | 322  | 3.08             | 0.5  | 0.2  | 0   | 80 | 1.0  | 1.41  | 7.0  | 147  | KOZAK, ALAN             | OH    |    |
| 1.889 CAL-MART BALLARD VERA 5284       | 067245284       | 6K | F   | 5284             | 1   | 69  | 795   | 0.09  | 53  | 0.07  | 42   | 380  | 313  | 270  | 3.17             | 1.6  | -0.7 | 0   | 79 | 0.9  | 1.78  | 7.4  | 147  | MARTIN DAIRY LLC        | OR    |    |
| 1.890 CAL-MART ROY MARA 5386           | 067185386       | 6K | F   | 5386             | 0   | 56  | 799   | 0.16  | 67  | 0.06  | 39   | 457  | 390  | 338  | 2.98             | 1.8  | -0.5 | 0   | 77 | 0.2  | -0.32 | 6.1  | 147  | MARTIN DAIRY LLC        | OR    |    |
| 1.891 GR WILSONVIEW GARDEN SILVIA-ET   | 067191493       | 3K |     | 1493             | 2   | 72  | 1,156 | -0.02 | 48  | -0.01 | 38   | 346  | 335  | 340  | 3.15             | 2.8  | -0.5 | 3   | 90 | 1.4  | 3.14  | 5.5  | 147  | WILSONVIEW DAIRY        | OR    |    |
| 1.892 FOREST GLEN PLUS RENEE           | 067354335       | 6K | F   | 4335             | 1   | 70  | 964   | 0.08  | 60  | 0.02  | 38   | 438  | 395  | 363  | 2.95             | 2.4  | -0.1 | 0   | 80 | 0.4  | -0.52 | 6.9  | 147  | BANSEN, DAN K           | OR    |    |
| 1.893 CLOVER PATCH VIBRANT CEDAR       | 117770841       | 8K | C   | 2178             | 1   | 71  | 1,213 | -0.09 | 39  | -0.03 | 37   | 416  | 401  | 390  | 2.85             | 3.6  | -0.1 | 0   | 68 | 0.0  | -0.74 | 8.2  | 147  | KOZAK, ALAN             | OH    |    |
| 1.894 DP IMPULS CASSIE 636             | 067081636       | 8K | C   | 636              | 2   | 72  | 627   | 0.07  | 42  | 0.08  | 37   | 457  | 383  | 326  | 3.02             | 3.5  | 0.1  | 1   | 86 | 0.8  | 0.35  | 6.6  | 147  | DESERT PARK JERSEYS     | OR    |    |
| 1.895 CLOVER PATCH HEADLINE DITTO      | 117306141       | 3K |     | 2000             | 2   | 71  | 1,391 | -0.13 | 39  | -0.08 | 36   | 357  | 378  | 405  | 3.01             | 3.5  | 0.6  | 1   | 84 | 1.2  | 0.59  | 7.9  | 147  | KOZAK, ALAN             | OH    |    |
| 1.896 HILMAR JACK 21764                | 067621764       | 3K |     | 21764            | 4   | 75  | 1,080 | -0.03 | 45  | -0.02 | 36   | 406  | 381  | 362  | 2.90             | 1.9  | -0.1 | 0   | 90 | 0.8  | 1.27  | 7.8  | 147  | AHLEM, CHARLES          | CA    |    |
| 1.897 AHLEM JIMMIE PEARLINE 30994      | 065340367       | 8K | C   | 30994            | 4   | 76  | 1,076 | -0.14 | 24  | -0.01 | 36   | 317  | 300  | 294  | 3.03             | 1.7  | 0.4  | 2   | 86 | 1.1  | 3.09  | 10.1 | 147  | AHLEM, WILLIAM JR       | CA    |    |
| 1.898 GR FARIA BROTHERS STONE 64667    | 840003006263118 | 6K | F   | 64667            | 2   | 67  | 952   | -0.06 | 33  | 0.01  | 36   | 377  | 339  | 309  | 2.92             | 2.4  | 0.1  | 2   | 85 | 0.7  | 1.90  | 3.4  | 147  | FARIA DAIRY             | AZ    |    |
| 1.899 BETTYDON LOUIE NASHVILLE         | 116876209       | 3K |     | 842              | 3   | 72  | 734   | 0.03  | 39  | 0.05  | 36   | 397  | 346  | 315  | 3.15             | 2.8  | 0.5  | 2   | 88 | 1.3  | 1.93  | 7.0  | 147  | LAKE STEVE & WOLF LEANA | WA    |    |
| 1.900 MILLS LOUIE NOON                 | 117502882       | 3K |     | 7145             | 1   | 67  | 1,155 | 0.05  | 60  | -0.03 | 35   | 371  | 363  | 361  | 2.94             | 2.4  | 0.0  | 1   | 84 | 0.9  | 1.98  | 5.4  | 147  | MILLS JERSEY FARM LLC   | NV    |    |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    | Owner | ST    |      |     |                            |      |
|--|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|-------|-------|------|-----|----------------------------|------|
|  |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                        | GJPI |
| 1,901 SAND HILL VALENTINO KLARA        | 067146622       | 3K  |     | 6622  | 1   | 70  | 1,017 | -0.03 | 41  | -0.01 | 35   | 353  | 325  | 303  | 2.90 | 1.7 | -0.1 | 1   | 85 | 1.5   | 3.14  | 6.7  | 147 | CHAMBERLAIN, DANA          | NY   |
| 1,902 AVI-LANCHE VIBRANT SUE 4965      | 840003008324168 | 3K  |     | 4965  | 1   | 69  | 1,011 | 0.01  | 46  | 0.00  | 35   | 373  | 345  | 327  | 2.94 | 2.1 | -0.9 | 1   | 83 | 1.1   | 2.41  | 7.6  | 147 | AVILA RICHARD & JENNIFER M | TX   |
| 1,903 GR VALSIGNA SPARKY 17486         | 117611588       | 3K  |     | 17486 | 1   | 71  | 1,000 | -0.06 | 34  | 0.00  | 35   | 378  | 343  | 312  | 2.81 | 1.7 | -0.5 | 0   |    | 1.0   | 2.05  | 10.1 | 147 | WICKSTROM DAIRIES, LP      | CA   |
| 1,904 WOODSTOCK RENEGADE IP LENA       | 117639414       | 8K  | F   | 1317  | 1   | 68  | 594   | 0.17  | 61  | 0.07  | 35   | 468  | 400  | 350  | 3.06 | 3.0 | 0.1  | 0   | 79 | 1.1   | 0.29  | 5.9  | 147 | WOODSTOCK DAIRY            | OR   |
| 1,905 GR AHLEM GANNON NOELLE 32266     | 066621699       | 3K  |     | 32266 | 3   | 70  | 1,516 | -0.18 | 35  | -0.11 | 34   | 286  | 323  | 359  | 2.91 | 2.4 | 0.1  | 2   | 77 | 0.8   | 3.23  | 4.3  | 147 | AHLEM, WILLIAM JR          | CA   |
| 1,906 GR TJF DALE ROXETTE-ET           | 067269063       | 3K  |     | 9063  | 3   | 70  | 879   | -0.03 | 35  | 0.01  | 34   | 384  | 350  | 328  | 3.02 | 3.6 | 0.4  | 2   | 90 | 1.0   | 2.95  | 4.5  | 147 | HUFFARD DAIRY FARMS        | VA   |
| 1,907 CINNAMON RIDGE LOUIE LIGHTNING   | 117122527       | 8K  | F   | 822   | 1   | 71  | 858   | 0.02  | 44  | 0.02  | 34   | 459  | 412  | 369  | 2.79 | 3.1 | 1.0  | 1   | 78 | 0.1   | -0.10 | 6.5  | 147 | MAXWELL AMY & KARA         | IA   |
| 1,908 DODAN MILITIA SAND               | 116077356       | 3K  |     | 3608  | 2   | 72  | 569   | 0.12  | 48  | 0.07  | 34   | 442  | 376  | 329  | 3.11 | 2.8 | 1.4  | 2   | 82 | -0.2  | 0.64  | 6.6  | 147 | RECTOR JERSEY FARM         | CA   |
| 1,909 BOYD-LEE IMPULS HONEY            | 115049934       | 3K  |     | 254   | 4   | 75  | 545   | 0.12  | 48  | 0.07  | 34   | 425  | 363  | 326  | 3.22 | 3.0 | 0.9  | 2   | 90 | 0.9   | 1.42  | 4.1  | 147 | BOYD, TYLER L              | TN   |
| 1,910 CAL-MART BLADE RHEA 5032         | 067125032       | 3K  |     | 5032  | 1   | 68  | 488   | 0.17  | 55  | 0.09  | 34   | 433  | 353  | 291  | 3.03 | 2.1 | -0.1 | 0   | 83 | 0.8   | 1.89  | 6.4  | 147 | MARTIN DAIRY LLC           | OR   |
| 1,911 PR FARIA BROTHERS MATINEE 19193  | 840003001571138 | 6K  | F   | 19193 | 4   | 65  | 1,230 | 0.06  | 68  | -0.05 | 33   | 455  | 456  | 453  | 2.77 | 3.5 | -0.1 | 0   | 80 | -0.1  | -1.21 | 1.2  | 147 | FARIA DAIRY                | AZ   |
| 1,912 CAL-MART HEADLINE PATI 5078      | 067125078       | 3K  |     | 5078  | 1   | 68  | 1,139 | -0.08 | 38  | -0.04 | 33   | 441  | 446  | 460  | 3.05 | 5.3 | 2.0  | 0   | 73 | 0.1   | -1.43 | 6.5  | 147 | MARTIN DAIRY LLC           | OR   |
| 1,913 JEVON CUPID 686                  | 117052323       | 3K  |     | 90020 | 2   | 72  | 1,039 | -0.09 | 33  | -0.03 | 33   | 369  | 357  | 350  | 2.94 | 3.5 | -0.4 | 2   | 81 | 1.5   | 3.33  | 8.0  | 147 | AVILA RICHARD & JENNIFER M | TX   |
| 1,914 AVI-LANCHE HONOR EVETTA 5057     | 067375057       | 6K  | F   | 5057  | 1   | 67  | 935   | 0.09  | 60  | 0.00  | 33   | 435  | 407  | 384  | 2.90 | 2.5 | 0.0  | 1   | 79 | 0.4   | 0.82  | 4.6  | 147 | AVILA RICHARD & JENNIFER M | TX   |
| 1,915 YOSEMITE LEGAL IATOLA N23058-ET  | 840003008203155 | 3K  |     | 90017 | 1   | 68  | 757   | 0.04  | 43  | 0.03  | 33   | 401  | 359  | 334  | 3.08 | 2.7 | 0.4  | 2   | 87 | 1.9   | 3.38  | 5.5  | 147 | AVILA, CAITLIN             | TX   |
| 1,916 GR HILMAR IMPULS 23414           | 067623414       | 6K  | C   | 23414 | 3   | 72  | 708   | 0.11  | 54  | 0.03  | 33   | 476  | 426  | 388  | 2.99 | 3.3 | 1.1  | 2   | 81 | 0.7   | 0.37  | 4.6  | 147 | AHLEM, CHARLES             | CA   |
| 1,917 HI-LAND HEADLINE VIOLET          | 067146669       | 8K  | F   | 6669  | 1   | 72  | 1,465 | -0.22 | 26  | -0.10 | 32   | 326  | 372  | 420  | 3.00 | 4.5 | 1.0  | 1   | 82 | 1.0   | 1.81  | 7.4  | 147 | CHAMBERLAIN, DAVID R       | NY   |
| 1,918 D&E HEADLINE POCOHANTAS 21993    | 067421993       | 3K  |     | 21993 | 1   | 70  | 1,174 | -0.01 | 51  | -0.06 | 32   | 380  | 390  | 406  | 3.03 | 3.7 | -0.3 | 1   | 84 | 1.3   | 1.84  | 7.9  | 147 | D & E JERSEYS              | TX   |
| 1,919 GR GOOSE LYON 771                | 117517521       | 3K  |     | 219   | 1   | 65  | 978   | 0.04  | 52  | -0.02 | 32   | 427  | 397  | 367  | 2.74 | 2.8 | -0.3 | 1   | 82 | 1.5   | 2.48  | 3.6  | 147 | MOYE, NEIL                 | NC   |
| 1,920 BAF TBONE OLATHE OPAL-ET         | 117087879       | 8K  | F   | 26    | 1   | 73  | 665   | 0.07  | 44  | 0.04  | 32   | 389  | 333  | 287  | 2.90 | 1.7 | -0.7 | 1   | 85 | 1.6   | 4.00  | 8.8  | 147 | SEALS THOMAS L & JENNIE L  | OR   |
| 1,921 AHLEM TBONE SEQUOIA 33279        | 066622712       | 3K  |     | 33279 | 2   | 73  | 479   | 0.17  | 52  | 0.08  | 32   | 365  | 296  | 247  | 3.12 | 0.7 | 0.2  | 3   | 86 | 2.0   | 4.70  | 9.8  | 147 | AHLEM, WILLIAM JR          | CA   |
| 1,922 VALSIGNA MILEAGE 17826           | 117725047       | 3K  |     | 17826 | 1   | 68  | 776   | 0.11  | 56  | 0.02  | 31   | 446  | 405  | 372  | 2.89 | 2.7 | 1.2  | 0   | 68 | 1.0   | 0.71  | 8.8  | 147 | WICKSTROM DAIRIES, LP      | CA   |
| 1,923 DUPAT ABE 3776                   | 067133776       | 3K  |     | 13776 | 2   | 67  | 609   | 0.14  | 55  | 0.05  | 31   | 464  | 403  | 351  | 2.88 | 3.0 | 0.2  | 2   | 82 | 0.5   | 1.45  | 4.1  | 147 | WICKSTROM, BRENTON         | CA   |
| 1,924 SUN VALLEY IMPULS POLLY NINA     | 116626644       | 3K  |     | 2320  | 3   | 70  | 350   | 0.11  | 36  | 0.10  | 31   | 480  | 388  | 307  | 2.88 | 3.5 | 0.4  | 2   | 79 | 0.9   | 1.86  | 4.9  | 147 | SUN VALLEY FARM            | OR   |
| 1,925 GR AVON ROAD GANNON GRACE-ET     | 067106630       | 3K  |     | 630   | 0   | 63  | 686   | 0.10  | 49  | 0.03  | 30   | 382  | 339  | 304  | 2.95 | 2.2 | -0.5 | 1   | 83 | 1.6   | 4.70  | 6.3  | 147 | STRANDBERG, DR D L         | WI   |
| 1,926 SUN VALLEY IMPULS JELLYBEAN      | 117050303       | 3K  |     | 2489  | 1   | 68  | 489   | 0.20  | 60  | 0.07  | 30   | 449  | 391  | 351  | 3.12 | 3.1 | 0.0  | 1   | 82 | 1.2   | 2.80  | 7.2  | 147 | SUN VALLEY FARM            | OR   |
| 1,927 BOHNERTS HEADLINE DAFADIL        | 067421190       | 3K  |     | 1190  | 1   | 71  | 1,216 | -0.12 | 32  | -0.07 | 29   | 430  | 441  | 445  | 2.71 | 5.3 | 0.1  | 0   | 76 | 1.2   | 1.73  | 9.0  | 147 | DIAMOND VALLEY DAIRY       | OR   |
| 1,928 PR VIDA BOA GANNON 14406         | 067214406       | 6K  | F   | 14406 | 2   | 73  | 1,173 | -0.07 | 39  | -0.07 | 29   | 308  | 325  | 344  | 2.92 | 2.2 | 0.4  | 0   |    | 1.6   | 3.99  | 6.9  | 147 | VIDA BOA FARMS             | CA   |
| 1,929 DUPAT LEGAL 8974                 | 067148974       | 6K  | C   | 8974  | 0   | 65  | 835   | -0.06 | 27  | 0.00  | 29   | 382  | 359  | 342  | 2.92 | 3.7 | 0.6  | 0   | 75 | 1.7   | 3.83  | 7.0  | 147 | TATE, WILL                 | CA   |
| 1,930 BW BLACKSTONE GENIE ET623-ET     | 116541514       | 3K  |     | 1552  | 3   | 74  | 485   | 0.18  | 56  | 0.05  | 29   | 419  | 364  | 326  | 3.09 | 2.7 | 0.4  | 2   | 84 | 1.4   | 3.40  | 7.0  | 147 | BRENTWOOD FARMS            | CA   |
| 1,931 SUMMETZ LENNOX DORIS DANEAE-ET   | 067124351       | 3K  |     | 4351  | 2   | 71  | 925   | -0.02 | 40  | -0.03 | 28   | 371  | 367  | 369  | 2.97 | 2.8 | 1.1  | 2   | 90 | 1.0   | 2.90  | 6.3  | 147 | KELLER KIP & ROBIN         | NY   |
| 1,932 GIESEKES LEGAL LADY              | 067141661       | 3K  |     | 1661  | 1   | 69  | 793   | -0.06 | 25  | 0.00  | 28   | 380  | 360  | 347  | 2.99 | 3.7 | 1.0  | 1   | 83 | 1.5   | 4.06  | 6.8  | 147 | GIESEKE PETER & AMY LOUISE | MN   |
| 1,933 GABYS BLACKSTONE BRASSY-ET       | 116615431       | 3K  |     | 1657  | 2   | 73  | 457   | 0.12  | 44  | 0.06  | 28   | 414  | 360  | 322  | 3.11 | 3.2 | -0.6 | 2   | 90 | 1.8   | 4.75  | 8.3  | 147 | COTILLION ACRES, LLC       | KY   |
| 1,934 SUN VALLEY HEADLINE HOLLY-ET     | 117744031       | 3K  |     | 2860  | 1   | 69  | 1,082 | -0.10 | 30  | -0.06 | 27   | 322  | 344  | 374  | 3.08 | 3.8 | 0.3  | 0   | 74 | 1.8   | 4.86  | 7.7  | 147 | SEALS THOMAS L & JENNIE L  | OR   |
| 1,935 RECTOR CLAUDE CHARMED 22415      | 067422415       | 6K  | F   | 22415 | 0   | 58  | 762   | 0.07  | 46  | 0.00  | 27   | 420  | 387  | 352  | 2.75 | 2.6 | -0.1 | 0   | 79 | 1.1   | 3.49  | 6.1  | 147 | RECTOR JERSEY FARM         | CA   |
| 1,936 FOREST GLEN IMPULS DINA          | 067323464       | 3K  |     | 3464  | 1   | 69  | 251   | 0.21  | 51  | 0.09  | 27   | 478  | 398  | 333  | 3.00 | 3.3 | 0.5  | 1   | 88 | 1.2   | 3.11  | 6.8  | 147 | FOREST GLEN JERSEYS        | OR   |
| 1,937 SUNSET CANYON IMPULS L MAID 1-ET | 116496681       | 50K | F   | 1743  | 2   | 69  | -71   | 0.37  | 65  | 0.16  | 27   | 512  | 393  | 293  | 2.99 | 2.5 | -0.2 | 2   | 87 | 1.0   | 3.85  | 3.8  | 147 | SILVA, ERIC LEONARD        | OR   |
| 1,938 AHLEM LEGAL DREAM 35471          | 069042677       | 8K  | C   | 35471 | 2   | 71  | 965   | -0.13 | 18  | -0.05 | 25   | 362  | 376  | 391  | 2.97 | 4.1 | 0.9  | 1   | 84 | 2.0   | 4.56  | 7.4  | 147 | AHLEM, WILLIAM JR          | CA   |
| 1,939 HI-LAND CELEBRITY VIOLIN         | 067146342       | 3K  |     | 6342  | 2   | 72  | 595   | 0.03  | 35  | 0.03  | 25   | 451  | 405  | 358  | 2.74 | 3.4 | 1.2  | 1   | 78 | 0.9   | 2.29  | 8.8  | 147 | CHAMBERLAIN, DAVID R       | NY   |
| 1,940 AHLEM CELEBRITY ALLURE 34428     | 069041634       | 8K  | F   | 34428 | 2   | 74  | 585   | -0.03 | 20  | 0.02  | 25   | 414  | 375  | 339  | 2.86 | 3.8 | 1.5  | 2   | 84 | 1.5   | 3.34  | 9.4  | 147 | AHLEM, WILLIAM JR          | CA   |
| 1,941 VALSIGNA SPARKY 17724            | 117613870       | 3K  |     | 17724 | 1   | 70  | 534   | 0.10  | 42  | 0.03  | 25   | 392  | 354  | 326  | 3.01 | 3.2 | -0.3 | 0   |    | 1.3   | 4.56  | 8.3  | 147 | WICKSTROM DAIRIES, LP      | CA   |
| 1,942 BELLWOOD CELEBRITY SATIN-ET      | 117077313       | 3K  |     | 1058  | 1   | 71  | 465   | 0.10  | 40  | 0.04  | 25   | 381  | 331  | 288  | 2.91 | 2.2 | 0.2  | 2   | 90 | 2.2   | 5.79  | 9.7  | 147 | GOLDEN-SPIKE GENETICS      | ID   |
| 1,943 BLUE SKY JOHNSON BABEL 3277      | 067183277       | 3K  |     | 13277 | 2   | 72  | 839   | -0.05 | 27  | -0.03 | 24   | 444  | 429  | 408  | 2.71 | 4.5 | 1.0  | 2   | 85 | 0.9   | 2.50  | 9.1  | 147 | TRANS-OVA GENETICS         | IA   |
| 1,944 AHLEM LEGAL QUEENIE 34855        | 069042061       | 8K  | F   | 34855 | 2   | 73  | 688   | -0.01 | 29  | -0.01 | 23   | 425  | 408  | 394  | 2.91 | 4.1 | 1.1  | 2   | 86 | 1.8   | 4.35  | 8.1  | 147 | AHLEM, WILLIAM JR          | CA   |
| 1,945 GR FARIA BROTHERS HUGO 92371     | 840003008536739 | 3K  |     | 92371 | 1   | 65  | 1,458 | -0.04 | 58  | -0.02 | 48   | 359  | 351  | 365  | 3.25 | 2.6 | 0.0  | 1   | 76 | 0.5   | -1.61 | 4.6  | 146 | FARIA BROS DAIRIES         | TX   |
| 1,946 SLYE HOLLOW VITO ERICA           | 117389113       | 3K  |     | 176   | 1   | 70  | 1,434 | -0.17 | 32  | -0.01 | 48   | 343  | 316  | 301  | 2.95 | 2.0 | -1.0 | 1   | 82 | 0.7   | -0.01 | 8.4  | 146 | FERRISDALE FARM            | VT   |
| 1,947 GR FOREST GLEN GARDENS FANCY     | 067282103       | 3K  |     | 2103  | 3   | 71  | 1,469 | -0.10 | 48  | -0.03 | 46   | 270  | 273  | 299  | 3.30 | 0.9 | 0.1  | 2   | 88 | 1.5   | 1.84  | 6.1  | 146 | FOREST GLEN JERSEYS        | OR   |
| 1,948 D&E EXCELSIOR BLITZEN 21281-P    | 067521281       | 3K  |     | 21281 | 3   | 72  | 1,458 | -0.01 | 65  | -0.04 | 46   | 317  | 310  | 319  | 3.11 | 0.1 | 0.1  | 2   | 81 | 0.5   | -0.56 | 6.3  | 146 | D & E JERSEYS              | TX   |
| 1,949 O.F. JUPITER JODIE               | 067277086       | 8K  | F   | 7086  | 2   | 73  | 1,528 | -0.14 | 46  | -0.06 | 43   | 282  | 294  | 319  | 3.12 | 1.2 | -0.6 | 2   | 81 | 0.8   | 1.79  | 7.9  | 146 | OWENS FARMS INC            | WI   |
| 1,950 WILL DO VALENTINO WAMBE          | 117454367       | 3K  |     | 483   | 1   | 70  | 1,488 | -0.13 | 43  | -0.05 | 43   | 295  | 296  | 305  | 2.96 | 1.2 | -1.3 | 1   | 79 | 1.3   | 2.22  | 8.7  | 146 | ETTINGER ERICA & AMBER     | SC   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                      | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    | Owner | ST    |      |     |                            |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|-------|-------|------|-----|----------------------------|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                        | GJPI |
| 1,951 GR DUPAT CARL 7843                  | 067297843       | 3K  |     | 7843             | 1   | 68  | 1,220 | -0.03 | 49  | -0.01 | 43   | 333  | 306  | 295              | 3.06 | 1.4 | -0.4 | 1   | 83 | 1.4   | 1.88  | 4.4  | 146 | WICKSTROM JERSEY FARMS INC | CA   |
| 1,952 GR OAKHAVEN DALE JENNY              | 117191477       | 3K  |     | 90021            | 1   | 67  | 1,582 | -0.19 | 37  | -0.08 | 42   | 339  | 358  | 384              | 3.01 | 3.5 | 0.1  | 1   | 73 | 0.2   | 0.13  | 4.4  | 146 | AVILA RICHARD & JENNIFER M | TX   |
| 1,953 PR FARIA BROTHERS SHAWNEE 61900     | 840003008626019 | 6K  | F   | 61900            | 2   | 58  | 1,710 | -0.19 | 42  | -0.10 | 40   | 300  | 340  | 384              | 2.99 | 2.3 | 0.9  | 0   | 80 | -0.3  | -0.71 | -2.4 | 146 | FARIA BROS DAIRIES         | TX   |
| 1,954 D&E HEADLINE MARCY 3609             | 067333609       | 3K  |     | 3609             | 2   | 72  | 1,543 | -0.26 | 22  | -0.08 | 40   | 308  | 332  | 366              | 3.06 | 3.8 | -0.3 | 1   | 84 | 1.6   | 1.98  | 7.9  | 146 | OKLAHOMA STATE UNIVERSITY  | OK   |
| 1,955 WICKS PLUS 4192                     | 067304192       | 3K  |     | 4192             | 1   | 70  | 1,270 | -0.12 | 37  | -0.03 | 39   | 298  | 289  | 289              | 2.99 | 0.8 | -0.3 | 1   | 87 | 1.4   | 3.38  | 8.7  | 146 | WICKSTROM BROS             | CA   |
| 1,956 CAL-MART IMPULS NADINE 2116         | 116041126       | 3K  |     | 704              | 4   | 73  | 847   | 0.02  | 45  | 0.04  | 39   | 417  | 360  | 319              | 3.04 | 2.3 | -0.1 | 2   | 82 | 0.4   | 0.53  | 6.4  | 146 | MARTIN DAIRY LLC           | OR   |
| 1,957 GR DUPAT GANNON 7127                | 067287127       | 6K  | F   | 30085            | 2   | 69  | 1,126 | -0.03 | 45  | 0.00  | 38   | 307  | 283  | 269              | 2.98 | 1.0 | -0.1 | 0   |    | 1.3   | 3.42  | 5.1  | 146 | DEPEW, KAITLYN             | PA   |
| 1,958 AHLEM COUNTRY CHARM 18553           | 063729962       | 3K  |     | 18553            | 4   | 74  | 1,067 | -0.11 | 27  | 0.00  | 38   | 343  | 311  | 287              | 2.91 | 1.9 | 0.4  | 2   | 83 | 1.1   | 1.88  | 8.6  | 146 | AHLEM, WILLIAM JR          | CA   |
| 1,959 SUNNY DAY PLUS GOLLEE               | 067089267       | 3K  |     | 2267             | 1   | 70  | 962   | 0.06  | 54  | 0.02  | 38   | 369  | 336  | 323              | 3.17 | 1.8 | 0.1  | 1   | 77 | 1.0   | 1.53  | 8.3  | 146 | SUNNY DAY FARM             | SC   |
| 1,960 HEARTLAND IMPULS SCARLET            | 067342139       | 3K  |     | 2139             | 1   | 68  | 915   | -0.06 | 31  | 0.03  | 38   | 387  | 343  | 312              | 3.00 | 2.8 | 0.4  | 1   | 82 | 0.6   | 0.90  | 6.8  | 146 | HEARTLAND JERSEYS          | KS   |
| 1,961 TEN SPRINGS M&D PRES DEBATE         | 116309392       | 3K  |     | 408              | 3   | 71  | 646   | 0.10  | 46  | 0.08  | 38   | 418  | 336  | 270              | 2.94 | 1.5 | 0.6  | 2   | 80 | 0.4   | 0.47  | 6.4  | 146 | SPRING VALLEY FARM         | OH   |
| 1,962 GR HEAVENS BLESSINS GANNON BOOBOO   | 117097531       | 8K  | F   | 8057             | 2   | 70  | 1,450 | -0.11 | 45  | -0.07 | 37   | 339  | 352  | 366              | 2.87 | 2.7 | -0.4 | 2   | 86 | 0.4   | 1.23  | 5.0  | 146 | DERR, MATTHEW L            | PA   |
| 1,963 HILMAR BUNGY 25958                  | 067325958       | 3K  |     | 25958            | 1   | 71  | 808   | 0.11  | 59  | 0.03  | 37   | 428  | 376  | 338              | 3.01 | 2.2 | -0.2 | 1   | 82 | 0.4   | 0.58  | 4.7  | 146 | AHLEM, CHARLES             | CA   |
| 1,964 PR FARIA BROTHERS ROCKET 20607      | 840003001562179 | 6K  | F   | 20607            | 4   | 73  | 1,155 | -0.10 | 33  | -0.02 | 36   | 322  | 314  | 316              | 3.03 | 1.6 | 0.9  | 0   | 86 | 0.9   | 2.36  | 7.2  | 146 | FARIA BROS DAIRIES         | TX   |
| 1,965 CAL-MART LOUIE FAITH 5163           | 067385163       | 6K  | C   | 5163             | 1   | 71  | 949   | 0.10  | 61  | 0.01  | 36   | 400  | 363  | 336              | 2.95 | 1.9 | 0.3  | 0   | 74 | 0.5   | 0.66  | 8.1  | 146 | MARTIN DAIRY LLC           | OR   |
| 1,966 WILSONVIEW SEAN MIRACLE             | 117423721       | 8K  | F   | 1803             | 1   | 71  | 841   | 0.11  | 59  | 0.03  | 36   | 431  | 385  | 353              | 3.03 | 3.2 | -0.3 | 1   | 83 | 0.8   | 0.72  | 8.5  | 146 | WILSONVIEW DAIRY           | OR   |
| 1,967 CAL-MART NAVARA BLAISE 2581         | 116515245       | 50K | C   | 921              | 2   | 77  | 319   | 0.19  | 52  | 0.12  | 36   | 415  | 316  | 246              | 3.19 | 1.4 | 0.9  | 2   | 90 | 1.2   | 2.18  | 5.4  | 146 | MARTIN DAIRY LLC           | OR   |
| 1,968 GR JER-Z-BOYZ GANNON 31015          | 117494552       | 3K  |     | 31015            | 2   | 66  | 1,038 | 0.03  | 54  | -0.01 | 35   | 365  | 344  | 332              | 2.96 | 2.5 | 0.0  | 1   | 80 | 1.1   | 2.02  | 3.6  | 146 | JER-Z-BOYZ                 | CA   |
| 1,969 KANE-LANE V HIHI                    | 067281386       | 8K  | C   | 1386             | 1   | 71  | 991   | 0.05  | 53  | 0.00  | 35   | 396  | 360  | 326              | 2.79 | 2.1 | -2.0 | 1   | 83 | 1.5   | 3.04  | 9.3  | 146 | KOEHN, STEVEN B            | OK   |
| 1,970 SAR IAGO HARLEY                     | 117433102       | 3K  |     | 7000             | 1   | 69  | 799   | -0.08 | 21  | 0.03  | 35   | 354  | 302  | 258              | 2.89 | 2.8 | -1.1 | 0   |    | 1.1   | 4.48  | 8.5  | 146 | BRIGGS, KORRI ANN          | KY   |
| 1,971 VALSIGNA KANOO 17039                | 117490053       | 3K  |     | 17039            | 1   | 68  | 1,026 | -0.02 | 44  | -0.01 | 34   | 383  | 376  | 383              | 3.16 | 3.5 | 0.9  | 1   | 79 | 0.9   | 0.54  | 6.8  | 146 | WICKSTROM DAIRIES, LP      | CA   |
| 1,972 WICKS BRAZO 2539                    | 067082539       | 3K  |     | 3171             | 4   | 75  | 1,162 | -0.03 | 48  | -0.05 | 33   | 379  | 382  | 392              | 2.99 | 3.3 | 0.1  | 2   | 79 | 1.1   | 1.30  | 9.5  | 146 | RED TOP JERSEYS            | CA   |
| 1,973 SPRING CREEK LOUIE LAYLA            | 067124524       | 8K  | F   | 1322             | 1   | 70  | 887   | 0.16  | 70  | 0.01  | 33   | 407  | 376  | 356              | 2.99 | 2.3 | -0.3 | 1   | 78 | 1.1   | 2.13  | 6.2  | 146 | SPRING CREEK FARMS         | WI   |
| 1,974 O.F. MILITIA SILVER                 | 067126433       | 3K  |     | 6433             | 4   | 74  | 869   | -0.06 | 28  | 0.01  | 33   | 418  | 389  | 371              | 3.02 | 4.3 | 1.7  | 2   | 81 | 0.1   | 1.05  | 7.1  | 146 | OWENS FARMS INC            | WI   |
| 1,975 CDF ABE PASSION M27745              | 840003005858534 | 3K  |     | 27745            | 2   | 71  | 846   | 0.08  | 54  | 0.01  | 33   | 455  | 419  | 395              | 2.98 | 3.5 | 0.2  | 2   | 82 | 0.3   | -0.46 | 6.2  | 146 | C & S LIVESTOCK            | CA   |
| 1,976 GR KILGUS DALE GABRIEL              | 117262588       | 3K  |     | 8475             | 2   | 70  | 609   | 0.15  | 56  | 0.06  | 33   | 423  | 355  | 299              | 2.92 | 2.5 | -0.9 | 2   | 86 | 1.5   | 3.50  | 5.2  | 146 | GARDNER MARK & SHANNON     | PA   |
| 1,977 FARIA BROTHERS BLADE 100956         | 840003008322063 | 6K  | F   | 100956           | 1   | 71  | 601   | 0.13  | 52  | 0.06  | 33   | 387  | 327  | 283              | 3.04 | 1.4 | 0.2  | 1   | 84 | 1.3   | 3.25  | 7.3  | 146 | FARIA DAIRY                | AZ   |
| 1,978 FOREST GLEN LOUIES MOLLY            | 067323523       | 3K  |     | 3523             | 1   | 67  | 1,303 | -0.07 | 46  | -0.08 | 32   | 370  | 393  | 416              | 2.90 | 3.0 | 0.2  | 1   | 75 | 0.5   | 1.96  | 4.9  | 146 | BANSEN, DAN K              | OR   |
| 1,979 ABEL LUCKY L ALISON                 | 115782910       | 3K  |     | 457              | 4   | 74  | 1,066 | 0.03  | 55  | -0.04 | 32   | 405  | 407  | 419              | 3.07 | 3.8 | 0.4  | 2   | 88 | 0.4   | 0.98  | 6.8  | 146 | LEAMON, DENNIS T           | NC   |
| 1,980 GR JER-Z-BOYZ GOOSE 38276-ET        | 117848687       | 8K  | F   | 37276            | 0   | 47  | 1,035 | 0.08  | 61  | -0.02 | 32   | 430  | 408  | 385              | 2.75 | 2.7 | -0.2 | 0   | 80 | 1.0   | 1.35  | 0.9  | 146 | JER-Z-BOYZ                 | CA   |
| 1,981 D&E ABE VELLO 21222                 | 067521222       | 3K  |     | 21222            | 4   | 72  | 996   | 0.04  | 55  | -0.02 | 32   | 444  | 422  | 402              | 2.83 | 3.5 | -0.6 | 2   | 88 | 0.3   | 0.38  | 6.6  | 146 | D & E JERSEYS              | TX   |
| 1,982 CAL-MART ABE SHONTA 2415-ET         | 116276175       | 3K  |     | 692              | 3   | 71  | 907   | -0.03 | 35  | 0.01  | 32   | 420  | 394  | 374              | 2.92 | 4.2 | 0.0  | 2   | 83 | 0.8   | 1.92  | 4.8  | 146 | MARTIN DAIRY LLC           | OR   |
| 1,983 AHLEM PRIMO INTRIGUE 35090          | 069042296       | 8K  | F   | 35090            | 2   | 73  | 830   | -0.08 | 23  | 0.01  | 32   | 357  | 324  | 303              | 3.01 | 2.7 | 0.0  | 2   | 85 | 1.1   | 3.92  | 9.2  | 146 | AHLEM, WILLIAM JR          | CA   |
| 1,984 SPRINGDALE TBONE PINK               | 117191897       | 3K  |     | 1010             | 2   | 71  | 512   | 0.19  | 59  | 0.07  | 32   | 423  | 352  | 296              | 2.99 | 1.9 | 0.1  | 1   | 82 | 1.4   | 2.44  | 9.7  | 146 | SOMERS, ANN WHITCOMB       | ME   |
| 1,985 GR HEARTLAND GANNON SKIPPY          | 067251983       | 8K  | F   | 1983             | 2   | 74  | 1,313 | -0.10 | 41  | -0.07 | 31   | 330  | 351  | 369              | 2.84 | 2.8 | 0.1  | 2   | 88 | 1.3   | 3.16  | 7.5  | 146 | HEARTLAND JERSEYS          | KS   |
| 1,986 CAL-MART IMPULS NEYVA 3136-ET       | 116902380       | 50K | F   | 3136             | 2   | 72  | 890   | 0.03  | 47  | 0.00  | 31   | 441  | 416  | 398              | 2.94 | 3.4 | 0.2  | 1   | 74 | 0.6   | 1.36  | 6.2  | 146 | MARTIN DAIRY LLC           | OR   |
| 1,987 GR FARIA BROTHERS BELLIRINGER 81803 | 840003007110012 | 6K  | F   | 81803            | 1   | 67  | 742   | 0.12  | 56  | 0.02  | 31   | 355  | 322  | 301              | 3.05 | 2.2 | -1.1 | 1   | 82 | 1.8   | 4.73  | 6.6  | 146 | FARIA BROS DAIRIES         | TX   |
| 1,988 DALHART BENEFACOR 20902             | 067620902       | 3K  |     | 20902            | 4   | 74  | 1,112 | -0.10 | 32  | -0.06 | 30   | 369  | 371  | 370              | 2.80 | 3.3 | -0.8 | 2   | 90 | 2.1   | 4.15  | 8.9  | 146 | AHLEM, MARK                | CA   |
| 1,989 VALSIGNA SPARKY 17498               | 117611711       | 3K  |     | 17498            | 1   | 70  | 1,016 | 0.00  | 48  | -0.03 | 30   | 344  | 345  | 354              | 3.06 | 2.1 | 0.4  | 0   | 82 | 1.4   | 2.99  | 8.9  | 146 | WICKSTROM DAIRIES, LP      | CA   |
| 1,990 VALSIGNA KANOO 17050                | 117490156       | 3K  |     | 17050            | 1   | 66  | 749   | 0.13  | 59  | 0.02  | 30   | 386  | 363  | 357              | 3.20 | 2.8 | 0.6  | 1   | 78 | 0.9   | 2.22  | 6.0  | 146 | WICKSTROM DAIRIES, LP      | CA   |
| 1,991 BUTTERCREST VALENTINO MISSY         | 117429400       | 8K  | F   | 498              | 1   | 72  | 911   | -0.04 | 34  | -0.02 | 29   | 349  | 337  | 333              | 3.00 | 3.0 | -0.3 | 0   |    | 1.9   | 4.61  | 9.8  | 146 | COOPERRIDER & SONS         | OH   |
| 1,992 VALSIGNA KANOO 17019                | 117489877       | 3K  |     | 17019            | 1   | 67  | 728   | 0.04  | 40  | 0.02  | 29   | 414  | 385  | 370              | 3.09 | 4.3 | 0.8  | 1   | 59 | 0.8   | 1.95  | 6.3  | 146 | WICKSTROM DAIRIES, LP      | CA   |
| 1,993 SILVERADO JACK ROSIE                | 116094151       | 50K | F   | 547              | 3   | 74  | 727   | 0.05  | 44  | 0.00  | 29   | 430  | 388  | 349              | 2.80 | 3.4 | -0.5 | 2   | 91 | 1.1   | 2.84  | 8.1  | 146 | BARHAM, RICHARD L          | TN   |
| 1,994 LUCKY HILL RENEGADE BILLION         | 117353590       | 3K  |     | 830              | 1   | 69  | 410   | 0.20  | 58  | 0.08  | 28   | 491  | 417  | 351              | 2.83 | 3.0 | -0.2 | 1   | 78 | 1.5   | 2.48  | 7.3  | 146 | LUCKY HILL FARM            | VT   |
| 1,995 FOREST GLEN IMPULS PROMISE ME       | 067323850       | 3K  |     | 3850             | 1   | 68  | 776   | 0.01  | 38  | -0.01 | 27   | 477  | 457  | 444              | 2.97 | 5.5 | 1.1  | 1   | 82 | 0.5   | 1.27  | 5.7  | 146 | BANSEN STANLEY K & DORA H  | OR   |
| 1,996 VICS KARBALA KANDIE 6345            | 117447402       | 3K  |     | 6345             | 1   | 69  | 659   | 0.08  | 46  | 0.02  | 27   | 380  | 343  | 313              | 2.93 | 2.0 | -0.6 | 1   | 85 | 1.5   | 4.89  | 8.8  | 146 | FANELLI, VICTOR            | CA   |
| 1,997 TOLLENAAR RENEGADE 7103             | 840003007844123 | 3K  |     | 7103             | 0   | 62  | 365   | 0.14  | 45  | 0.08  | 27   | 470  | 396  | 330              | 2.86 | 3.5 | 0.7  | 1   | 68 | 1.0   | 2.31  | 7.1  | 146 | TOLLENAAR JERSEYS          | CA   |
| 1,998 AHLEM IATOLA WYN 19631              | 064553185       | 3K  |     | 19631            | 4   | 74  | 315   | 0.15  | 43  | 0.07  | 26   | 437  | 358  | 282              | 2.77 | 2.1 | -0.4 | 2   | 90 | 1.7   | 4.91  | 8.4  | 146 | AHLEM, WILLIAM JR          | CA   |
| 1,999 AHLEM HEADLINE ROSANNA 36585        | 070048059       | 8K  | F   | 36585            | 1   | 72  | 1,399 | -0.18 | 29  | -0.13 | 25   | 299  | 361  | 419              | 2.96 | 4.1 | 1.2  | 1   | 82 | 1.4   | 4.34  | 7.8  | 146 | AHLEM, WILLIAM JR          | CA   |
| 2,000 D&E CJACK VIOLET 50028-ET           | 067150028       | 3K  |     | 60003            | 1   | 71  | 632   | 0.08  | 44  | 0.02  | 25   | 415  | 382  | 354              | 2.91 | 3.4 | 0.4  | 1   | 78 | 1.3   | 4.20  | 6.9  | 146 | AVILA RICHARD & JENNIFER M | TX   |



## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |                              |      |
|---|-----------------|-----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|------------------------------|------|
|   |                 |     |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                          | GJPI |
| 2.001 CDF ABE POINTER G7602             | 067057602       | 3K  |     | 7602   | 4   | 74  | 497   | 0.10  | 41  | 0.04  | 25   | 450  | 404  | 366  | 2.93 | 4.4  | -0.1 | 2   | 82 | 0.6  | 3.18  | 6.0   | 146 | C & S LIVESTOCK              | CA   |
| 2.002 GR DP JEON SHAWNA 390             | 116323318       | 3K  |     | 390    | 3   | 73  | 878   | 0.01  | 41  | -0.04 | 24   | 380  | 382  | 385  | 2.91 | 3.8  | 0.2  | 2   | 88 | 1.3  | 3.99  | 7.5   | 146 | DESERT PARK JERSEYS          | OR   |
| 2.003 CHASIN-RAINBOWS HEADLINE ROBIN    | 067093540       | 3K  |     | 540    | 1   | 71  | 933   | -0.07 | 29  | -0.05 | 23   | 386  | 403  | 423  | 2.99 | 5.4  | 0.1  | 0   | 87 | 1.8  | 3.86  | 9.0   | 146 | TOHL, PATTI                  | OR   |
| 2.004 CLOVER PATCH IATOLA BRAZEN        | 116517760       | 8K  | F   | 1510   | 3   | 74  | 670   | 0.03  | 37  | -0.01 | 23   | 351  | 330  | 310  | 2.85 | 2.1  | -0.4 | 2   | 88 | 2.5  | 7.12  | 10.0  | 146 | HOSTETTLER, ROMAN            | OH   |
| 2.005 AHLEM LEGAL QUEST 37749           | 070049223       | 6K  | F   | 37749  | 0   | 64  | 514   | 0.07  | 37  | 0.02  | 23   | 431  | 392  | 359  | 2.90 | 3.9  | 0.9  | 0   | 81 | 2.1  | 4.20  | 7.6   | 146 | AHLEM, WILLIAM JR            | CA   |
| 2.006 YOSEMITE KOKOMOO ARTIST ARUBA     | 840003001258782 | 50K | F   | 3199   | 4   | 75  | 96    | 0.26  | 52  | 0.10  | 22   | 498  | 413  | 337  | 2.87 | 3.4  | 0.4  | 3   | 91 | 1.5  | 3.25  | 5.5   | 146 | YOSEMITE JERSEY DAIRY        | CA   |
| 2.007 VALSIGNA KILOWATT 18045           | 117727021       | 3K  |     | 18045  | 1   | 70  | 666   | -0.09 | 14  | -0.04 | 16   | 406  | 414  | 419  | 2.87 | 5.7  | 1.6  | 0   | 74 | 1.3  | 4.95  | 8.6   | 146 | WICKSTROM DAIRIES, LP        | CA   |
| 2.008 DUPAT ACTION 3712                 | 067103712       | 3K  |     | 3712   | 5   | 76  | 442   | -0.02 | 16  | -0.01 | 14   | 438  | 420  | 393  | 2.70 | 5.6  | 1.2  | 2   | 91 | 1.5  | 5.89  | 9.2   | 146 | WICKSTROM JERSEY FARMS INC   | CA   |
| 2.009 AHLEM CELEBRITY CORA 33986        | 066623419       | 8K  | C   | 33986  | 2   | 75  | 463   | -0.06 | 9   | -0.02 | 13   | 386  | 386  | 389  | 2.98 | 5.5  | 1.6  | 2   | 90 | 2.1  | 6.72  | 9.6   | 146 | AHLEM, WILLIAM JR            | CA   |
| 2.010 BW LEGION GALIANA ET629-ET        | 116541457       | 3K  |     | 335    | 3   | 75  | 358   | 0.07  | 29  | 0.00  | 12   | 453  | 435  | 412  | 2.79 | 6.1  | 1.7  | 4   | 92 | 1.6  | 5.62  | 7.5   | 146 | BRENTWOOD FARMS              | CA   |
| 2.011 PR RED TOP VITO 14382             | 067414382       | 8K  | F   | 14382  | 1   | 71  | 1,928 | -0.18 | 53  | -0.06 | 56   | 282  | 277  | 278  | 2.87 | 0.2  | -2.2 | 1   | 83 | 0.5  | -1.41 | 6.5   | 145 | RED TOP JERSEYS              | CA   |
| 2.012 GR FARIA BROTHERS SHAWNEE 61695   | 840003004415702 | 6K  | F   | 61695  | 3   | 60  | 1,721 | -0.11 | 57  | -0.07 | 48   | 300  | 316  | 348  | 3.15 | 0.8  | 0.4  | 0   | 79 | -0.1 | -2.02 | -0.5  | 145 | FARIA DAIRY                  | AZ   |
| 2.013 MAGNOLIA MATINEE PARIS 151        | 067149151       | 3K  |     | 151    | 3   | 72  | 1,841 | -0.11 | 63  | -0.10 | 47   | 353  | 386  | 428  | 3.06 | 2.0  | 0.1  | 2   | 84 | 0.2  | -3.31 | 6.7   | 145 | MISSISSIPPI STATE UNIVERSITY | MS   |
| 2.014 HAWARDEN NEBO PUFF                | 116477987       | 3K  |     | 477    | 3   | 73  | 1,388 | -0.13 | 41  | -0.02 | 46   | 294  | 282  | 287  | 3.15 | 1.3  | -0.2 | 2   | 82 | 0.5  | 0.90  | 6.4   | 145 | HAWARDEN JERSEYS INC         | ID   |
| 2.015 FOREST GLEN IMPULS PENCE          | 067282907       | 3K  |     | 2907   | 2   | 68  | 858   | 0.09  | 58  | 0.07  | 46   | 414  | 335  | 279  | 3.10 | 1.1  | -0.1 | 1   | 65 | 0.0  | -1.42 | 4.9   | 145 | BANSEN STANLEY K & DORA H    | OR   |
| 2.016 GR CAL-MART DALE THALASSA 2867    | 116731533       | 50K | F   | 2867   | 2   | 70  | 1,477 | -0.12 | 44  | -0.04 | 44   | 313  | 312  | 325  | 3.09 | 2.5  | -0.6 | 2   | 77 | 1.0  | 1.63  | 4.1   | 145 | MARTIN DAIRY LLC             | OR   |
| 2.017 MOLLY BROOK MILITIA IMPULS FAITH  | 116677154       | 50K | F   | 4      | 2   | 71  | 595   | 0.17  | 59  | 0.12  | 44   | 419  | 327  | 270  | 3.31 | 1.5  | 0.9  | 2   | 87 | 0.5  | -0.72 | 6.0   | 145 | CAMPBELL, DR LARRY J         | WA   |
| 2.018 YOSEMITE ABE FUTURITY H2486       | 067142486       | 50K | F   | 2486   | 4   | 75  | 1,203 | 0.00  | 55  | -0.01 | 43   | 359  | 324  | 300  | 2.95 | 0.9  | -1.1 | 2   | 83 | 0.7  | 0.60  | 6.1   | 145 | RUSSELL, COLIN R             | CA   |
| 2.019 CLOVER PATCH IMPULS LINGUINE      | 116200330       | 3K  |     | 1422   | 4   | 70  | 1,166 | -0.07 | 41  | 0.00  | 43   | 312  | 293  | 299  | 3.30 | 1.9  | 0.7  | 2   | 88 | 1.4  | 1.96  | 4.0   | 145 | KOZAK, ALAN                  | OH   |
| 2.020 GR SEACORD FARM GANNON GLORIA     | 117161159       | 3K  |     | 556    | 2   | 65  | 800   | 0.15  | 66  | 0.08  | 43   | 351  | 279  | 231  | 3.14 | -0.2 | 0.3  | 2   | 86 | 0.9  | 1.21  | 3.9   | 145 | SEACORD, RICHARD T           | NY   |
| 2.021 CLOVER PATCH IMPULS KARI          | 117771486       | 8K  | C   | 2247   | 1   | 67  | 593   | 0.18  | 62  | 0.12  | 43   | 434  | 339  | 274  | 3.20 | 1.7  | 0.2  | 0   | 73 | 0.4  | -0.54 | 5.3   | 145 | KOZAK, ALAN                  | OH   |
| 2.022 PR FARIA BROTHERS BOOKMARK 101097 | 840003008534465 | 6K  | C   | 101097 | 1   | 67  | 1,380 | -0.02 | 59  | -0.04 | 42   | 354  | 351  | 363  | 3.11 | 2.0  | 0.1  | 1   | 78 | 0.8  | 0.13  | 4.4   | 145 | FARIA DAIRY                  | AZ   |
| 2.023 CLOVER PATCH BOLD BOURBON         | 117676400       | 8K  | F   | 2103   | 1   | 71  | 1,214 | -0.01 | 52  | 0.00  | 42   | 314  | 287  | 273  | 3.00 | 0.1  | -0.7 | 0   | 82 | 1.4  | 2.45  | 9.3   | 145 | KOZAK, ALAN                  | OH   |
| 2.024 GABYS IMPULS DIANE-ET             | 116027735       | 50K | F   | 1514   | 3   | 74  | 1,083 | -0.01 | 47  | 0.01  | 40   | 409  | 381  | 372  | 3.14 | 3.3  | 0.5  | 2   | 85 | 0.2  | -0.76 | 5.9   | 145 | GABY, HENRY                  | TN   |
| 2.025 THREE VALLEYS TBONE C MAYBELL-ET  | 116631954       | 3K  |     | 1006   | 1   | 69  | 868   | 0.08  | 55  | 0.04  | 40   | 356  | 304  | 273  | 3.13 | 0.7  | -0.2 | 2   | 88 | 1.8  | 2.26  | 9.2   | 145 | LUTZ HERBY & AMANDA          | SC   |
| 2.026 YOSEMITE TREASURE QUE N20214      | 840003007448982 | 3K  |     | 20214  | 2   | 72  | 1,229 | -0.07 | 41  | -0.03 | 39   | 335  | 317  | 306  | 2.90 | 1.3  | -0.8 | 2   | 84 | 0.7  | 1.35  | 7.2   | 145 | YOSEMITE JERSEY DAIRY        | CA   |
| 2.027 GR FARIA BROTHERS MAXIMUM 89551   | 840003004635190 | 6K  | F   | 89551  | 1   | 57  | 1,181 | 0.09  | 71  | -0.02 | 39   | 430  | 405  | 387  | 2.90 | 2.4  | -0.2 | 1   | 80 | 0.2  | -1.25 | -3.5  | 145 | FARIA BROS DAIRIES           | TX   |
| 2.028 BLUE MIST LEGAL MADISON           | 117919725       | 8K  | F   | 1480   | 1   | 67  | 1,177 | -0.12 | 30  | -0.01 | 39   | 307  | 286  | 275  | 2.98 | 1.7  | -0.2 | 0   | 77 | 1.4  | 3.27  | 7.0   | 145 | GOMES, EDDIE                 | OR   |
| 2.029 CAL-MART LOUIE WINDY 5321         | 067185321       | 6K  | C   | 5321   | 1   | 69  | 1,142 | 0.05  | 62  | -0.01 | 39   | 377  | 359  | 355  | 3.07 | 2.3  | -0.1 | 0   | 84 | 1.0  | 0.84  | 6.7   | 145 | MARTIN DAIRY LLC             | OR   |
| 2.030 WOODSTOCK LEGAL MICKI             | 115934595       | 50K | C   | 1061   | 3   | 76  | 1,482 | -0.22 | 26  | -0.08 | 38   | 309  | 338  | 376  | 3.10 | 3.5  | -0.1 | 2   | 90 | 1.1  | 2.19  | 8.6   | 145 | WOODS, GREG                  | OR   |
| 2.031 PEARLMONT RESTORE DIANE-ET        | 116575902       | 50K | F   | 321    | 3   | 76  | 1,199 | -0.08 | 39  | -0.03 | 38   | 364  | 352  | 348  | 2.97 | 2.8  | 0.0  | 2   | 82 | 0.7  | 0.41  | 8.4   | 145 | PEARL, WILLIAM H             | VT   |
| 2.032 CAL-MART SIXTYNINE AILI 5145      | 067385145       | 3K  |     | 5145   | 1   | 66  | 928   | 0.08  | 58  | 0.03  | 38   | 438  | 393  | 362  | 3.01 | 2.9  | -0.3 | 0   | 76 | 0.5  | -0.26 | 6.1   | 145 | MARTIN DAIRY LLC             | OR   |
| 2.033 WY-ROB LEGAL DORIE 22053          | 067422053       | 3K  |     | 22053  | 1   | 67  | 911   | -0.04 | 33  | 0.03  | 38   | 330  | 286  | 259  | 3.07 | 2.2  | 0.2  | 1   | 80 | 1.4  | 3.99  | 5.1   | 145 | TAYLOR, WYATT                | CA   |
| 2.034 WOODSTOCK CHAMP RANE              | 117571527       | 8K  | C   | 1288   | 1   | 72  | 724   | 0.12  | 56  | 0.06  | 38   | 378  | 322  | 291  | 3.23 | 1.6  | -0.3 | 0   | 84 | 1.3  | 1.78  | 9.6   | 145 | WOODSTOCK DAIRY              | OR   |
| 2.035 AHLEM LEGAL CHARM 35903           | 069043109       | 8K  | F   | 35903  | 1   | 71  | 1,274 | -0.13 | 33  | -0.05 | 37   | 330  | 325  | 323  | 2.87 | 1.6  | 0.4  | 2   | 80 | 1.1  | 1.97  | 6.7   | 145 | AHLEM, WILLIAM JR            | CA   |
| 2.036 DUPAT PLUS 8730                   | 067148730       | 3K  |     | 8730   | 1   | 69  | 1,252 | -0.15 | 31  | -0.04 | 37   | 377  | 376  | 383  | 3.01 | 3.6  | 0.1  | 0   | 72 | 1.1  | 1.30  | 6.1   | 145 | WICKSTROM JERSEY FARMS INC   | CA   |
| 2.037 GABYS NAVARA AVON-ET              | 117477140       | 50K | F   | 1896   | 1   | 69  | 946   | 0.14  | 70  | 0.02  | 37   | 387  | 354  | 339  | 3.12 | 1.6  | -0.2 | 1   | 85 | 0.9  | 0.68  | 5.3   | 145 | GABY, HENRY                  | TN   |
| 2.038 BERRYS ALEX MADDIE                | 117083772       | 3K  |     | 1002   | 0   | 61  | 729   | 0.17  | 64  | 0.05  | 37   | 436  | 375  | 331  | 3.05 | 2.0  | -0.4 | 0   |    | 0.5  | 0.79  | 6.0   | 145 | BERRY COLLEGE                | GA   |
| 2.039 GR CAL-MART SWEET OLESIA 3991     | 117549588       | 8K  | F   | 3991   | 1   | 69  | 727   | 0.15  | 61  | 0.06  | 37   | 402  | 335  | 285  | 3.00 | 1.0  | -0.7 | 0   | 81 | 1.2  | 2.37  | 6.5   | 145 | MARTIN DAIRY LLC             | OR   |
| 2.040 BW MAXIMUM MELISSA S36            | 116111599       | 3K  |     | 1499   | 3   | 71  | 721   | 0.10  | 50  | 0.06  | 37   | 416  | 354  | 308  | 3.04 | 2.1  | 0.8  | 2   | 90 | 1.0  | 0.16  | 7.0   | 145 | BRENTWOOD FARMS              | CA   |
| 2.041 DIAMOND S VIBRANT JALEA           | 067130603       | 8K  | F   | 1600   | 0   | 65  | 1,295 | -0.11 | 38  | -0.05 | 36   | 410  | 411  | 413  | 2.87 | 4.0  | 0.1  | 0   | 83 | -0.4 | -0.98 | 6.8   | 145 | DIAMOND S FARM               | MN   |
| 2.042 DUTCH HOLLOW LOVABLE CHANDI-ET    | 067184286       | 8K  | C   | 4286   | 1   | 73  | 1,151 | 0.02  | 57  | -0.03 | 36   | 369  | 347  | 326  | 2.77 | 1.2  | -0.6 | 1   | 82 | 1.4  | 1.93  | 8.1   | 145 | CHITTENDEN, PAUL C           | NY   |
| 2.043 CINNAMON RIDGE IMPULS JULIANA     | 116294654       | 8K  | F   | 764    | 3   | 70  | 586   | 0.27  | 78  | 0.07  | 36   | 457  | 384  | 330  | 3.05 | 1.7  | -0.3 | 2   | 82 | 0.2  | 0.46  | 4.4   | 145 | MAXWELL AMY & KARA           | IA   |
| 2.044 EVANGELO BONAR ROCIO              | 067088573       | 6K  | F   | 573    | 1   | 69  | 979   | -0.01 | 43  | 0.00  | 35   | 384  | 362  | 353  | 3.07 | 3.1  | 0.4  | 1   | 84 | 0.6  | 1.62  | 6.5   | 145 | EVANGELO, ANTHONY M          | CA   |
| 2.045 HIGHLAND ARTIST K SPICE           | 067132324       | 3K  |     | 2324   | 4   | 74  | 1,479 | -0.16 | 37  | -0.09 | 34   | 343  | 382  | 428  | 3.07 | 3.8  | 0.6  | 2   | 84 | 0.7  | 0.81  | 6.5   | 145 | HIGHLAND FARMS               | ME   |
| 2.046 CAL-MART LOUIE DAMITA 5153        | 067385153       | 6K  | F   | 5153   | 1   | 71  | 1,009 | 0.02  | 51  | -0.01 | 34   | 406  | 381  | 361  | 2.87 | 2.7  | 0.2  | 0   | 84 | 0.7  | 0.80  | 8.2   | 145 | MARTIN DAIRY LLC             | OR   |
| 2.047 VALSIGNA KARBALA 17567            | 117612374       | 3K  |     | 17567  | 1   | 70  | 949   | 0.02  | 50  | 0.00  | 34   | 374  | 345  | 324  | 2.95 | 1.9  | -0.7 | 1   | 72 | 1.0  | 2.49  | 7.8   | 145 | WICKSTROM DAIRIES, LP        | CA   |
| 2.048 SHIPLEY LEGAL TASHA 1161          | 067381161       | 8K  | F   | 1161   | 1   | 70  | 860   | 0.03  | 46  | 0.02  | 34   | 327  | 297  | 282  | 3.11 | 1.9  | -0.2 | 1   | 80 | 1.3  | 3.79  | 6.5   | 145 | ATHERTON, STACEY             | OH   |
| 2.049 GR ORTHRIDGE BLACKSTONE VICKI     | 116943660       | 3K  |     | 542    | 1   | 68  | 790   | 0.02  | 38  | 0.03  | 34   | 379  | 337  | 309  | 3.04 | 2.5  | 0.2  | 1   | 87 | 1.1  | 2.72  | 5.4   | 145 | ORTHRIDGE FARMS              | WI   |
| 2.050 AHLEM LEGAL SOUVENIR 35103        | 069042309       | 8K  | F   | 35103  | 2   | 72  | 787   | 0.06  | 46  | 0.03  | 34   | 408  | 366  | 341  | 3.07 | 3.0  | 0.3  | 1   | 80 | 1.2  | 2.65  | 6.9   | 145 | AHLEM, WILLIAM JR            | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name  | Reg #                               | GT              | JH1 | GPTA |        |     |      |       |       |    |       |      |      | TYPE |     |      |     |      |    |      | Owner | ST    |      |     |  |    |
|-------|-------------------------------------|-----------------|-----|------|--------|-----|------|-------|-------|----|-------|------|------|------|-----|------|-----|------|----|------|-------|-------|------|-----|--|----|
|       |                                     |                 |     | CCN  | Rec    | Rel | Milk | %F    | Fat   | %P | Prot  | CM\$ | NM\$ | FM\$ | SCS | PL   | DPR | Rec  | FS | PTAT |       |       | JUI  | GFI | GJPI                                       |    |
| 2,051 | HIGHLAWN ERTL IMPULS HELAINE        | 067311705       | 3K  |      | 1705   | 2   | 68   | 492   | 0.18  | 56 | 0.09  | 34   | 469  | 390  | 329 | 3.02 | 2.4 | 0.8  | 1  | 83   | 0.7   | 0.61  | 5.3  | 145 | ERTL DAVID & BETH                          | OH |
| 2,052 | AHLEM TBONE ROSANNA 34010           | 069041216       | 3K  |      | 34010  | 1   | 70   | 398   | 0.12  | 41 | 0.10  | 34   | 331  | 241  | 169 | 3.02 | 0.2 | -0.4 | 1  | 82   | 1.9   | 6.05  | 9.8  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,053 | FARIA BROTHERS MAXIMUM 100512       | 840003008321619 | 6K  | F    | 100512 | 1   | 68   | 967   | 0.08  | 62 | -0.01 | 33   | 401  | 381  | 369 | 2.99 | 2.3 | 0.3  | 1  | 78   | 0.6   | 0.80  | 4.8  | 145 | FARIA BROS DAIRIES                         | TX |
| 2,054 | CAL-MART CHAMP CINDY 5200-ET        | 067245200       | 6K  | F    | 5200   | 1   | 72   | 875   | -0.02 | 37 | 0.01  | 33   | 341  | 315  | 304 | 3.12 | 2.5 | -0.3 | 0  | 80   | 1.5   | 4.10  | 8.2  | 145 | MARTIN DAIRY LLC                           | OR |
| 2,055 | HEARTLAND ABE DAKOTA                | 067101573       | 50K | F    | 1573   | 3   | 74   | 658   | 0.09  | 47 | 0.06  | 33   | 467  | 406  | 355 | 2.91 | 3.5 | 0.2  | 2  | 87   | 0.4   | 0.52  | 5.7  | 145 | HEARTLAND JERSEYS                          | KS |
| 2,056 | PR FARIA BROTHERS PROTECTOR BALE    | 840003004630298 | 6K  | F    | 84659  | 2   | 73   | 1,092 | -0.03 | 44 | -0.04 | 32   | 331  | 333  | 344 | 3.05 | 2.4 | -0.4 | 0  |      | 1.3   | 3.52  | 8.5  | 145 | FARIA BROS DAIRIES                         | TX |
| 2,057 | AHLEM SENTRY REBA 135               | 070047109       | 8K  | C    | 135    | 1   | 70   | 982   | -0.07 | 33 | -0.01 | 32   | 363  | 344  | 331 | 2.91 | 3.0 | -0.9 | 0  | 76   | 1.4   | 3.82  | 11.1 | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,058 | VALSIGNA SPARKY 17659               | 117613263       | 3K  |      | 17659  | 1   | 70   | 858   | -0.02 | 35 | 0.01  | 32   | 341  | 317  | 306 | 3.09 | 2.0 | 0.2  | 0  |      | 0.8   | 3.50  | 8.9  | 145 | WICKSTROM DAIRIES, LP                      | CA |
| 2,059 | AHLEM LEGAL LAURA 35305             | 069042511       | 8K  | C    | 35305  | 1   | 70   | 809   | 0.02  | 41 | 0.01  | 32   | 395  | 353  | 317 | 2.87 | 2.2 | 0.1  | 1  | 82   | 1.4   | 3.28  | 7.2  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,060 | GR FARIA BROTHERS APPARTITION 99511 | 840003006061296 | 6K  | F    | 99511  | 2   | 71   | 760   | 0.12  | 55 | 0.03  | 32   | 422  | 382  | 354 | 2.99 | 2.8 | 0.1  | 0  |      | 0.6   | 1.42  | 3.5  | 145 | FARIA BROS DAIRIES                         | TX |
| 2,061 | CINNAMON RIDGE JARRETT LADYBUG      | 116836368       | 8K  | F    | 803    | 2   | 73   | 714   | 0.08  | 47 | 0.03  | 31   | 430  | 385  | 348 | 2.92 | 2.0 | 1.0  | 2  |      | 1.0   | 1.34  | 7.5  | 145 | MAXWELL, AMY                               | IA |
| 2,062 | LILY PATCH IMPULS BELLA             | 116383338       | 8K  | C    | 1568   | 3   | 72   | 692   | 0.09  | 49 | 0.04  | 31   | 433  | 384  | 344 | 2.94 | 3.1 | 0.4  | 2  | 90   | 0.7   | 1.77  | 5.3  | 145 | ALDRICH, HENRY                             | NY |
| 2,063 | GR FARIA BROTHERS RENEGADE 90250    | 840003008303360 | 6K  | F    | 90250  | 1   | 65   | 629   | 0.16  | 60 | 0.05  | 31   | 427  | 372  | 330 | 2.98 | 1.8 | 0.9  | 1  | 85   | 1.1   | 1.66  | 3.1  | 145 | FARIA BROS DAIRIES                         | TX |
| 2,064 | FERRISDALE JEVON HERA               | 117595888       | 3K  |      | 187    | 0   | 61   | 1,053 | 0.02  | 53 | -0.04 | 30   | 410  | 406  | 403 | 2.85 | 3.6 | -0.4 | 0  | 84   | 1.0   | 1.87  | 5.7  | 145 | FERRISDALE FARM                            | VT |
| 2,065 | VALSIGNA SPARKY 17784               | 117724644       | 3K  |      | 17784  | 0   | 65   | 1,038 | -0.12 | 27 | -0.04 | 30   | 317  | 323  | 336 | 3.05 | 2.8 | 0.7  | 0  | 82   | 1.0   | 3.65  | 8.8  | 145 | WICKSTROM DAIRIES, LP                      | CA |
| 2,066 | VALSIGNA SPARKY 17532               | 117612057       | 3K  |      | 17532  | 1   | 70   | 810   | -0.04 | 29 | 0.01  | 30   | 352  | 322  | 298 | 2.91 | 2.6 | 0.1  | 0  | 80   | 1.1   | 3.68  | 8.7  | 145 | WICKSTROM DAIRIES, LP                      | CA |
| 2,067 | CAL-MART RENEGADE HELENA 3936-ET    | 117514171       | 3K  |      | 3936   | 1   | 69   | 481   | 0.22  | 64 | 0.06  | 30   | 466  | 402  | 353 | 3.01 | 3.2 | -0.3 | 1  | 78   | 1.5   | 1.35  | 6.8  | 145 | MARTIN DAIRY LLC                           | OR |
| 2,068 | AHLEM LEGAL ROSIE 35759             | 069042965       | 8K  | C    | 35759  | 1   | 69   | 1,081 | -0.11 | 29 | -0.05 | 29   | 341  | 346  | 353 | 2.91 | 3.4 | 0.4  | 1  | 85   | 1.5   | 4.12  | 6.8  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,069 | AHLEM CELEBRITY SUNSPRYT 35118      | 069042324       | 8K  | F    | 35118  | 2   | 74   | 895   | 0.00  | 42 | -0.01 | 29   | 373  | 358  | 349 | 2.96 | 2.8 | 0.9  | 2  | 81   | 1.7   | 3.11  | 9.6  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,070 | AHLEM LEGAL FRANCINE 35549          | 069042755       | 8K  | F    | 35549  | 1   | 71   | 778   | -0.02 | 31 | 0.01  | 29   | 408  | 378  | 354 | 2.94 | 4.1 | 0.0  | 1  | 78   | 1.6   | 2.91  | 7.6  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,071 | BW RENEGADE MANDY W384              | 117607260       | 3K  |      | 1200   | 1   | 67   | 588   | 0.16  | 58 | 0.05  | 29   | 461  | 407  | 363 | 2.94 | 2.8 | 1.1  | 1  | 81   | 1.0   | 0.58  | 5.6  | 145 | BRENTWOOD FARMS                            | CA |
| 2,072 | D&E JEVON MARCH 21356               | 067521356       | 3K  |      | 21356  | 3   | 72   | 564   | 0.20  | 64 | 0.04  | 29   | 531  | 475  | 429 | 2.90 | 4.2 | 0.4  | 3  | 85   | 0.4   | -0.91 | 6.4  | 145 | D & E JERSEYS                              | TX |
| 2,073 | BW HEADLINE SUZANNE 1 ET817-ET      | 117512580       | 50K | F    | 861    | 1   | 74   | 1,308 | -0.13 | 35 | -0.10 | 28   | 312  | 354  | 398 | 3.01 | 3.8 | 1.3  | 1  | 79   | 0.9   | 3.27  | 7.0  | 145 | BRENTWOOD FARMS                            | CA |
| 2,074 | PINE HILL TBONE SUZANNA             | 117411393       | 8K  | F    | 3572   | 1   | 72   | 558   | 0.14  | 50 | 0.05  | 28   | 430  | 379  | 339 | 2.95 | 2.6 | -0.2 | 1  | 80   | 1.5   | 3.10  | 8.2  | 145 | LINDSAYS PINE HILL JERSEY FARM             | OH |
| 2,075 | DP GERONIMO ANGIE 211               | 115971910       | 3K  |      | 211    | 3   | 73   | 1,013 | -0.12 | 24 | -0.05 | 27   | 334  | 348  | 368 | 3.03 | 3.5 | 0.8  | 2  | 92   | 1.5   | 3.77  | 7.9  | 145 | DESERT PARK JERSEYS                        | OR |
| 2,076 | CAL-MART LEGAL PHILA 5096           | 067125096       | 6K  |      | 5096   | 1   | 68   | 761   | 0.05  | 44 | -0.01 | 27   | 401  | 382  | 370 | 3.00 | 3.4 | 0.7  | 0  | 81   | 1.5   | 3.51  | 6.6  | 145 | MARTIN DAIRY LLC                           | OR |
| 2,077 | KUTZ VALENTINO 8967                 | 840003008111990 | 8K  | F    | 8967   | 1   | 73   | 755   | -0.03 | 28 | 0.00  | 27   | 388  | 361  | 337 | 2.87 | 3.6 | -0.5 | 1  | 84   | 2.2   | 5.11  | 8.2  | 145 | KUTZ DAIRY LLC                             | WI |
| 2,078 | BOYD-LEE LOTTO H GILLIAN            | 117476765       | 3K  |      | 401    | 1   | 66   | 409   | 0.22  | 60 | 0.06  | 27   | 514  | 449  | 395 | 2.94 | 4.2 | 0.9  | 0  |      | 0.9   | 0.43  | 6.5  | 145 | BOYD, TYLER L                              | TN |
| 2,079 | GR FARIA BROTHERS DAMASCUS 100626   | 840003008321733 | 6K  | F    | 100626 | 1   | 68   | 672   | 0.18  | 63 | 0.01  | 26   | 425  | 394  | 367 | 2.88 | 1.9 | 0.6  | 1  | 80   | 0.6   | 2.38  | 6.7  | 145 | FARIA BROS DAIRIES                         | TX |
| 2,080 | FOREST GLEN ABE JAMIE               | 067048777       | 8K  | F    | 8777   | 2   | 72   | 579   | 0.07  | 41 | 0.02  | 26   | 445  | 405  | 371 | 2.92 | 4.4 | 0.1  | 0  |      | 0.6   | 2.12  | 6.2  | 145 | COVINGTON JERSEYS & COVINGTON HANNAH & TIT | IA |
| 2,081 | SMJ CELEBRITY GIBBY                 | 067191265       | 50K | C    | 1265   | 2   | 75   | 489   | 0.13  | 49 | 0.04  | 26   | 455  | 397  | 344 | 2.80 | 2.8 | 0.5  | 2  | 85   | 1.2   | 2.22  | 8.4  | 145 | SILVER MAPLE FARMS INC                     | ME |
| 2,082 | CLOVER PATCH ALEX CENTS             | 117676866       | 3K  |      | 2150   | 1   | 67   | 474   | 0.13  | 46 | 0.04  | 26   | 417  | 373  | 341 | 3.06 | 3.4 | 0.4  | 0  | 81   | 1.7   | 4.64  | 7.4  | 145 | KOZAK, ALAN                                | OH |
| 2,083 | AHLEM REGION LADY 34942             | 069042148       | 80K | C    | 34942  | 2   | 74   | 522   | 0.14  | 50 | 0.03  | 25   | 437  | 392  | 354 | 2.91 | 3.5 | 0.4  | 2  | 82   | 1.2   | 3.70  | 7.0  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,084 | FOREST GLEN ALEXANDERS JOSIE        | 067354659       | 8K  | F    | 4659   | 1   | 68   | 608   | 0.08  | 41 | 0.01  | 24   | 458  | 432  | 414 | 3.02 | 4.9 | 1.3  | 0  | 72   | 0.5   | 2.07  | 5.4  | 145 | BANSEN, DAN K                              | OR |
| 2,085 | CLOVER PATCH LEGAL PICKLES          | 117674716       | 8K  | F    | 2083   | 1   | 69   | 533   | 0.00  | 24 | 0.02  | 24   | 395  | 356  | 323 | 2.89 | 3.4 | 0.7  | 0  | 74   | 2.0   | 5.72  | 6.9  | 145 | KOZAK, ALAN                                | OH |
| 2,086 | GOLDUST RENEGADE LYMARI-ET          | 067382016       | 8K  | C    | 2016   | 1   | 72   | 303   | 0.28  | 67 | 0.07  | 24   | 460  | 390  | 325 | 2.82 | 1.7 | 0.3  | 0  | 85   | 1.4   | 3.29  | 7.5  | 145 | LOURENZO, KEVIN B                          | ID |
| 2,087 | BARHAMS LEGAL BONITA-ET             | 117343089       | 3K  |      | 741    | 1   | 68   | 757   | 0.03  | 39 | -0.02 | 23   | 408  | 399  | 393 | 2.93 | 4.0 | 0.7  | 1  | 86   | 1.3   | 4.01  | 6.3  | 145 | BARHAM, RICHARD L                          | TN |
| 2,088 | AHLEM PRIMO PAULA 37390             | 070048864       | 8K  | F    | 37390  | 1   | 71   | 687   | -0.05 | 23 | -0.01 | 23   | 400  | 380  | 361 | 2.87 | 4.3 | 1.0  | 1  | 79   | 1.2   | 3.16  | 9.1  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,089 | AHLEM REGION GINNY 34557            | 069041763       | 8K  | F    | 34557  | 2   | 74   | 409   | 0.16  | 48 | 0.04  | 22   | 406  | 361  | 323 | 2.94 | 3.2 | -0.5 | 2  | 84   | 1.6   | 5.85  | 9.1  | 145 | AHLEM, WILLIAM JR                          | CA |
| 2,090 | FOREST GLEN ALEXANDERS BUTTER       | 067323568       | 3K  |      | 3568   | 2   | 70   | 592   | 0.08  | 41 | 0.00  | 20   | 499  | 474  | 443 | 2.72 | 4.8 | 1.3  | 1  | 84   | 0.8   | 1.69  | 6.8  | 145 | FOREST GLEN JERSEYS                        | OR |
| 2,091 | GR BW RENEGADE MARY U530            | 117145373       | 6K  | F    | 1003   | 2   | 71   | 108   | 0.25  | 52 | 0.08  | 20   | 479  | 409  | 351 | 2.98 | 3.8 | 0.6  | 1  | 85   | 1.7   | 4.32  | 6.0  | 145 | BRENTWOOD FARMS                            | CA |
| 2,092 | RICHIES ACTION STAR                 | 117673032       | 3K  |      | 9482   | 1   | 72   | 338   | 0.12  | 37 | 0.03  | 18   | 451  | 406  | 360 | 2.79 | 4.0 | 0.3  | 1  | 79   | 2.0   | 5.31  | 10.8 | 145 | DEBOER, NICO                               | TX |
| 2,093 | DUPAT ABE 4127                      | 067144127       | 3K  |      | 4127   | 5   | 75   | 1,269 | 0.01  | 62 | 0.02  | 48   | 380  | 330  | 293 | 2.91 | 0.7 | -1.1 | 2  | 82   | 0.4   | -1.63 | 5.9  | 144 | WICKSTROM JERSEY FARMS INC                 | CA |
| 2,094 | GR WINDHAVENS LIAM HELENA           | 067036672       | 8K  | F    | 672    | 2   | 67   | 1,463 | -0.11 | 47 | -0.03 | 45   | 293  | 293  | 307 | 3.13 | 1.4 | -0.2 | 2  | 87   | 0.9   | 0.71  | 2.7  | 144 | GREENE, WAYNE JR                           | WI |
| 2,095 | PR FARIA BROTHERS VENERABLE 65036   | 840003006263487 | 6K  |      | 65036  | 2   | 61   | 1,778 | -0.13 | 56 | -0.10 | 44   | 254  | 287  | 328 | 3.05 | 0.0 | -0.6 | 1  | 83   | 1.2   | 1.89  | 2.2  | 144 | FARIA DAIRY                                | AZ |
| 2,096 | TOLLENAAR RENEGADE 7042             | 840003007844062 | 3K  |      | 7042   | 0   | 60   | 860   | 0.09  | 58 | 0.07  | 44   | 437  | 358  | 297 | 2.98 | 2.0 | 0.1  | 1  | 66   | 0.7   | -1.56 | 5.3  | 144 | TOLLENAAR JERSEYS                          | CA |
| 2,097 | GR FARIA BROTHERS VALENTINO 101502  | 840003008534870 | 3K  |      | 101502 | 1   | 61   | 1,624 | -0.08 | 57 | -0.07 | 43   | 247  | 274  | 312 | 3.12 | 0.7 | -0.6 | 1  | 84   | 1.3   | 2.88  | 1.9  | 144 | FARIA DAIRY                                | AZ |
| 2,098 | HEARTLAND VALENTINO FIESTA          | 067262458       | 6K  | F    | 2458   | 0   | 66   | 1,179 | -0.01 | 52 | 0.00  | 43   | 329  | 298  | 280 | 3.03 | 0.9 | -0.4 | 0  | 83   | 1.6   | 1.80  | 7.5  | 144 | HEARTLAND JERSEYS                          | KS |
| 2,099 | HI-LAND IMPULS FOX                  | 114960973       | GI  |      | 1429   | 5   | 67   | 1,251 | -0.06 | 47 | -0.01 | 42   | 327  | 310  | 306 | 3.06 | 1.0 | 0.2  | 2  | 91   | 0.6   | 0.81  | 3.9  | 144 | HEARTLAND JERSEYS                          | KS |
| 2,100 | FOREST GLEN TBONE MONKEY            | 067282133       | 3K  |      | 2133   | 3   | 73   | 1,158 | 0.09  | 70 | 0.00  | 42   | 324  | 306  | 311 | 3.28 | 0.5 | 0.1  | 2  | 78   | 0.5   | 0.01  | 9.6  | 144 | FOREST GLEN JERSEYS                        | OR |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | ----- GPTA ----- |     |        |     |     |       |       |     |       |      | ----- TYPE ----- |      |      |      |     |      |     |    |      |       | Owner | ST  |                                |      |
|--|-----------------|------------------|-----|--------|-----|-----|-------|-------|-----|-------|------|------------------|------|------|------|-----|------|-----|----|------|-------|-------|-----|--------------------------------|------|
|  |                 | GT               | JH1 | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$             | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                            | GJPI |
| 2,101 D&E VINSON 4202                    | 067334202       | 3K               |     | 4202   | 1   | 69  | 781   | 0.15  | 63  | 0.08  | 42   | 505              | 417  | 343  | 2.85 | 2.3 | -0.6 | 1   | 75 | -0.1 | -2.39 | 7.2   | 144 | D & E JERSEYS                  | TX   |
| 2,102 GR FARIA BROTHERS VIRGIL 101183    | 840003008534551 | 6K               | F   | 101183 | 1   | 69  | 1,240 | 0.04  | 65  | -0.01 | 41   | 405              | 384  | 375  | 3.01 | 2.5 | -1.5 | 1   | 79 | 0.0  | -1.14 | 5.7   | 144 | FARIA DAIRY                    | AZ   |
| 2,103 CLOVER PATCH LEGAL MAROON          | 117676893       | 8K               | C   | 2154   | 1   | 69  | 1,152 | -0.11 | 32  | 0.00  | 41   | 321              | 304  | 310  | 3.27 | 2.5 | 0.4  | 0   | 81 | 1.1  | 1.87  | 7.0   | 144 | KOZAK, ALAN                    | OH   |
| 2,104 GR HEARTLAND DALE DINERO-ET        | 067251959       | 6K               | F   | 1959   | 2   | 74  | 1,278 | -0.11 | 36  | -0.02 | 40   | 324              | 317  | 322  | 3.05 | 2.6 | -0.1 | 2   | 83 | 1.3  | 1.82  | 7.4   | 144 | ENDRES JAZZY JERSEYS           | WI   |
| 2,105 SIL-MIST DAZZLE SPRITE LUCIA       | 067222546       | 6K               | C   | 2546   | 1   | 71  | 1,350 | -0.23 | 19  | -0.05 | 39   | 273              | 277  | 292  | 3.07 | 1.9 | 0.7  | 0   | 76 | 0.9  | 2.58  | 6.9   | 144 | SILVER MIST FARM               | OR   |
| 2,106 AHLEM ACE WANETTA 34132            | 069041338       | 3K               |     | 34132  | 2   | 72  | 1,258 | -0.07 | 45  | -0.03 | 39   | 309              | 304  | 313  | 3.10 | 1.1 | 0.2  | 1   | 83 | 1.2  | 1.77  | 9.0   | 144 | MARTINS BROTHERS               | CA   |
| 2,107 FOREST GLEN JEVON JENNY            | 067069734       | 8K               | C   | 9734   | 4   | 74  | 1,203 | 0.07  | 67  | -0.02 | 39   | 415              | 394  | 380  | 2.92 | 2.0 | 0.3  | 2   | 85 | -0.2 | -2.06 | 6.2   | 144 | FOREST GLEN JERSEYS            | OR   |
| 2,108 GOLDEN DREAM DAGWOOD ALASKA-P      | 115250949       | 3K               |     | 738    | 4   | 75  | 834   | -0.03 | 32  | 0.05  | 39   | 330              | 271  | 231  | 3.06 | 0.8 | 0.1  | 2   | 91 | 1.8  | 3.45  | 8.1   | 144 | CLINE NATHAN & ABBY            | IA   |
| 2,109 GR FARIA BROTHERS JEVON 58508      | 840003006317058 | 6K               | F   | 58508  | 2   | 72  | 1,521 | -0.09 | 52  | -0.08 | 38   | 297              | 321  | 349  | 2.96 | 1.3 | -0.5 | 1   | 85 | 1.2  | 2.19  | 4.8   | 144 | FARIA BROS DAIRIES             | TX   |
| 2,110 HIGH LAWN BLAISE RADIANCE          | 116916448       | 3K               |     | 10426  | 2   | 71  | 1,382 | -0.15 | 35  | -0.06 | 38   | 350              | 356  | 368  | 2.96 | 3.2 | 1.1  | 1   | 81 | 0.7  | -0.16 | 7.1   | 144 | HIGH LAWN FARM                 | MA   |
| 2,111 JARS OF CLAY VALENTINO ABBY        | 067243357       | 6K               | F   | 3357   | 1   | 72  | 1,096 | 0.01  | 53  | -0.01 | 38   | 338              | 315  | 303  | 3.01 | 1.5 | -0.9 | 1   | 75 | 1.6  | 2.45  | 9.8   | 144 | RANCHO TERESITA DAIRY          | CA   |
| 2,112 JER-Z-BOYZ SHAH 36415              | 118334367       | 8K               | F   | 36415  | 1   | 68  | 1,060 | -0.11 | 27  | 0.00  | 38   | 370              | 344  | 331  | 3.04 | 3.2 | 1.3  | 0   | 80 | 0.3  | 0.18  | 5.1   | 144 | JER-Z-BOYZ                     | CA   |
| 2,113 JO-KIRCH IMPULS ROSEMARY           | 117627983       | 8K               | F   | 962    | 1   | 68  | 932   | 0.02  | 45  | 0.03  | 38   | 391              | 351  | 326  | 3.07 | 2.9 | 0.3  | 1   | 78 | 0.9  | 1.04  | 6.1   | 144 | KIRCHDOERFER, CARL S           | MO   |
| 2,114 D&E ABE DAWN 22090                 | 067422090       | 3K               |     | 22090  | 1   | 68  | 914   | 0.12  | 64  | 0.03  | 38   | 426              | 374  | 334  | 2.91 | 2.0 | -1.1 | 1   | 83 | 0.6  | 0.38  | 5.5   | 144 | D & E JERSEYS                  | TX   |
| 2,115 HILMAR TBONE 18673                 | 067218673       | 6K               | F   | 18673  | 4   | 77  | 742   | 0.15  | 62  | 0.05  | 37   | 381              | 316  | 265  | 2.94 | 0.3 | -0.3 | 2   | 82 | 1.0  | 1.62  | 9.0   | 144 | AHLEM, CHARLES                 | CA   |
| 2,116 MS ACE 2749 G119                   | 116886747       | 8K               | C   | 7119   | 2   | 75  | 1,535 | -0.12 | 49  | -0.09 | 36   | 283              | 325  | 373  | 3.07 | 1.5 | -0.3 | 2   | 83 | 0.7  | 2.05  | 8.6   | 144 | MOUNTAIN SHADOW DAIRY          | AZ   |
| 2,117 GR BELLWOOD GANNON TANGO           | 116826950       | 3K               |     | 213    | 2   | 71  | 1,532 | -0.20 | 32  | -0.09 | 36   | 276              | 304  | 330  | 2.84 | 2.0 | 0.0  | 2   | 79 | 1.2  | 2.54  | 6.7   | 144 | WAKKER DAIRY                   | WI   |
| 2,118 CLOVER PATCH LEGAL KENYA           | 117676718       | 8K               | C   | 2135   | 1   | 67  | 1,158 | -0.09 | 37  | -0.02 | 36   | 285              | 276  | 277  | 3.03 | 1.4 | -0.3 | 0   | 80 | 2.4  | 5.61  | 5.9   | 144 | KOZAK, ALAN                    | OH   |
| 2,119 GR AHLEM DALE DUSTY 31906-ET       | 066069290       | 3K               |     | 3669   | 3   | 71  | 1,013 | -0.01 | 42  | 0.00  | 36   | 392              | 366  | 352  | 3.00 | 3.3 | -0.3 | 2   | 82 | 0.6  | 1.33  | 3.5   | 144 | TAUCHEN, ABBY                  | WI   |
| 2,120 SWEETIE PLUS TBONES BOLD           | 067282717       | 3K               |     | 2717   | 2   | 73  | 923   | 0.06  | 53  | 0.02  | 36   | 386              | 348  | 322  | 3.00 | 1.7 | 0.0  | 1   | 83 | 1.4  | 1.21  | 9.8   | 144 | SWEETIE PLUS % DAN BANSEN      | OR   |
| 2,121 AHLEM LEGAL CHERRY 36043           | 070047517       | 8K               | F   | 36043  | 1   | 71  | 904   | 0.02  | 45  | 0.02  | 36   | 354              | 322  | 307  | 3.14 | 1.4 | 0.1  | 1   | 88 | 1.8  | 3.03  | 7.5   | 144 | AHLEM, WILLIAM JR              | CA   |
| 2,122 GR FARIA BROTHERS ACE 62109        | 840003005641206 | 6K               | C   | 62109  | 3   | 73  | 1,476 | -0.19 | 32  | -0.09 | 35   | 255              | 295  | 342  | 3.10 | 2.0 | 0.1  | 0   | 90 | 1.1  | 3.42  | 6.9   | 144 | FARIA DAIRY                    | AZ   |
| 2,123 WINDY ACRES LOUIE SOOKIE           | 117318627       | 8K               | F   | 173    | 2   | 72  | 1,254 | -0.01 | 56  | -0.05 | 35   | 361              | 373  | 396  | 3.11 | 2.7 | 0.5  | 2   | 81 | 0.4  | 0.12  | 6.6   | 144 | GARDNER MARK & SHANNON         | PA   |
| 2,124 GR BERRYS GANNON MEDLEY ROXANNE-ET | 116825388       | 3K               |     | 918    | 1   | 68  | 1,161 | 0.00  | 54  | -0.04 | 35   | 327              | 320  | 321  | 2.96 | 1.9 | -0.2 | 0   |    | 0.4  | 1.90  | 6.4   | 144 | BERRY COLLEGE                  | GA   |
| 2,125 WILSONVIEW HEADLINE MIRRO          | 117297360       | 8K               | F   | 1743   | 1   | 71  | 1,100 | -0.02 | 46  | -0.02 | 34   | 384              | 381  | 390  | 3.09 | 3.9 | -0.4 | 1   | 79 | 0.9  | 1.63  | 7.2   | 144 | WILSONVIEW DAIRY               | OR   |
| 2,126 D&E HYATT BLITZEN 21548            | 067521548       | 50K              | C   | 21548  | 3   | 74  | 861   | -0.01 | 38  | 0.01  | 34   | 375              | 336  | 309  | 2.97 | 2.3 | 0.6  | 2   | 90 | 0.5  | 2.05  | 6.4   | 144 | D & E JERSEYS                  | TX   |
| 2,127 DP IMPULS PRILLY 522               | 116700933       | 3K               |     | 522    | 3   | 71  | 681   | 0.03  | 37  | 0.05  | 34   | 456              | 390  | 333  | 2.85 | 3.0 | 1.1  | 2   | 88 | 0.2  | 0.20  | 6.1   | 144 | DESERT PARK JERSEYS            | OR   |
| 2,128 GABYS RFI 42 TBONE 932             | 117424348       | 3K               |     | 932    | 1   | 67  | 520   | 0.20  | 61  | 0.08  | 34   | 421              | 342  | 277  | 2.94 | 1.1 | -0.6 | 0   |    | 1.4  | 2.32  | 8.4   | 144 | ROWLEY, STEVE                  | MS   |
| 2,129 CAL-MART IMPULS VERITY 3151        | 116950682       | 50K              | F   | 3151   | 2   | 72  | 342   | 0.31  | 74  | 0.12  | 34   | 535              | 432  | 349  | 2.97 | 2.2 | 0.6  | 2   | 74 | -0.2 | -0.49 | 5.4   | 144 | MARTIN DAIRY LLC               | OR   |
| 2,130 GR AHLEM GANNON CLOVER 32552       | 066621985       | 8K               | C   | 32552  | 3   | 73  | 1,653 | -0.25 | 28  | -0.13 | 33   | 250              | 310  | 368  | 2.93 | 2.5 | 0.3  | 3   | 85 | 1.2  | 3.10  | 5.8   | 144 | AHLEM, WILLIAM JR              | CA   |
| 2,131 GR BARHAMS GOOSE BRITT-ET          | 117266498       | 3K               |     | 735    | 1   | 68  | 1,044 | 0.00  | 49  | -0.02 | 33   | 398              | 379  | 360  | 2.81 | 2.2 | 0.8  | 1   | 83 | 0.9  | 1.16  | 4.5   | 144 | BARHAM JERSEY FARM             | TN   |
| 2,132 PINE HILL VERNON PAM               | 117171491       | 8K               | F   | 3426   | 2   | 72  | 748   | 0.15  | 62  | 0.03  | 33   | 433              | 390  | 363  | 3.06 | 2.4 | 0.4  | 2   | 84 | 0.8  | 0.28  | 6.4   | 144 | LINDSAYS PINE HILL JERSEY FARM | OH   |
| 2,133 SUMMETZ LEX BABS BRANDA            | 067134092       | 3K               |     | 4092   | 3   | 74  | 851   | 0.02  | 41  | 0.01  | 32   | 367              | 332  | 305  | 2.93 | 1.6 | -0.7 | 2   | 88 | 1.9  | 4.14  | 8.7   | 144 | SUMMIT FARM INC                | IA   |
| 2,134 JER-Z-BOYZ VERMEER 33317           | 117957712       | 3K               |     | 33317  | 2   | 70  | 771   | 0.22  | 77  | 0.02  | 32   | 468              | 438  | 425  | 3.14 | 3.4 | 0.8  | 1   | 77 | 0.0  | -1.71 | 5.8   | 144 | JER-Z-BOYZ                     | CA   |
| 2,135 RIVER VALLEY CARRIER SALINA I-ET   | 116908265       | 50K              | F   | 12056  | 2   | 75  | 1,277 | -0.13 | 34  | -0.02 | 31   | 322              | 345  | 368  | 2.92 | 2.8 | 0.7  | 2   | 87 | 1.0  | 2.34  | 7.6   | 144 | HEARTLAND JERSEYS              | KS   |
| 2,136 CAL-MART LEGAL FAITH 5395          | 067185395       | 6K               | F   | 5395   | 0   | 61  | 953   | 0.03  | 51  | -0.02 | 31   | 354              | 342  | 339  | 3.02 | 2.6 | -0.2 | 0   |    | 1.6  | 3.40  | 5.5   | 144 | MARTIN DAIRY LLC               | OR   |
| 2,137 CLOVER PATCH HEADLINE CADJ         | 117676549       | 8K               | F   | 2118   | 1   | 71  | 855   | -0.05 | 30  | 0.00  | 31   | 398              | 371  | 354  | 2.98 | 3.9 | 1.0  | 0   | 78 | 1.5  | 2.24  | 7.6   | 144 | KOZAK, ALAN                    | OH   |
| 2,138 HILMAR BENEFACOR 20458             | 067320458       | 6K               | F   | 20458  | 4   | 77  | 552   | 0.16  | 56  | 0.06  | 31   | 485              | 416  | 356  | 2.86 | 3.7 | -0.6 | 2   | 86 | 1.4  | 1.27  | 8.0   | 144 | AHLEM, CHARLES                 | CA   |
| 2,139 OOMSDALE GARYN BUNGY GENOA-ET      | 067080499       | 50K              | F   | 499    | 2   | 66  | 471   | 0.14  | 47  | 0.07  | 31   | 473              | 397  | 333  | 2.89 | 2.8 | 2.0  | 2   | 82 | 0.3  | 0.31  | 2.1   | 144 | OOMS, MICHAEL AREND            | NY   |
| 2,140 GR HILMAR MANTLE 26312             | 067326312       | 6K               | C   | 26312  | 2   | 70  | 1,440 | -0.11 | 45  | -0.11 | 30   | 331              | 382  | 432  | 2.98 | 3.2 | 0.1  | 1   | 80 | 1.6  | 2.80  | 3.9   | 144 | AHLEM, CHARLES                 | CA   |
| 2,141 LAST CHANCE ACADEMY ORCAS          | 067199119       | 3K               |     | 183    | 2   | 68  | 1,116 | -0.07 | 36  | -0.05 | 30   | 312              | 320  | 333  | 2.98 | 2.9 | 1.0  | 2   | 90 | 1.0  | 3.97  | 4.4   | 144 | WINTER BOB & DARLENE           | WI   |
| 2,142 CAL-MART HEADLINE MELLY 3928       | 117514108       | 3K               |     | 3928   | 1   | 70  | 870   | 0.02  | 44  | -0.01 | 30   | 391              | 372  | 361  | 2.98 | 3.8 | 0.6  | 0   | 75 | 1.1  | 2.08  | 8.1   | 144 | MARTIN DAIRY LLC               | OR   |
| 2,143 GR AHLEM GANNON TRACY 32562        | 066621995       | 8K               | F   | 32562  | 3   | 75  | 731   | 0.11  | 53  | 0.02  | 30   | 390              | 348  | 311  | 2.85 | 1.5 | 0.6  | 2   | 78 | 0.9  | 2.56  | 7.2   | 144 | AHLEM, WILLIAM JR              | CA   |
| 2,144 LAWTONS VALENTINO THUMPER          | 117477944       | 3K               |     | 879    | 1   | 70  | 719   | -0.01 | 31  | 0.03  | 30   | 361              | 320  | 288  | 2.95 | 2.4 | -0.3 | 1   | 86 | 1.8  | 4.78  | 9.5   | 144 | LAWTON, MERLE                  | NY   |
| 2,145 MULTI-ROSE RAY 3231                | 067183231       | 8K               | F   | 3231   | 1   | 72  | 669   | 0.05  | 38  | 0.04  | 30   | 411              | 357  | 306  | 2.79 | 2.1 | -0.1 | 2   | 88 | 1.8  | 3.59  | 7.0   | 144 | MULTI ROSE JERSEYS INC         | IA   |
| 2,146 PINE HILL TBONE RHIANA             | 117506176       | 3K               |     | 3604   | 1   | 69  | 661   | 0.08  | 44  | 0.03  | 30   | 353              | 311  | 281  | 3.02 | 1.8 | -0.3 | 1   | 81 | 1.2  | 4.67  | 8.1   | 144 | LINDSAYS PINE HILL JERSEY FARM | OH   |
| 2,147 CAL-MART TBONE PANDORA 2979        | 116829122       | 8K               | F   | 2979   | 2   | 73  | 592   | 0.22  | 67  | 0.05  | 30   | 438              | 383  | 338  | 2.95 | 1.9 | -0.2 | 2   | 85 | 1.0  | 1.88  | 7.7   | 144 | MARTIN DAIRY LLC               | OR   |
| 2,148 AHLEM TBONE TARA 33448             | 066622881       | 8K               | F   | 33448  | 1   | 72  | 354   | 0.22  | 57  | 0.09  | 30   | 409              | 326  | 255  | 2.92 | 1.6 | -1.4 | 1   | 87 | 1.9  | 4.42  | 10.0  | 144 | AHLEM, WILLIAM JR              | CA   |
| 2,149 PR DP JARRETS GANNON KENDRA 556    | 116701215       | 3K               |     | 556    | 2   | 72  | 1,328 | -0.21 | 20  | -0.10 | 29   | 319              | 356  | 393  | 2.95 | 3.3 | 0.9  | 2   | 88 | 0.7  | 3.46  | 8.2   | 144 | DESERT PARK JERSEYS            | OR   |
| 2,150 GR HEI-BRI GANNON DIXIE            | 067100634       | 6K               | F   | 634    | 1   | 69  | 992   | 0.04  | 51  | -0.03 | 29   | 371              | 363  | 353  | 2.81 | 2.5 | 0.2  | 1   | 73 | 1.1  | 2.76  | 5.4   | 144 | HETTINGA, MEGHAN               | IA   |

# November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    | Owner | ST    |      |     |                            |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|-------|-------|------|-----|----------------------------|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS |       |       | PTAT | JUI | GFI                        | GJPI |
| 2,151 CINNAMON RIDGE RENEGADE SHERLOCK  | 117537039       | 8K  | F   | 871              | 1   | 71  | 689   | 0.13  | 57  | 0.02  | 29   | 447  | 408  | 378              | 2.95 | 3.4 | 0.2  | 0   | 69 | 0.9   | 0.97  | 7.7  | 144 | MAXWELL, KARA ALICE        | IA   |
| 2,152 CAL-MART MAXIMUM CAMRI 2894       | 116770240       | 3K  |     | 2894             | 3   | 69  | 534   | 0.22  | 64  | 0.05  | 29   | 458  | 403  | 360              | 3.01 | 3.0 | 0.1  | 2   | 84 | 0.7   | 1.52  | 4.6  | 144 | MARTIN DAIRY LLC           | OR   |
| 2,153 SUNSET CANYON MATINEE I MAID      | 117340871       | 5K  | F   | 1955             | 1   | 67  | 465   | 0.29  | 77  | 0.07  | 29   | 483  | 424  | 383              | 3.12 | 2.7 | 1.2  | 1   | 84 | 0.5   | 0.37  | 4.1  | 144 | SILVA, ERIC LEONARD        | OR   |
| 2,154 BUTTERCREST ARTIST GODIVA-ET      | 114920078       | 50K | C   | 196              | 5   | 84  | 1,055 | -0.16 | 17  | -0.05 | 28   | 389  | 395  | 402              | 2.90 | 4.4 | 1.1  | 2   | 86 | 0.7   | 2.05  | 6.5  | 144 | BUTTERCREST JERSEYS        | OH   |
| 2,155 ALOHA LEGAL IATOLA N22498-ET      | 840003006458268 | 3K  |     | 22498            | 1   | 69  | 1,028 | -0.09 | 30  | -0.05 | 28   | 367  | 375  | 390              | 3.03 | 3.9 | 0.9  | 1   | 81 | 1.3   | 3.54  | 6.8  | 144 | RUSSELL, LARS WILLIAM      | CA   |
| 2,156 YOSEMITE BRAZO ARTIST H4197       | 840003001469713 | 3K  |     | 4197             | 4   | 75  | 1,000 | -0.09 | 29  | -0.04 | 28   | 367  | 368  | 372              | 2.94 | 3.8 | 0.1  | 2   | 84 | 1.2   | 3.12  | 8.4  | 144 | YOSEMITE JERSEY DAIRY      | CA   |
| 2,157 CAL-MART LEGAL MAIA 3588          | 117242744       | 8K  | C   | 3588             | 2   | 70  | 855   | -0.01 | 38  | -0.02 | 28   | 419  | 402  | 389              | 2.90 | 3.8 | 0.4  | 1   | 81 | 1.2   | 2.30  | 6.7  | 144 | MARTIN DAIRY LLC           | OR   |
| 2,158 KUTZ TBONE 5793                   | 840003001132817 | 3K  |     | 5793             | 4   | 75  | 742   | 0.10  | 51  | 0.01  | 28   | 457  | 421  | 388              | 2.84 | 3.7 | -0.1 | 2   | 87 | 1.5   | 1.72  | 9.2  | 144 | KUTZ DAIRY LLC             | WI   |
| 2,159 HETTINGAS ACTION BLING            | 067107388       | 3K  |     | 388              | 0   | 64  | 632   | 0.00  | 31  | 0.03  | 28   | 388  | 349  | 320              | 3.00 | 3.2 | 1.1  | 0   |    | 1.6   | 3.52  | 7.8  | 144 | HETTINGA, JASON            | IA   |
| 2,160 GR BELLWOOD GANNON ARIEL          | 116826996       | 3K  |     | 219              | 1   | 65  | 1,015 | -0.05 | 37  | -0.05 | 27   | 345  | 351  | 359              | 2.92 | 3.5 | 0.8  | 0   |    | 1.1   | 3.27  | 4.5  | 144 | CAMP, ROGER D JR           | LA   |
| 2,161 TOLLENAAR MATINEE 4943            | 062953857       | 3K  |     | 4943             | 2   | 71  | 808   | 0.12  | 62  | -0.02 | 27   | 462  | 442  | 424              | 2.87 | 3.6 | 0.1  | 3   | 88 | 0.8   | 1.23  | 7.5  | 144 | TOLLENAAR JERSEYS          | CA   |
| 2,162 CLOVER PATCH LEGAL CADILLAC       | 117676615       | 8K  | C   | 2125             | 1   | 69  | 713   | -0.04 | 28  | 0.01  | 27   | 391  | 364  | 344              | 2.94 | 4.0 | -0.1 | 0   | 77 | 1.5   | 4.75  | 7.3  | 144 | KOZAK, ALAN                | OH   |
| 2,163 DUPAT KANOO 8814-ET               | 067148814       | 3K  |     | 8814             | 0   | 61  | 577   | 0.06  | 35  | 0.04  | 27   | 439  | 394  | 359              | 2.97 | 4.4 | 0.8  | 0   | 71 | 0.5   | 2.13  | 4.8  | 144 | WICKSTROM JERSEY FARMS INC | CA   |
| 2,164 CELESTIAL JEON KIWI               | 116716785       | 50K | F   | 600              | 3   | 76  | 674   | 0.07  | 46  | 0.02  | 26   | 451  | 417  | 387              | 2.88 | 4.4 | 0.5  | 3   | 89 | 0.7   | 1.75  | 8.9  | 144 | TATE, BROCK                | CA   |
| 2,165 BW RENEGADE ELISE U995            | 117375037       | 3K  |     | 1341             | 1   | 69  | 482   | 0.24  | 66  | 0.04  | 26   | 478  | 433  | 401              | 3.07 | 3.6 | 0.9  | 1   | 81 | 1.2   | 0.92  | 6.6  | 144 | BRENTWOOD FARMS            | CA   |
| 2,166 FOREST GLEN ALEXANDERS GLORY      | 067354357       | 8K  | F   | 4357             | 1   | 72  | 414   | 0.13  | 45  | 0.06  | 26   | 444  | 387  | 342              | 2.97 | 3.3 | 0.6  | 0   | 79 | 1.3   | 2.87  | 9.0  | 144 | BANSEN STANLEY K & DORA H  | OR   |
| 2,167 BW LEGION CHARLIE ET550-ET        | 115955723       | 3K  |     | 1136             | 3   | 74  | 902   | -0.03 | 36  | -0.04 | 25   | 360  | 363  | 370              | 2.98 | 3.2 | -0.3 | 2   | 91 | 2.0   | 5.23  | 9.4  | 144 | BRENTWOOD FARMS            | CA   |
| 2,168 SUNSET CANYON NAVARA LV MAID 1-ET | 117023622       | 50K | F   | 1865             | 1   | 71  | 142   | 0.34  | 71  | 0.11  | 25   | 514  | 424  | 348              | 2.95 | 3.2 | -0.3 | 1   | 86 | 1.1   | 2.31  | 5.1  | 144 | RIVER VALLEY FARM          | IL   |
| 2,169 SUNSET CANYON IMPULS L MAID 3-ET  | 116519650       | 50K | F   | 1747             | 2   | 71  | 82    | 0.34  | 67  | 0.11  | 25   | 521  | 426  | 346              | 2.95 | 3.6 | -0.4 | 2   | 86 | 1.1   | 2.64  | 4.4  | 144 | SILVA, ERIC LEONARD        | OR   |
| 2,170 CAL-MART LOTTO LAVINA 5156        | 067385156       | 6K  | F   | 5156             | 1   | 71  | 697   | 0.10  | 51  | -0.01 | 24   | 480  | 453  | 425              | 2.77 | 4.5 | 0.9  | 0   | 77 | 0.8   | 1.08  | 8.3  | 144 | MARTIN DAIRY LLC           | OR   |
| 2,171 VALSIGNA CELEBRITY 18057          | 117727115       | 3K  |     | 18057            | 1   | 70  | 664   | 0.07  | 43  | -0.01 | 24   | 467  | 438  | 408              | 2.80 | 4.7 | 0.4  | 0   |    | 0.9   | 1.31  | 8.8  | 144 | WICKSTROM DAIRIES, LP      | CA   |
| 2,172 D&E LEGAL ELVIRA 22219            | 067422219       | 3K  |     | 22219            | 1   | 67  | 519   | 0.08  | 39  | 0.03  | 24   | 391  | 357  | 334              | 3.02 | 3.7 | -0.2 | 0   | 77 | 1.6   | 5.74  | 6.3  | 144 | D & E JERSEYS              | TX   |
| 2,173 ARTIST 2487 OF DUPAT              | 067062487       | 3K  |     | 2487             | 5   | 75  | 703   | 0.04  | 40  | -0.02 | 23   | 434  | 421  | 412              | 2.95 | 4.6 | 0.1  | 3   | 88 | 1.3   | 3.67  | 5.7  | 144 | WICKSTROM JERSEY FARMS INC | CA   |
| 2,174 WILSONVIEW LEGAL BRYISIE          | 117594775       | 3K  |     | 1847             | 1   | 69  | 573   | 0.04  | 34  | 0.01  | 23   | 413  | 380  | 350              | 2.87 | 3.9 | 0.1  | 0   | 79 | 2.0   | 5.02  | 8.3  | 144 | WILSONVIEW DAIRY           | OR   |
| 2,175 HI-LAND ALEXANDER MARGIE          | 067146412       | 3K  |     | 6412             | 2   | 72  | 513   | 0.08  | 39  | 0.02  | 23   | 449  | 417  | 391              | 2.97 | 4.5 | 0.9  | 1   | 86 | 1.0   | 3.17  | 8.0  | 144 | CHAMBERLAIN, DAVID R       | NY   |
| 2,176 PIEDMONT ROCKET LINDA             | 117740354       | 8K  | F   | 1955             | 1   | 70  | 639   | -0.11 | 9   | 0.00  | 22   | 350  | 335  | 326              | 2.98 | 3.7 | 2.2  | 0   | 86 | 1.5   | 5.16  | 6.9  | 144 | LUTZ, COREY ALAN           | NC   |
| 2,177 VALSIGNA KILOWATT 17457           | 117611337       | 3K  |     | 17457            | 1   | 70  | 612   | -0.03 | 23  | -0.01 | 20   | 405  | 395  | 391              | 2.99 | 5.4 | 1.0  | 1   | 78 | 0.8   | 4.53  | 8.4  | 144 | WICKSTROM DAIRIES, LP      | CA   |
| 2,178 FAIRWAY L LINDA-ET                | 067147204       | 8K  | F   | 7204             | 4   | 77  | 206   | 0.19  | 45  | 0.06  | 20   | 491  | 431  | 380              | 2.96 | 4.6 | 1.5  | 3   | 86 | 0.8   | 1.70  | 8.5  | 144 | FAIRWAY JERSEYS            | VA   |
| 2,179 BARHAMS IMPULS BAMBI              | 116806406       | 8K  | F   | 632              | 2   | 72  | 85    | 0.22  | 44  | 0.09  | 19   | 470  | 401  | 342              | 2.96 | 3.8 | 0.9  | 2   | 87 | 1.4   | 5.31  | 5.8  | 144 | BARHAM, TANNER             | TN   |
| 2,180 AHLEM IATOLA PEGGY 31730          | 066069114       | 8K  | F   | 31730            | 3   | 75  | 324   | 0.04  | 21  | 0.01  | 13   | 386  | 370  | 357              | 2.96 | 4.4 | 1.4  | 2   | 85 | 2.0   | 7.41  | 8.3  | 144 | AHLEM, WILLIAM JR          | CA   |
| 2,181 GR CAL-MART ZUMA JUDY 5298        | 067245298       | 6K  | F   | 5298             | 1   | 63  | 67    | 0.22  | 44  | 0.04  | 10   | 503  | 455  | 404              | 2.73 | 4.5 | 1.2  | 0   | 80 | 1.0   | 4.60  | 3.4  | 144 | MARTIN DAIRY LLC           | OR   |
| 2,182 AHLEM CELEBRITY CAYMAN 35098      | 069042304       | 8K  | F   | 35098            | 2   | 74  | 69    | 0.20  | 39  | 0.02  | 5    | 453  | 438  | 425              | 2.97 | 5.3 | 1.2  | 1   | 85 | 1.5   | 6.69  | 9.4  | 144 | AHLEM, WILLIAM JR          | CA   |
| 2,183 PR FARIA BROTHERS NASRALLAH 57462 | 840003006316012 | 6K  | C   | 57462            | 2   | 68  | 1,609 | -0.02 | 70  | -0.06 | 46   | 338  | 342  | 357              | 3.03 | 0.7 | -1.1 | 1   | 69 | 0.4   | -0.78 | 4.6  | 143 | FARIA BROS DAIRIES         | TX   |
| 2,184 FARIA BROTHERS VALENTINO 103309   | 840003009425020 | 6K  | F   | 103309           | 0   | 64  | 1,114 | 0.06  | 62  | 0.03  | 43   | 355  | 316  | 294              | 3.07 | 1.1 | -0.8 | 0   |    | 1.2   | 0.35  | 6.3  | 143 | FARIA DAIRY                | AZ   |
| 2,185 DP TBONE HESTER 639               | 067081639       | 3K  |     | 639              | 1   | 70  | 800   | 0.13  | 62  | 0.08  | 42   | 368  | 293  | 237              | 3.03 | 0.0 | -1.2 | 1   | 88 | 1.5   | 1.78  | 9.7  | 143 | DESERT PARK JERSEYS        | OR   |
| 2,186 D&E ABE ASTRID 21888              | 067421888       | 3K  |     | 21888            | 1   | 69  | 1,436 | -0.19 | 29  | -0.06 | 41   | 364  | 367  | 377              | 2.97 | 3.6 | -0.3 | 1   | 78 | 0.1   | -1.40 | 7.3  | 143 | D & E JERSEYS              | TX   |
| 2,187 SLYE HOLLOW VIBRANT FAIRYTALE     | 117245019       | 3K  |     | 158              | 1   | 69  | 1,361 | -0.06 | 49  | -0.05 | 39   | 357  | 365  | 386              | 3.11 | 3.4 | -0.6 | 1   | 78 | 0.2   | -0.20 | 8.3  | 143 | FERRISDALE FARM            | VT   |
| 2,188 DBW HEADLINE ELIVA                | 117335235       | 6K  | F   | 485              | 1   | 70  | 1,314 | -0.10 | 40  | -0.04 | 39   | 341  | 345  | 363              | 3.13 | 3.2 | 0.4  | 0   |    | 0.8   | 0.67  | 7.7  | 143 | WRIGHT DERRICK OR BEVERLY  | VT   |
| 2,189 GR FARIA BROTHERS STONE 64728     | 840003006263179 | 8K  | C   | 64728            | 2   | 68  | 1,113 | 0.05  | 61  | 0.00  | 39   | 368  | 334  | 306              | 2.85 | 0.9 | -0.8 | 0   |    | 0.2   | 0.63  | 4.2  | 143 | FARIA DAIRY                | AZ   |
| 2,190 SUNWEST PRIMER ARTIST M26918      | 840003006187710 | 3K  |     | 26918            | 2   | 72  | 1,173 | -0.09 | 37  | -0.02 | 38   | 362  | 333  | 306              | 2.75 | 1.3 | -0.9 | 3   | 85 | 0.6   | 1.57  | 8.1  | 143 | SUNWEST JERSEY DAIRY       | CA   |
| 2,191 PR FARIA BROTHERS MAXIMUM 24121   | 840003001575898 | 6K  | F   | 24121            | 4   | 67  | 1,018 | 0.09  | 63  | 0.01  | 37   | 399  | 369  | 351              | 3.02 | 2.2 | -0.6 | 0   | 85 | 0.2   | 0.39  | 3.2  | 143 | FARIA DAIRY                | AZ   |
| 2,192 VALSIGNA PLACIDO 12936            | 116588948       | 3K  |     | 12936            | 3   | 73  | 968   | -0.01 | 43  | 0.02  | 37   | 422  | 385  | 360              | 2.99 | 3.0 | 0.6  | 2   | 69 | -0.2  | -0.99 | 7.1  | 143 | WICKSTROM DAIRIES, LP      | CA   |
| 2,193 GR VIDA BOA IMPULS 14078          | 067314078       | 6K  | F   | 14078            | 2   | 61  | 962   | 0.13  | 69  | 0.01  | 37   | 364  | 335  | 323              | 3.11 | 1.0 | 0.4  | 1   | 81 | 0.7   | 1.13  | 2.8  | 143 | VIDA BOA FARMS             | CA   |
| 2,194 LITTLE RIVER IMPULS SORREL        | 115122790       | 3K  |     | 4043             | 4   | 72  | 955   | -0.05 | 33  | 0.02  | 37   | 418  | 377  | 347              | 2.95 | 3.2 | 0.2  | 3   | 90 | 0.5   | 0.11  | 5.8  | 143 | IVERSON, LUCAS             | WA   |
| 2,195 JARS OF CLAY TBONE BRITNEY        | 067243214       | 8K  | F   | 3214             | 1   | 72  | 867   | 0.03  | 46  | 0.03  | 37   | 369  | 325  | 299              | 3.09 | 2.1 | -0.3 | 2   | 82 | 1.0   | 2.15  | 8.7  | 143 | RANCHO TERESITA DAIRY      | CA   |
| 2,196 GR HILMAR MERCHANT 29078          | 067329078       | 6K  | F   | 29078            | 1   | 73  | 750   | 0.08  | 50  | 0.05  | 37   | 348  | 287  | 241              | 3.01 | 0.6 | -1.3 | 1   | 86 | 1.7   | 3.70  | 9.3  | 143 | DINIS, ANNA MARIA          | CA   |
| 2,197 D&E CACTUS BLITZER 22263          | 067422263       | 3K  |     | 22263            | 1   | 69  | 1,375 | -0.08 | 48  | -0.07 | 36   | 295  | 322  | 363              | 3.21 | 1.8 | 1.3  | 1   | 83 | 0.9   | 1.07  | 6.9  | 143 | D & E JERSEYS              | TX   |
| 2,198 MILLS LOUIE LORINDA               | 117504594       | 8K  | F   | 7164             | 1   | 69  | 1,294 | -0.04 | 52  | -0.06 | 36   | 396  | 401  | 409              | 2.93 | 3.1 | 0.1  | 1   | 84 | 0.4   | -0.46 | 7.0  | 143 | MILLS JERSEY FARM LLC      | NV   |
| 2,199 O.F. LOUIE LIZZIE                 | 067277397       | HD  | C   | 7397             | 1   | 73  | 1,155 | 0.00  | 52  | -0.02 | 36   | 401  | 384  | 372              | 2.87 | 2.8 | 0.0  | 1   | 72 | 0.3   | -0.16 | 7.5  | 143 | OWENS FARMS INC            | WI   |
| 2,200 D&E ATHENS BRENNA 22170           | 067422170       | 3K  |     | 22170            | 1   | 69  | 877   | 0.16  | 70  | 0.02  | 36   | 495  | 448  | 410              | 2.90 | 3.0 | 0.6  | 1   | 76 | 0.1   | -2.26 | 8.7  | 143 | D & E JERSEYS              | TX   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                      | Reg #            | GT | JH1 | GPTA   |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      | Owner | ST   |     |   |      |
|---|------------------|----|-----|--------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|------|-----|---|------|
|   |                  |    |     | CCN    | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI   | GJPI |
| 2.201 YOSEMITE COUNTRY ARTIST H3493       | 840003001259076  | 3K |     | 3493   | 3   | 72  | 728   | 0.03  | 41  | 0.05  | 35   | 435  | 377  | 333  | 2.99 | 2.8 | 1.0  | 3   | 83 | 0.2  | -0.24 | 7.1  | 143 | MARTINS BROTHERS                            | CA   |
| 2.202 GR FARIA BROTHERS ACE 65565         | 840003006264016  | 6K | F   | 65565  | 2   | 68  | 1,752 | -0.20 | 43  | -0.16 | 34   | 278  | 349  | 420  | 3.00 | 2.7 | 0.4  | 1   | 79 | 0.2  | 1.16  | 2.4  | 143 | FARIA DAIRY                                 | AZ   |
| 2.203 DUPAT HEADLINE 7580-ET              | 067297580        | 3K |     | 7580   | 2   | 74  | 1,522 | -0.24 | 22  | -0.11 | 34   | 244  | 292  | 346  | 3.08 | 3.6 | -0.6 | 2   | 88 | 1.5  | 4.54  | 9.5  | 143 | WICKSTROM JERSEY FARMS INC                  | CA   |
| 2.204 GR VALSIGNA KANOO 16727             | 117419935        | 3K |     | 16727  | 1   | 69  | 1,109 | -0.04 | 43  | -0.03 | 34   | 378  | 378  | 389  | 3.09 | 3.6 | 1.1  | 1   | 80 | 0.6  | 0.21  | 6.3  | 143 | WICKSTROM DAIRIES, LP                       | CA   |
| 2.205 DUTCH HOLLOW JEVON MELINDA 824-ET   | 116510884        | 3K |     | 3824   | 3   | 74  | 1,009 | 0.11  | 67  | -0.01 | 34   | 427  | 398  | 371  | 2.79 | 2.2 | -1.0 | 4   | 91 | 1.3  | 1.21  | 6.8  | 143 | CHITTENDEN, PAUL C                          | NY   |
| 2.206 GR HILMAR MAGNUM 29959              | 067329959        | 6K | F   | 29959  | 1   | 69  | 755   | 0.10  | 52  | 0.04  | 34   | 393  | 342  | 303  | 2.94 | 1.5 | -0.1 | 1   | 84 | 0.7  | 1.89  | 5.8  | 143 | AHLEM, CHARLES                              | CA   |
| 2.207 HILMAR HIGH & DRY 21884             | 067621884        | 3K |     | 21884  | 4   | 74  | 728   | 0.05  | 44  | 0.04  | 34   | 357  | 313  | 287  | 3.14 | 1.9 | 0.2  | 2   | 85 | 0.9  | 2.06  | 7.6  | 143 | AHLEM, CHARLES                              | CA   |
| 2.208 AHLEM BROTHERS IMPULS 15673         | 840003004558613  | 3K |     | 15673  | 3   | 71  | 723   | 0.06  | 44  | 0.04  | 34   | 415  | 363  | 329  | 3.07 | 2.0 | 1.6  | 2   | 81 | 0.7  | 0.73  | 5.5  | 143 | AHLEM BROTHERS                              | CA   |
| 2.209 DEN-KEL JEVON JATTY-ET              | 067078655        | 3K |     | 655    | 2   | 73  | 552   | 0.09  | 43  | 0.07  | 34   | 451  | 368  | 295  | 2.82 | 3.1 | -1.2 | 2   | 86 | 1.1  | 2.28  | 6.1  | 143 | KELLER, KIP A                               | NY   |
| 2.210 PEARLMONT IMPULS MARVEL             | 067057293        | 3K |     | 293    | 3   | 71  | 367   | 0.15  | 45  | 0.11  | 34   | 417  | 333  | 277  | 3.24 | 2.6 | 0.4  | 2   | 90 | 1.2  | 2.36  | 7.3  | 143 | HILLOVER HOLSTEINS & JERSEYS, A/S REMI GUAY | QC   |
| 2.211 BUTTERCREST HEADLINE MEGA           | 117429147        | 3K |     | 469    | 1   | 71  | 1,576 | -0.30 | 15  | -0.12 | 33   | 318  | 371  | 423  | 2.97 | 4.9 | 0.5  | 1   | 87 | 0.8  | 2.02  | 8.4  | 143 | COOPERRIDER & SONS                          | OH   |
| 2.212 SCHULTZ HEADLINE RAYNA              | 067296125        | 3K |     | 125    | 2   | 71  | 1,404 | -0.17 | 33  | -0.09 | 33   | 366  | 396  | 426  | 2.93 | 4.6 | 0.3  | 1   | 84 | 0.7  | 0.98  | 7.7  | 143 | HUFFARD DAIRY FARMS                         | VA   |
| 2.213 DP KCLASSIC GWEN 9291               | 114787266        | 3K |     | 9291   | 5   | 75  | 1,289 | -0.14 | 32  | -0.07 | 33   | 357  | 370  | 384  | 2.90 | 3.4 | 0.4  | 2   | 87 | 0.0  | 0.90  | 7.3  | 143 | DESERT PARK JERSEYS                         | OR   |
| 2.214 SUN VALLEY LOUIE HAVANNA            | 117115297        | 3K |     | 6      | 2   | 68  | 1,149 | 0.07  | 66  | -0.03 | 33   | 409  | 413  | 427  | 3.07 | 3.5 | 0.8  | 2   | 80 | 0.2  | -0.53 | 5.9  | 143 | WILSONVIEW DAIRY                            | OR   |
| 2.215 GR FARIA BROTHERS SHAWNEE 63846     | 840003005642943  | 3K |     | 63846  | 3   | 71  | 1,096 | -0.01 | 48  | -0.03 | 33   | 395  | 389  | 389  | 2.95 | 3.1 | 1.0  | 0   |    | 0.6  | -0.53 | 6.5  | 143 | FARIA DAIRY                                 | AZ   |
| 2.216 VALSIGNA ICE 18312                  | 117729313        | 6K | F   | 18312  | 0   | 65  | 981   | 0.08  | 60  | -0.02 | 33   | 386  | 369  | 360  | 3.00 | 1.4 | 0.0  | 0   | 81 | 1.1  | 1.34  | 8.0  | 143 | WICKSTROM DAIRIES, LP                       | CA   |
| 2.217 RICHIES TBONE GRIETJE               | 115723900        | 3K |     | 25     | 3   | 74  | 879   | -0.05 | 31  | 0.01  | 33   | 308  | 279  | 262  | 3.05 | 1.5 | 0.1  | 2   | 77 | 1.8  | 3.86  | 9.5  | 143 | DEBOER, NICO                                | TX   |
| 2.218 BW BLACKSTONE TYRA S429             | 116492119        | 3K |     | 747    | 2   | 74  | 873   | -0.02 | 38  | 0.00  | 33   | 339  | 313  | 303  | 3.11 | 2.1 | 0.1  | 3   | 90 | 1.8  | 3.80  | 7.8  | 143 | BRENTWOOD FARMS                             | CA   |
| 2.219 PR FARIA BROTHERS APPARTITION 16773 | 840003001574718  | 3K |     | 16773  | 4   | 69  | 827   | 0.09  | 53  | 0.03  | 33   | 389  | 355  | 333  | 3.04 | 2.0 | 0.5  | 0   | 88 | 1.0  | 2.00  | 5.1  | 143 | FARIA DAIRY                                 | AZ   |
| 2.220 GR FARIA BROTHERS RENEGADE 69040    | 8400030071171158 | 6K | C   | 69040  | 1   | 72  | 540   | 0.23  | 68  | 0.07  | 33   | 478  | 407  | 350  | 2.96 | 2.4 | -0.1 | 1   | 81 | 0.8  | 0.17  | 8.5  | 143 | FARIA DAIRY                                 | AZ   |
| 2.221 DP IMPULS IRENE 638                 | 067081638        | 8K | F   | 638    | 2   | 70  | 399   | 0.13  | 43  | 0.10  | 33   | 456  | 360  | 277  | 2.86 | 2.1 | 0.3  | 1   | 90 | 0.6  | 2.09  | 4.8  | 143 | DESERT PARK JERSEYS                         | OR   |
| 2.222 GRAMMER VALENTINO SABOR             | 067233390        | 3K |     | 3390   | 1   | 70  | 1,205 | -0.04 | 47  | -0.05 | 32   | 356  | 363  | 372  | 2.88 | 3.0 | -1.3 | 1   | 78 | 1.5  | 2.78  | 7.9  | 143 | GRAMMER JERSEY FARM LLC                     | OH   |
| 2.223 HOUSLEYS ARTIST H195                | 114603959        | 3K |     | 195    | 5   | 72  | 957   | -0.02 | 41  | -0.01 | 32   | 449  | 417  | 384  | 2.74 | 3.6 | 0.2  | 3   | 72 | 0.1  | -0.52 | 5.7  | 143 | HOUSLEY, CURTIS EDWARD                      | TN   |
| 2.224 HILMAR KILOWATT 32754               | 067432754        | 6K | F   | 32754  | 1   | 72  | 784   | 0.09  | 53  | 0.02  | 32   | 385  | 349  | 328  | 3.06 | 1.8 | 0.7  | 1   | 79 | 0.9  | 0.70  | 9.5  | 143 | AHLEM, CHARLES                              | CA   |
| 2.225 PHILS SPARKY FLINT 6309             | 117312171        | 3K |     | 6309   | 1   | 70  | 757   | 0.10  | 54  | 0.03  | 32   | 407  | 363  | 330  | 2.96 | 2.3 | -0.5 | 1   | 83 | 1.2  | 2.27  | 7.5  | 143 | FANELLI, PHIL V                             | CA   |
| 2.226 VALSIGNA KILOWATT 17385             | 117610662        | 3K |     | 17385  | 1   | 70  | 871   | -0.07 | 28  | 0.00  | 31   | 401  | 377  | 360  | 2.96 | 4.2 | 0.4  | 1   | 73 | 0.6  | 1.63  | 7.7  | 143 | WICKSTROM DAIRIES, LP                       | CA   |
| 2.227 CAMPBELLS RUN HOUSTON VALEN-ET      | 070332411        | 8K | C   | 3530   | 0   | 68  | 800   | -0.04 | 30  | 0.01  | 31   | 393  | 354  | 321  | 2.88 | 3.3 | -0.3 | 0   |    | 1.1  | 2.71  | 7.7  | 143 | MEYERS, STEVEN CRAIG                        | PA   |
| 2.228 PR FARIA BROTHERS ALLSTAR 93679     | 840003008538047  | 8K | F   | 93679  | 1   | 62  | 691   | 0.14  | 58  | 0.03  | 31   | 370  | 322  | 285  | 2.96 | 0.8 | -0.3 | 0   |    | 1.6  | 4.07  | 1.7  | 143 | FARIA BROS DAIRIES                          | TX   |
| 2.229 BW ECLIPES NANCY ET844-ET           | 117698125        | 3K |     | 268    | 0   | 64  | 679   | 0.12  | 54  | 0.03  | 31   | 339  | 297  | 269  | 3.05 | 1.0 | -0.5 | 0   | 81 | 1.8  | 4.13  | 7.8  | 143 | BRENTWOOD FARMS                             | CA   |
| 2.230 AHLEM LEGAL TIFFANY 35502           | 069042708        | 8K | F   | 35502  | 2   | 71  | 596   | -0.01 | 24  | 0.05  | 31   | 371  | 318  | 279  | 3.04 | 2.9 | 0.7  | 1   | 78 | 1.9  | 4.07  | 7.1  | 143 | AHLEM, WILLIAM JR                           | CA   |
| 2.231 BERRYS TBONE BRIANE                 | 117083802        | 3K |     | 1005   | 0   | 62  | 416   | 0.21  | 58  | 0.08  | 31   | 406  | 334  | 282  | 3.10 | 1.9 | 0.6  | 0   |    | 1.4  | 2.14  | 7.6  | 143 | BERRY COLLEGE                               | GA   |
| 2.232 JCJ IMPULS 20264                    | 8400030059711472 | 8K | C   | 20264  | 3   | 72  | 159   | 0.28  | 61  | 0.13  | 31   | 479  | 372  | 283  | 2.98 | 1.2 | 1.3  | 2   | 84 | 0.6  | 0.85  | 5.6  | 143 | AHLEM, JAMES                                | CA   |
| 2.233 D&E HEADLINE BETTY 22327            | 067422327        | 3K |     | 22327  | 1   | 69  | 1,183 | -0.16 | 26  | -0.07 | 30   | 401  | 416  | 433  | 2.94 | 5.1 | 1.5  | 0   | 79 | 0.3  | -0.74 | 7.5  | 143 | D & E JERSEYS                               | TX   |
| 2.234 TOLLENAAR LOUIE 4389                | 062953303        | 3K |     | 4389   | 4   | 72  | 1,023 | -0.03 | 42  | -0.03 | 30   | 396  | 396  | 406  | 3.05 | 4.3 | 0.6  | 2   | 84 | 0.6  | 1.45  | 6.3  | 143 | TOLLENAAR JERSEYS                           | CA   |
| 2.235 HIGHLAND HEADLINE A DELORES         | 067222759        | 3K |     | 2759   | 1   | 71  | 1,326 | -0.23 | 17  | -0.09 | 29   | 324  | 368  | 417  | 3.08 | 5.1 | 1.1  | 1   | 81 | 1.5  | 2.70  | 7.6  | 143 | HIGHLAND FARMS                              | ME   |
| 2.236 PR FARIA BROTHERS BOOKMARK 90964    | 840003008304074  | 3K |     | 90964  | 1   | 46  | 957   | 0.02  | 45  | -0.02 | 29   | 349  | 345  | 349  | 3.04 | 3.4 | 0.9  | 1   | 80 | 1.0  | 3.28  | 0.7  | 143 | FARIA BROS DAIRIES                          | TX   |
| 2.237 AHLEM HALLMARK MAGGIE 19525         | 064553079        | 3K |     | 19525  | 4   | 76  | 860   | -0.07 | 26  | -0.01 | 29   | 345  | 327  | 315  | 2.95 | 2.4 | 0.9  | 2   | 84 | 1.0  | 3.69  | 8.9  | 143 | AHLEM, WILLIAM JR                           | CA   |
| 2.238 GABYS JUSTIN RHUBARB                | 117274390        | 3K |     | 646    | 2   | 72  | 726   | 0.11  | 55  | 0.02  | 29   | 365  | 331  | 304  | 2.95 | 1.4 | -0.9 | 2   | 88 | 2.2  | 4.77  | 10.4 | 143 | ORTHURIDGE FARMS & BAUER DAN                | WI   |
| 2.239 HI-LAND SEDRIC MARGIE               | 067146677        | 8K | F   | 6677   | 1   | 68  | 535   | 0.20  | 62  | 0.06  | 29   | 443  | 386  | 341  | 2.99 | 3.0 | -0.3 | 1   | 82 | 0.7  | 1.68  | 5.6  | 143 | CHAMBERLAIN, DAVID R                        | NY   |
| 2.240 VALSIGNA SPARKY 18278               | 117729023        | 6K | F   | 18278  | 0   | 67  | 513   | 0.07  | 35  | 0.06  | 29   | 369  | 311  | 266  | 2.99 | 1.8 | -0.1 | 0   | 78 | 1.7  | 4.15  | 9.2  | 143 | WICKSTROM DAIRIES, LP                       | CA   |
| 2.241 CLOVER PATCH BOLD CHINOS            | 117674435        | 8K | F   | 2055   | 1   | 69  | 395   | 0.17  | 47  | 0.08  | 29   | 444  | 371  | 312  | 2.99 | 2.7 | -0.3 | 0   | 80 | 1.2  | 3.32  | 7.0  | 143 | KOZAK, ALAN                                 | OH   |
| 2.242 VALSIGNA SPARKY 17302               | 117552793        | 3K |     | 17302  | 1   | 70  | 1,126 | -0.07 | 40  | -0.07 | 28   | 342  | 359  | 379  | 2.97 | 3.1 | -0.1 | 1   | 77 | 1.0  | 3.08  | 9.3  | 143 | WICKSTROM DAIRIES, LP                       | CA   |
| 2.243 WILSONVIEW LEGAL SANDRA             | 117266014        | 8K | F   | 1730   | 1   | 70  | 785   | 0.06  | 47  | 0.00  | 28   | 351  | 336  | 332  | 3.08 | 2.5 | 0.6  | 1   | 79 | 1.0  | 3.99  | 6.6  | 143 | WILSONVIEW DAIRY                            | OR   |
| 2.244 CAL-MART SENECA BARBRA 3675-ET      | 117336665        | 3K |     | 3675   | 1   | 68  | 455   | 0.14  | 49  | 0.06  | 28   | 449  | 387  | 339  | 3.00 | 3.4 | 0.3  | 1   | 77 | 0.5  | 1.48  | 6.2  | 143 | MARTIN DAIRY LLC                            | OR   |
| 2.245 GR HILMAR MANTLE 26281              | 067326281        | 6K | C   | 26281  | 2   | 74  | 960   | -0.04 | 37  | -0.04 | 27   | 357  | 363  | 375  | 3.01 | 3.9 | -0.3 | 2   | 77 | 1.7  | 3.89  | 7.3  | 143 | AHLEM, CHARLES                              | CA   |
| 2.246 FARIA BROTHERS LOTTO 101725         | 840003008535093  | 6K | F   | 101725 | 2   | 70  | 716   | 0.20  | 71  | 0.00  | 27   | 471  | 435  | 400  | 2.79 | 3.0 | 0.5  | 1   | 78 | 0.6  | 0.20  | 7.3  | 143 | FARIA DAIRY                                 | AZ   |
| 2.247 AHLEM TBONE POLYANNA 34445          | 069041651        | 8K | F   | 34445  | 2   | 74  | 594   | 0.02  | 31  | 0.03  | 27   | 362  | 321  | 288  | 2.95 | 2.3 | 0.9  | 2   | 86 | 1.9  | 4.16  | 9.3  | 143 | AHLEM, WILLIAM JR                           | CA   |
| 2.248 HAWARDEN PREMIER BEAUTY             | 067125603        | 3K |     | 603    | 1   | 65  | 351   | 0.13  | 41  | 0.08  | 27   | 453  | 387  | 336  | 3.04 | 4.1 | 0.3  | 0   | 84 | 1.1  | 2.98  | 7.4  | 143 | HAWARDEN JERSEYS INC                        | ID   |
| 2.249 HILMAR CASEY 24682                  | 067624682        | 6K | C   | 24682  | 3   | 75  | 694   | 0.06  | 43  | 0.00  | 26   | 454  | 426  | 401  | 2.88 | 4.5 | -0.4 | 2   | 86 | 1.0  | 2.59  | 8.1  | 143 | AHLEM, CHARLES                              | CA   |
| 2.250 CAL-MART LEGAL KIM 3838             | 117467769        | 3K |     | 3838   | 1   | 67  | 548   | 0.09  | 42  | 0.04  | 26   | 428  | 383  | 348  | 2.94 | 3.4 | 1.0  | 1   | 80 | 1.0  | 3.51  | 5.7  | 143 | MARTIN DAIRY LLC                            | OR   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                      | Reg #           | GT  | JH1 | CCN   | GPTA |     |       |       |     |       |      |      |      |      | TYPE |      |      |     |    |      |       | Owner | ST  |  |      |
|---|-----------------|-----|-----|-------|------|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|--|------|
|   |                 |     |     |       | Rec  | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                                    | GJPI |
| 2.251 AHLEM BLACKSTONE PEGGY 35973        | 069043179       | 8K  | C   | 35973 | 1    | 72  | 531   | 0.07  | 36  | 0.04  | 26   | 321  | 282  | 256  | 3.06 | 1.5  | 0.2  | 2   | 82 | 2.2  | 6.58  | 7.7   | 143 | AHLEM, WILLIAM JR                      | CA   |
| 2.252 VALSIGNA SPARKY 17542               | 117612141       | 3K  |     | 17542 | 1    | 71  | 500   | 0.16  | 52  | 0.04  | 26   | 399  | 346  | 300  | 2.88 | 2.1  | -0.2 | 1   | 80 | 1.3  | 3.97  | 10.2  | 143 | WICKSTROM DAIRIES, LP                  | CA   |
| 2.253 GR VALSIGNA KILOWATT 17459          | 117611355       | 3K  |     | 17459 | 1    | 70  | 328   | 0.16  | 44  | 0.08  | 26   | 416  | 354  | 308  | 3.07 | 3.1  | 1.6  | 0   | 68 | 0.3  | 2.36  | 8.5   | 143 | WICKSTROM DAIRIES, LP                  | CA   |
| 2.254 GABYS HEADLINE ANASTASIA-ET         | 117168839       | 50K | F   | 1     | 1    | 72  | 1,095 | -0.12 | 26  | -0.07 | 25   | 347  | 379  | 416  | 3.08 | 5.6  | 0.1  | 1   | 85 | 1.9  | 4.15  | 7.6   | 143 | ROWLEY STEVE, HAY RICHARD & GLYNN MIKE | MS   |
| 2.255 FAIRWAY LOTTO DALLO                 | 067671115       | 6K  | F   | 1115  | 1    | 70  | 809   | 0.22  | 79  | -0.02 | 25   | 470  | 459  | 450  | 2.88 | 3.5  | 0.1  | 0   | 80 | 1.0  | 0.89  | 7.3   | 143 | FAIRWAY JERSEYS                        | VA   |
| 2.256 LYON LOUIE BRAY                     | 117322084       | 6K  | F   | 4633  | 1    | 72  | 816   | 0.05  | 47  | -0.03 | 24   | 423  | 421  | 425  | 2.98 | 4.2  | 1.8  | 1   | 86 | 0.3  | 1.74  | 6.8   | 143 | LYON JERSEYS                           | IA   |
| 2.257 AHLEM TBONE MISTY 34251             | 069041457       | 8K  | F   | 34251 | 2    | 75  | 390   | 0.16  | 47  | 0.06  | 24   | 414  | 352  | 294  | 2.83 | 2.3  | -0.3 | 2   | 79 | 1.3  | 3.79  | 9.9   | 143 | AHLEM, WILLIAM JR                      | CA   |
| 2.258 CINNAMON RIDGE T-BONE DAYDREAM      | 117584796       | 8K  | F   | 869   | 1    | 72  | 251   | 0.17  | 43  | 0.08  | 24   | 424  | 349  | 280  | 2.84 | 1.7  | -0.2 | 0   | 77 | 2.3  | 5.03  | 9.7   | 143 | MAXWELL, AMY                           | IA   |
| 2.259 YOSEMITE KARBALA RASMUS N22422      | 840003006458344 | 3K  |     | 60    | 1    | 71  | 726   | -0.02 | 31  | -0.01 | 23   | 370  | 358  | 351  | 2.95 | 3.7  | 0.1  | 1   | 86 | 1.6  | 5.32  | 7.6   | 143 | BOER, ANNEKE                           | TX   |
| 2.260 LITTLE BROOK IATOLA 8004            | 116013060       | 8K  | F   | 631   | 3    | 76  | 715   | 0.06  | 42  | -0.02 | 22   | 399  | 391  | 386  | 2.95 | 3.1  | 0.9  | 2   | 90 | 1.5  | 3.93  | 9.1   | 143 | LITTLE BROOK DAIRY                     | MN   |
| 2.261 VALSIGNA SPARKY 17600               | 117612682       | 3K  |     | 17600 | 0    | 65  | 568   | -0.06 | 15  | 0.01  | 22   | 350  | 323  | 302  | 2.95 | 3.2  | 1.7  | 1   | 76 | 0.8  | 4.85  | 8.4   | 143 | WICKSTROM DAIRIES, LP                  | CA   |
| 2.262 CLOVER PATCH HEADLINE SOPHIE        | 067116920       | 8K  | F   | 20    | 1    | 71  | 1,138 | -0.15 | 22  | -0.10 | 21   | 363  | 411  | 458  | 2.99 | 5.8  | 0.6  | 1   | 85 | 1.9  | 4.26  | 7.6   | 143 | MILLER LEROY & MARTHA SUE              | OH   |
| 2.263 ORTHRIDGE I LEGAL DESERT ROSE-P-ET  | 067116749       | 3K  |     | 749   | 1    | 68  | 465   | 0.07  | 33  | 0.03  | 21   | 447  | 409  | 376  | 2.89 | 4.6  | 0.9  | 1   | 82 | 1.3  | 3.29  | 7.3   | 143 | ORTHRIDGE FARMS                        | WI   |
| 2.264 FARIA BROTHERS MAXIMUM JENN         | 840003004633909 | 3K  |     | 88270 | 1    | 62  | 361   | 0.20  | 54  | 0.04  | 21   | 490  | 442  | 402  | 2.94 | 4.5  | 0.5  | 1   | 80 | 1.1  | 2.62  | 3.3   | 143 | FARIA BROS DAIRIES                     | TX   |
| 2.265 CAL-MART ZUMA PACA 5250             | 067245250       | 6K  | F   | 5250  | 1    | 63  | 552   | 0.04  | 34  | -0.01 | 19   | 483  | 460  | 435  | 2.80 | 5.8  | 0.9  | 0   | 81 | 0.1  | 1.59  | 3.8   | 143 | MARTIN DAIRY LLC                       | OR   |
| 2.266 SSF ADVANTAGE CHERRY                | 114003414       | 8K  | F   | 77    | 4    | 76  | 541   | 0.01  | 27  | 0.00  | 19   | 434  | 419  | 408  | 2.97 | 5.3  | 1.6  | 2   | 90 | 1.3  | 3.59  | 6.9   | 143 | GARDNER MARK & SHANNON                 | PA   |
| 2.267 AHLEM LEGAL DOLLY 37141             | 070048615       | 8K  | F   | 37141 | 1    | 70  | 464   | 0.02  | 24  | 0.00  | 18   | 394  | 373  | 354  | 2.91 | 4.3  | 0.9  | 1   | 79 | 1.7  | 6.10  | 7.0   | 143 | AHLEM, WILLIAM JR                      | CA   |
| 2.268 TOLLENAAR LEGACY 5281               | 064493203       | 3K  |     | 5281  | 1    | 71  | 207   | 0.17  | 41  | 0.06  | 18   | 500  | 440  | 384  | 2.82 | 4.6  | 1.2  | 2   | 78 | 0.8  | 2.13  | 7.7   | 143 | TOLLENAAR JERSEYS                      | CA   |
| 2.269 HILMAR ZUMA 34106                   | 067434106       | 6K  | F   | 34106 | 0    | 62  | -310  | 0.33  | 47  | 0.15  | 18   | 509  | 395  | 295  | 2.92 | 3.9  | 0.9  | 0   | 73 | 0.7  | 3.65  | 4.3   | 143 | AHLEM, CHARLES                         | CA   |
| 2.270 GR FARIA BROTHERS APPARITION 56866  | 840003006061504 | 6K  | F   | 56866 | 2    | 67  | 115   | 0.25  | 50  | 0.07  | 17   | 562  | 494  | 428  | 2.78 | 5.6  | 1.0  | 0   | 78 | 0.8  | 2.24  | 2.1   | 143 | FARIA BROS DAIRIES                     | TX   |
| 2.271 STEPHAN TBONE CLEO                  | 117042625       | 3K  |     | 409   | 2    | 70  | 36    | 0.17  | 34  | 0.09  | 17   | 460  | 392  | 334  | 2.98 | 3.7  | 1.6  | 2   | 88 | 1.9  | 5.40  | 8.5   | 143 | STRICKHOUSER, SHARI                    | WI   |
| 2.272 AHLEM CELEBRITY RUTH 34728          | 069041934       | 8K  | C   | 34728 | 2    | 73  | 354   | 0.11  | 37  | 0.01  | 16   | 390  | 362  | 336  | 2.90 | 3.1  | 0.7  | 3   | 90 | 2.5  | 6.63  | 9.3   | 143 | GRAYBILL PAUL AND KILGUS TRENT         | IL   |
| 2.273 GR BOYD-LEE GRIEVES LAURA           | 116471404       | 8K  | F   | 293   | 2    | 72  | 1,534 | -0.11 | 50  | -0.03 | 47   | 301  | 299  | 313  | 3.15 | 1.8  | -1.4 | 2   | 83 | 0.8  | 0.56  | 6.0   | 142 | ELLENBURG, DYLAN                       | TN   |
| 2.274 BW LOUIE SUZANNE ET707-ET           | 116906704       | 50K | C   | 1946  | 2    | 76  | 1,530 | -0.14 | 44  | -0.05 | 45   | 274  | 283  | 310  | 3.21 | 1.5  | 0.1  | 2   | 78 | 1.0  | 1.16  | 7.3   | 142 | BRENTWOOD FARMS                        | CA   |
| 2.275 PR FARIA BROTHERS MATINEE 19406     | 840003001577351 | 6K  | F   | 19406 | 4    | 70  | 1,471 | 0.05  | 77  | -0.05 | 43   | 352  | 354  | 367  | 3.04 | -0.5 | 0.4  | 0   | 76 | 0.2  | -1.84 | 4.2   | 142 | FARIA BROS DAIRIES                     | TX   |
| 2.276 HI-LAND LEGAL PEANUTS               | 067146541       | 8K  | F   | 6541  | 1    | 72  | 1,447 | -0.19 | 29  | -0.05 | 41   | 322  | 324  | 331  | 2.94 | 2.7  | 0.2  | 1   | 84 | 0.9  | 0.47  | 7.8   | 142 | CHAMBERLAIN, DAVID R                   | NY   |
| 2.277 GR FARIA BROTHERS PROTECTOR 57348   | 840003006315898 | 6K  |     | 57348 | 2    | 68  | 1,297 | -0.09 | 42  | -0.02 | 41   | 281  | 274  | 281  | 3.11 | 0.9  | -0.5 | 0   | 70 | 0.9  | 2.82  | 3.7   | 142 | FARIA BROS DAIRIES                     | TX   |
| 2.278 WILL DO ABE SHINER                  | 114799153       | 3K  |     | 941   | 5    | 74  | 818   | 0.11  | 57  | 0.06  | 41   | 427  | 353  | 293  | 2.91 | 1.4  | -0.6 | 2   | 86 | 0.4  | -0.74 | 6.4   | 142 | ETTINGER EDWIN R & CHERYL F            | SC   |
| 2.279 GR AHLEM GANNON JOJO 32706          | 066622139       | 8K  | F   | 32706 | 2    | 73  | 1,449 | -0.09 | 48  | -0.06 | 40   | 255  | 269  | 294  | 3.08 | 0.4  | -0.1 | 2   | 87 | 1.5  | 3.10  | 6.1   | 142 | AHLEM, WILLIAM JR                      | CA   |
| 2.280 ALL LYNNS VERNON GRETA              | 117010994       | 3K  |     | 9     | 2    | 69  | 1,171 | -0.08 | 38  | -0.01 | 40   | 358  | 338  | 332  | 3.06 | 2.8  | -0.7 | 1   | 85 | 1.4  | 1.37  | 7.0   | 142 | CRUBEL, ASHLEE L                       | WI   |
| 2.281 GR HETTINGAS KYROS ALLYSON          | 067160516       | 6K  | F   | 516   | 0    | 67  | 1,167 | -0.03 | 48  | -0.01 | 40   | 287  | 274  | 280  | 3.20 | 1.0  | -0.6 | 1   | 84 | 1.4  | 2.37  | 8.8   | 142 | HETTINGA, JASON                        | IA   |
| 2.282 WILSONVIEW SHUR SUMMER              | 067151253       | 3K  |     | 1253  | 5    | 75  | 807   | 0.04  | 46  | 0.05  | 39   | 420  | 355  | 303  | 2.94 | 2.0  | -1.5 | 2   | 86 | 1.2  | 1.43  | 9.8   | 142 | WILSONVIEW DAIRY                       | OR   |
| 2.283 CLOVER PATCH BOLD LEXUS             | 117674453       | 8K  | F   | 2057  | 1    | 70  | 805   | 0.16  | 67  | 0.06  | 39   | 406  | 345  | 302  | 3.07 | 1.4  | -0.6 | 0   | 76 | 0.7  | 0.71  | 7.9   | 142 | KOZAK, ALAN                            | OH   |
| 2.284 HEI-BRI IMPULS JURY                 | 067127730       | 6K  | F   | 730   | 1    | 65  | 634   | 0.16  | 59  | 0.09  | 39   | 507  | 416  | 338  | 2.86 | 3.0  | 0.2  | 1   | 74 | -0.4 | -2.27 | 4.6   | 142 | LANTZKY BRIAN & HEIDI & FAMILY         | IA   |
| 2.285 AHLEM IMPULS TOPY 31613             | 066068997       | 3K  |     | 31613 | 3    | 70  | 889   | -0.04 | 34  | 0.03  | 38   | 354  | 304  | 267  | 2.99 | 1.5  | 0.3  | 2   | 83 | 1.1  | 2.24  | 4.9   | 142 | AHLEM, WILLIAM JR                      | CA   |
| 2.286 JCJ TBONE 17725                     | 116231677       | 3K  |     | 17725 | 4    | 75  | 1,480 | -0.13 | 41  | -0.09 | 37   | 299  | 329  | 366  | 3.06 | 2.3  | -0.5 | 2   | 84 | 1.4  | 1.36  | 9.7   | 142 | AHLEM, JAMES                           | CA   |
| 2.287 AHLEM REGION COED 36408             | 070047882       | 8K  | F   | 36408 | 1    | 71  | 1,016 | 0.12  | 68  | 0.00  | 37   | 386  | 356  | 338  | 3.02 | 2.1  | -1.2 | 1   | 81 | 0.9  | 1.75  | 6.5   | 142 | AHLEM, WILLIAM JR                      | CA   |
| 2.288 MILLS BRAZO DILL                    | 116807818       | 3K  |     | 6744  | 2    | 71  | 1,374 | -0.06 | 48  | -0.06 | 36   | 361  | 384  | 418  | 3.11 | 3.6  | 0.0  | 2   | 79 | 0.5  | -0.24 | 7.2   | 142 | MILLS JERSEY FARM LLC                  | NV   |
| 2.289 GR TJF CARL TAMMY 1017              | 067831017       | 8K  | F   | 1017  | 0    | 62  | 1,320 | -0.07 | 46  | -0.07 | 36   | 278  | 293  | 318  | 3.07 | 1.2  | 0.2  | 1   | 84 | 1.7  | 3.23  | 4.2   | 142 | TAYLOR JERSEY FARM INC                 | MS   |
| 2.290 MAPLE VIEW LEGAL NINA               | 117399688       | 6K  | C   | 530   | 1    | 70  | 1,045 | -0.11 | 27  | -0.01 | 36   | 337  | 312  | 297  | 2.98 | 2.2  | 0.2  | 1   | 82 | 1.3  | 2.96  | 6.9   | 142 | WHITE, BENJAMIN R                      | VT   |
| 2.291 NORMANDELL LOUIE TERESA             | 067671016       | 8K  | C   | 1016  | 1    | 71  | 1,114 | 0.10  | 68  | -0.02 | 35   | 375  | 364  | 363  | 3.01 | 2.2  | -0.6 | 1   | 82 | 0.7  | 1.16  | 6.7   | 142 | NORMANDELL FARMS                       | PA   |
| 2.292 MOO BAMBI HUGO 1125                 | 067501125       | 8K  | F   | 858   | 1    | 70  | 1,055 | -0.07 | 35  | -0.02 | 35   | 392  | 370  | 354  | 2.90 | 3.9  | -0.1 | 0   | 73 | 0.2  | 1.02  | 5.5   | 142 | MAXWELL, JOHN DAVID                    | IA   |
| 2.293 SUNWEST ABE ANCHOR H6933            | 067046933       | 6K  | F   | 6933  | 5    | 76  | 1,024 | 0.07  | 60  | 0.00  | 35   | 420  | 392  | 370  | 2.88 | 2.8  | -0.6 | 2   | 86 | 0.3  | -0.30 | 5.9   | 142 | SUNWEST JERSEY DAIRY                   | CA   |
| 2.294 IRISHTOWNS W2508 UPPERCUT DARING-ET | 067242508       | 3K  |     | 2508  | 1    | 68  | 1,014 | -0.07 | 34  | -0.01 | 35   | 347  | 329  | 324  | 3.08 | 2.3  | 1.3  | 1   | 81 | 1.2  | 1.56  | 6.2   | 142 | PAXTON, SILAS                          | PA   |
| 2.295 FOREST GLEN LEGALS JADEY            | 067354476       | 3K  |     | 4476  | 1    | 68  | 845   | 0.05  | 50  | 0.02  | 34   | 392  | 356  | 333  | 3.02 | 2.8  | -0.6 | 0   | 77 | 1.7  | 2.60  | 7.5   | 142 | BANSEN, DAN K                          | OR   |
| 2.296 VALSIGNA SPARKY 17890               | 117725672       | 3K  |     | 17890 | 0    | 64  | 685   | 0.04  | 40  | 0.05  | 34   | 349  | 296  | 259  | 3.07 | 1.1  | -0.1 | 0   | 82 | 1.1  | 3.11  | 9.5   | 142 | WICKSTROM DAIRIES, LP                  | CA   |
| 2.297 MULTI-ROSE CHAMP 3540               | 840003007449255 | 8K  | F   | 3540  | 0    | 68  | 1,072 | -0.05 | 40  | -0.03 | 33   | 299  | 296  | 303  | 3.06 | 1.5  | -0.4 | 1   | 86 | 1.2  |       |       |     |  |      |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT | JH1 | GPTA  |     |     |       |       |     |       |      |      | TYPE |      |      |      |      |     |    |      |       |      | Owner | ST                             |      |
|--|-----------------|----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|------|-------|--------------------------------|------|
|  |                 |    |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   | GFI  |       |                                | GJPI |
| 2.301 DUPAT VIRGIL 8756                  | 067148756       | 3K |     | 8756  | 1   | 69  | 1,119 | 0.04  | 59  | -0.04 | 32   | 358  | 371  | 398  | 3.18 | 2.8  | 0.1  | 1   | 81 | 0.4  | 0.68  | 6.8  | 142   | WICKSTROM, BRENTON             | CA   |
| 2.302 AHLEM REGION LOTUS 34309-ET        | 069041515       | 8K | F   | 34309 | 2   | 74  | 966   | 0.08  | 59  | -0.02 | 32   | 365  | 353  | 352  | 3.06 | 2.0  | 0.1  | 1   | 78 | 1.3  | 2.36  | 8.3  | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.303 AHLEM PRIMO MAYDAY 36781           | 070048255       | 8K | F   | 36781 | 1   | 73  | 872   | -0.02 | 35  | -0.01 | 31   | 304  | 281  | 265  | 2.96 | 1.1  | -1.0 | 1   | 78 | 1.6  | 4.96  | 10.7 | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.304 AHLEM TBONE FRANCINE 34167         | 069041373       | 8K | F   | 1383  | 2   | 73  | 469   | 0.10  | 40  | 0.08  | 31   | 349  | 278  | 222  | 2.99 | 0.9  | -1.0 | 1   | 85 | 2.5  | 5.82  | 9.9  | 142   | EVANGELO, ANTHONY              | CA   |
| 2.305 VALSIGNA SPARKY 17411              | 117610916       | 3K |     | 17411 | 1   | 70  | 1,171 | -0.14 | 28  | -0.06 | 30   | 292  | 302  | 311  | 2.87 | 2.1  | -0.4 | 1   | 80 | 1.1  | 4.32  | 9.4  | 142   | WICKSTROM DAIRIES, LP          | CA   |
| 2.306 CAL-MART LOUIE CLEA 5192           | 067385192       | 6K | F   | 5192  | 1   | 69  | 1,147 | 0.00  | 52  | -0.05 | 30   | 358  | 367  | 377  | 2.90 | 2.8  | 0.4  | 0   | 79 | 0.8  | 2.32  | 6.5  | 142   | MARTIN DAIRY LLC               | OR   |
| 2.307 SHAN-MAR LEGAL POLITE              | 067128482       | 3K |     | 482   | 1   | 68  | 903   | -0.07 | 28  | -0.01 | 30   | 324  | 314  | 317  | 3.12 | 3.1  | 0.7  | 1   | 83 | 1.3  | 4.17  | 6.4  | 142   | GARDNER MARK & SHANNON         | PA   |
| 2.308 JARS OF CLAY STONE RITA            | 067333180       | 3K |     | 33180 | 1   | 68  | 792   | 0.09  | 55  | 0.02  | 30   | 373  | 342  | 320  | 2.98 | 2.5  | -0.5 | 1   | 83 | 1.2  | 3.08  | 6.0  | 142   | QUIST, JIM                     | CA   |
| 2.309 D&E CELEBRITY LUPE 22052           | 067422052       | 3K |     | 22052 | 1   | 70  | 710   | 0.13  | 57  | 0.02  | 30   | 417  | 368  | 323  | 2.81 | 2.4  | -1.2 | 1   | 82 | 1.4  | 2.68  | 8.5  | 142   | D & E JERSEYS                  | TX   |
| 2.310 CAL-MART ALEXANDER GLINYS 3404     | 117106107       | 8K | F   | 3404  | 2   | 73  | 692   | 0.10  | 50  | 0.03  | 30   | 415  | 376  | 349  | 3.04 | 2.6  | 0.9  | 0   | 80 | 0.5  | 1.70  | 6.5  | 142   | MARTIN DAIRY LLC               | OR   |
| 2.311 FOREST GLEN KARLS BILLIE           | 067323619       | 8K | F   | 3619  | 1   | 70  | 554   | 0.26  | 74  | 0.06  | 30   | 468  | 411  | 367  | 2.98 | 2.2  | -0.5 | 1   | 84 | 0.7  | 1.20  | 6.1  | 142   | BANSEN STANLEY K & DORA H      | OR   |
| 2.312 BW RENEGADE ZOE W416               | 117624720       | 3K |     | 1151  | 1   | 69  | 509   | 0.20  | 61  | 0.06  | 30   | 466  | 400  | 347  | 2.96 | 2.8  | 0.9  | 1   | 77 | 1.0  | 1.06  | 6.5  | 142   | BRENTWOOD FARMS                | CA   |
| 2.313 HAWARDEN IMPULS SUGAR              | 067107497       | 3K |     | 497   | 3   | 71  | 458   | 0.16  | 50  | 0.07  | 30   | 441  | 375  | 325  | 3.03 | 3.1  | 0.3  | 2   | 88 | 1.2  | 1.89  | 6.5  | 142   | HAWARDEN JERSEYS INC           | ID   |
| 2.314 HEARTLAND DAMIAN NIKALA            | 067101560       | 3K |     | 1560  | 4   | 73  | 446   | 0.05  | 30  | 0.07  | 30   | 486  | 405  | 329  | 2.76 | 4.0  | 1.0  | 2   | 86 | 0.0  | 0.09  | 7.7  | 142   | HEARTLAND JERSEYS              | KS   |
| 2.315 CAL-MART RENEGADE PETUNIA 3934     | 117514153       | 6K | F   | 3934  | 1   | 72  | 359   | 0.21  | 56  | 0.10  | 30   | 466  | 380  | 307  | 2.91 | 3.0  | -0.2 | 1   | 76 | 0.8  | 1.89  | 7.7  | 142   | MARTIN DAIRY LLC               | OR   |
| 2.316 D&E LUPITA 625                     | 067060625       | 3K |     | 625   | 4   | 75  | 1,057 | -0.02 | 45  | -0.05 | 29   | 408  | 406  | 401  | 2.78 | 2.9  | 1.2  | 2   | 85 | 0.2  | -0.07 | 8.8  | 142   | D & E JERSEYS                  | TX   |
| 2.317 WILSONVIEW LOTTO MARCIA            | 117256008       | 8K | F   | 1681  | 1   | 71  | 844   | 0.10  | 58  | -0.01 | 29   | 405  | 376  | 350  | 2.82 | 2.2  | -0.3 | 1   | 81 | 1.4  | 2.30  | 8.0  | 142   | WILSONVIEW DAIRY               | OR   |
| 2.318 AHLEM LEGAL PANSY 35618-ET         | 069042824       | 8K | C   | 35618 | 1   | 72  | 816   | -0.06 | 26  | -0.01 | 29   | 353  | 337  | 330  | 3.05 | 3.7  | 0.4  | 1   | 86 | 1.7  | 4.31  | 7.5  | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.319 AHLEM TBONE NOELLE 34222           | 069041428       | 8K | C   | 34222 | 2   | 75  | 688   | 0.07  | 45  | 0.02  | 29   | 315  | 282  | 263  | 3.08 | 0.9  | -0.6 | 2   | 87 | 1.9  | 5.48  | 10.5 | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.320 AHLEM LEGAL JESSIE 35433           | 069042639       | 8K | C   | 35433 | 1   | 71  | 660   | -0.03 | 25  | 0.02  | 29   | 323  | 286  | 259  | 3.02 | 2.2  | 0.6  | 1   | 79 | 2.1  | 5.59  | 7.4  | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.321 AHLEM ON TIME LARA 35479           | 069042685       | 8K | F   | 35479 | 2   | 73  | 538   | 0.06  | 34  | 0.05  | 29   | 370  | 316  | 274  | 2.98 | 2.0  | 0.1  | 1   | 85 | 2.4  | 5.12  | 9.1  | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.322 WILSONVIEW CHAMP MONOPOLY          | 117266032       | 8K | C   | 1732  | 0   | 68  | 969   | -0.01 | 41  | -0.04 | 28   | 339  | 338  | 340  | 2.93 | 2.2  | 0.0  | 1   | 84 | 1.4  | 3.25  | 10.0 | 142   | WILSONVIEW DAIRY               | OR   |
| 2.323 D&E HEADLINE CHARM 4535            | 840003008324598 | 3K |     | 4535  | 1   | 70  | 968   | 0.03  | 51  | -0.03 | 28   | 404  | 395  | 388  | 2.85 | 3.8  | -0.5 | 1   | 81 | 1.1  | 1.51  | 7.5  | 142   | D & E JERSEYS                  | TX   |
| 2.324 CAL-MART LOUIE SAMI 5126           | 067385126       | 3K |     | 5126  | 1   | 67  | 965   | 0.15  | 73  | -0.03 | 28   | 447  | 448  | 454  | 2.98 | 3.6  | 0.9  | 0   | 83 | 0.1  | -0.78 | 5.4  | 142   | MARTIN DAIRY LLC               | OR   |
| 2.325 VALSIGNA SPARKY 17682              | 117613496       | 3K |     | 17682 | 1   | 70  | 771   | 0.00  | 35  | 0.00  | 28   | 372  | 348  | 333  | 3.00 | 2.8  | 0.4  | 0   | 77 | 1.0  | 2.88  | 10.3 | 142   | WICKSTROM DAIRIES, LP          | CA   |
| 2.326 HIGHLAND IMPULS G WENDY            | 067222786       | 8K | F   | 2786  | 1   | 65  | 725   | 0.07  | 47  | 0.02  | 28   | 426  | 389  | 356  | 2.84 | 3.5  | 0.4  | 0   | 79 | 1.0  | 2.28  | 4.2  | 142   | HIGHLAND FARMS                 | ME   |
| 2.327 GR VIDA BOA TBONE 14022            | 067314022       | 6K | F   | 14022 | 1   | 73  | 579   | 0.11  | 46  | 0.04  | 28   | 388  | 340  | 301  | 2.95 | 2.2  | -0.4 | 0   | 78 | 1.6  | 4.17  | 9.5  | 142   | VIDA BOA FARMS                 | CA   |
| 2.328 GR VALSIGNA SPARKY 18362           | 117776360       | 6K | F   | 18362 | 0   | 67  | 460   | 0.11  | 42  | 0.06  | 28   | 404  | 337  | 280  | 2.89 | 2.2  | 0.2  | 0   | 74 | 1.1  | 3.39  | 9.7  | 142   | WICKSTROM DAIRIES, LP          | CA   |
| 2.329 D&E CJACK VIOLET 50029-ET          | 067150029       | 3K |     | 50029 | 0   | 66  | 1,052 | -0.07 | 35  | -0.05 | 27   | 375  | 382  | 389  | 2.88 | 3.6  | 0.2  | 0   | 80 | 1.4  | 3.21  | 7.3  | 142   | D & E JERSEYS                  | TX   |
| 2.330 BK/DK JEVON LIBERTY BELLE-ET       | 067078635       | 3K |     | 635   | 3   | 74  | 976   | -0.04 | 36  | -0.04 | 27   | 372  | 373  | 373  | 2.86 | 3.5  | -0.3 | 2   | 90 | 1.6  | 3.73  | 9.2  | 142   | BK/DK SYNDICATE                | NY   |
| 2.331 CLOVER PATCH BOLD CARMEL           | 117674659       | 8K | F   | 2077  | 1   | 69  | 713   | 0.04  | 39  | 0.00  | 27   | 406  | 373  | 341  | 2.82 | 2.6  | 0.6  | 0   | 82 | 1.5  | 3.38  | 7.2  | 142   | KOZAK, ALAN                    | OH   |
| 2.332 HEI-BRI MILES IZZIT                | 067084448       | 3K |     | 448   | 2   | 71  | 649   | 0.03  | 35  | 0.01  | 27   | 378  | 336  | 296  | 2.80 | 2.2  | -0.7 | 2   | 88 | 1.9  | 5.45  | 6.9  | 142   | LANTZKY BRIAN & HEIDI & FAMILY | IA   |
| 2.333 SUNBOW LOUIE VELVET                | 117207170       | 3K |     | 265   | 2   | 69  | 1,151 | -0.04 | 44  | -0.08 | 26   | 410  | 428  | 441  | 2.79 | 4.0  | 0.8  | 2   | 83 | 0.5  | 1.40  | 4.9  | 142   | STEER, VERONICA                | TN   |
| 2.334 PR VALSIGNA KANOO 16669            | 117419449       | 3K |     | 16669 | 1   | 63  | 792   | -0.01 | 34  | -0.01 | 26   | 336  | 333  | 345  | 3.19 | 3.5  | 1.5  | 1   | 81 | 0.9  | 3.63  | 3.0  | 142   | WICKSTROM DAIRIES, LP          | CA   |
| 2.335 CDF ABE ARTIST J24587              | 840003004261421 | 3K |     | 24587 | 3   | 71  | 657   | 0.09  | 46  | 0.01  | 26   | 419  | 384  | 354  | 2.89 | 3.2  | 0.4  | 2   | 84 | 0.4  | 2.03  | 6.0  | 142   | C & S LIVESTOCK                | CA   |
| 2.336 JER-Z-BOYZ MAXIMUM 37189           | 117787603       | 8K | F   | 37189 | 1   | 67  | 411   | 0.22  | 59  | 0.07  | 26   | 462  | 406  | 364  | 3.02 | 3.8  | 0.7  | 0   | 78 | 0.3  | 1.09  | 6.7  | 142   | JER-Z-BOYZ                     | CA   |
| 2.337 BERRYS BLITZEN BRISTOL             | 117266519       | 3K |     | 753   | 1   | 66  | 367   | 0.22  | 58  | 0.07  | 26   | 486  | 412  | 343  | 2.80 | 2.6  | 0.3  | 1   | 85 | 1.0  | 1.96  | 6.3  | 142   | BARHAM JERSEY FARM             | TN   |
| 2.338 HIGH LAWN LENNOX QUAIN             | 116424523       | 3K |     | 9319  | 2   | 72  | 594   | -0.02 | 25  | 0.01  | 24   | 418  | 382  | 348  | 2.84 | 3.6  | 0.7  | 1   | 76 | 1.5  | 3.67  | 8.8  | 142   | HIGH LAWN FARM                 | MA   |
| 2.339 JER-Z-BOYZ TBONE 33113             | 053904081       | 3K |     | 33113 | 2   | 71  | 315   | 0.26  | 63  | 0.07  | 24   | 448  | 382  | 324  | 2.91 | 2.0  | 0.7  | 1   | 82 | 1.5  | 2.47  | 7.5  | 142   | JER-Z-BOYZ                     | CA   |
| 2.340 CLOVER PATCH HEADLINE CIRCUS       | 117479889       | 8K | F   | 2032  | 1   | 72  | 1,133 | -0.14 | 23  | -0.09 | 23   | 387  | 422  | 454  | 2.89 | 5.5  | 0.9  | 1   | 83 | 1.3  | 2.61  | 8.2  | 142   | KOZAK, ALAN                    | OH   |
| 2.341 VALSIGNA SPARKY 17358              | 117553347       | 3K |     | 17358 | 1   | 70  | 674   | 0.01  | 34  | -0.01 | 23   | 373  | 361  | 356  | 3.00 | 4.2  | 0.3  | 1   | 77 | 1.3  | 4.01  | 9.6  | 142   | WICKSTROM DAIRIES, LP          | CA   |
| 2.342 JER-Z-BOYZ MAXIMUM 34053           | 053904083       | 3K |     | 34053 | 1   | 63  | 526   | 0.21  | 61  | 0.03  | 23   | 476  | 443  | 418  | 2.98 | 4.6  | 0.6  | 1   | 74 | 0.3  | 1.46  | 4.8  | 142   | JER-Z-BOYZ                     | CA   |
| 2.343 BW RENEGADE ESTELLE W421           | 117661921       | 6K | F   | 186   | 0   | 65  | 477   | 0.10  | 41  | 0.03  | 23   | 439  | 398  | 363  | 2.90 | 3.8  | 1.4  | 0   | 75 | 0.9  | 2.13  | 6.6  | 142   | BRENTWOOD FARMS                | CA   |
| 2.344 SUNSET CANYON MAXIMUM S DARLENE    | 117347364       | 8K | F   | 1958  | 1   | 70  | 561   | 0.21  | 65  | 0.01  | 22   | 460  | 432  | 411  | 2.94 | 3.5  | 0.2  | 0   | 86 | 1.5  | 1.99  | 7.0  | 142   | SILVA, ERIC LEONARD            | OR   |
| 2.345 CAL-MART RENEGADE TAMARA 5255      | 067245255       | 6K | F   | 5255  | 1   | 69  | 284   | 0.19  | 48  | 0.05  | 19   | 479  | 423  | 368  | 2.78 | 3.8  | 0.8  | 0   | 77 | 1.4  | 3.19  | 7.1  | 142   | MARTIN DAIRY LLC               | OR   |
| 2.346 BW RENEGADE DIANA U495             | 117120749       | 6K | F   | 367   | 2   | 74  | 240   | 0.16  | 42  | 0.05  | 18   | 467  | 410  | 353  | 2.77 | 4.3  | 0.7  | 2   | 84 | 1.6  | 4.04  | 7.9  | 142   | BRENTWOOD FARMS                | CA   |
| 2.347 WILSONVIEW BOOKER SASSY            | 117423468       | 3K |     | 1789  | 1   | 68  | 527   | -0.05 | 16  | -0.02 | 15   | 435  | 429  | 420  | 2.85 | 6.3  | 1.2  | 1   | 85 | 1.6  | 4.61  | 7.6  | 142   | WILSONVIEW DAIRY               | OR   |
| 2.348 AHLEM TBONE CHARM 33258            | 066622691       | 3K |     | 33258 | 3   | 73  | -123  | 0.27  | 43  | 0.11  | 15   | 487  | 400  | 318  | 2.80 | 3.8  | 0.3  | 2   | 85 | 2.3  | 5.64  | 10.1 | 142   | AHLEM, WILLIAM JR              | CA   |
| 2.349 PR FARIA BROTHERS STONE 57309      | 840003006315859 | 6K |     | 57309 | 2   | 69  | 1,230 | -0.01 | 54  | 0.03  | 48   | 317  | 271  | 241  | 3.03 | -0.5 | -0.2 | 1   | 80 | 0.1  | -0.37 | 6.0  | 141   | FARIA BROS DAIRIES             | TX   |
| 2.350 GR OOMSDALE CASEY VALTINO CHEYE-ET | 067138547       | 3K |     | 547   | 1   | 64  | 1,567 | -0.08 | 55  | -0.04 | 47   | 257  | 257  | 273  | 3.12 | 0.5  | -1.0 | 0   |    | 1.8  | 1.62  | 3.4  | 141   | ELLSWORTH, KRISTY              | NY   |

# November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                      | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |     |      |     |    |      | Owner | ST   |     |                                  |      |
|---|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|------|-----|----------------------------------|------|
|   |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                              | GJPI |
| 2.351 HIGHLAND IMPULS G DELORES           | 067222780       | 3K  |     | 2780  | 1   | 66  | 1,131 | 0.07  | 64  | 0.02  | 45   | 351  | 312  | 295  | 3.17 | 0.7 | 0.2  | 0   | 82 | 0.0  | -1.38 | 5.6  | 141 | HIGHLAND FARMS                   | ME   |
| 2.352 IRISHTOWNS W2493 VALENTINO JERRY-ET | 067232493       | 8K  | C   | 2493  | 1   | 73  | 1,048 | -0.07 | 34  | 0.03  | 41   | 296  | 251  | 219  | 2.98 | 0.5 | -1.0 | 1   | 82 | 1.4  | 3.51  | 8.1  | 141 | CLARK, RYAN D                    | PA   |
| 2.353 D&E ABE MOLLY 21247                 | 067521247       | 50K | F   | 21247 | 3   | 73  | 885   | 0.10  | 58  | 0.05  | 40   | 406  | 345  | 297  | 2.93 | 1.9 | -1.4 | 2   | 90 | 0.7  | 0.72  | 5.9  | 141 | D & E JERSEYS                    | TX   |
| 2.354 PR FARIA BROTHERS NATHAN 99654      | 840003001730380 | 6K  | F   | 99654 | 4   | 60  | 1,315 | -0.07 | 45  | -0.04 | 38   | 333  | 338  | 353  | 3.04 | 2.5 | 0.8  | 0   | 77 | 0.3  | 0.45  | 0.4  | 141 | FARIA BROS DAIRIES               | TX   |
| 2.355 FOREST GLEN HEADLINE HOLLYBERRY     | 067354714       | 6K  | F   | 4714  | 0   | 64  | 1,234 | -0.07 | 43  | -0.03 | 38   | 369  | 364  | 369  | 3.04 | 3.1 | 1.0  | 0   | 80 | 0.6  | -0.66 | 6.3  | 141 | FOREST GLEN JERSEYS              | OR   |
| 2.356 AVI-LANCHE VERTEX KELLI 5366        | 067375366       | 6K  | F   | 5366  | 1   | 68  | 1,227 | -0.08 | 41  | -0.03 | 38   | 341  | 330  | 327  | 2.97 | 2.2 | -0.4 | 1   | 76 | 0.0  | 0.95  | 6.1  | 141 | AVILA RICHARD & JENNIFER M       | TX   |
| 2.357 BW PARADE MONAE R583                | 115745728       | 3K  |     | 871   | 3   | 73  | 950   | -0.02 | 39  | 0.02  | 38   | 355  | 313  | 283  | 2.97 | 1.5 | 0.9  | 2   | 88 | 0.7  | 0.83  | 6.9  | 141 | BRENTWOOD FARMS                  | CA   |
| 2.358 RIVER VALLEY KYROS SALINA-ET        | 117653609       | 50K | F   | 173   | 1   | 71  | 954   | 0.00  | 44  | 0.02  | 37   | 352  | 307  | 272  | 2.90 | 0.7 | -0.6 | 1   | 83 | 1.6  | 2.23  | 7.1  | 141 | SAUDER NIC, JENI, BEN & ANDY     | IL   |
| 2.359 PR FARIA BROTHERS TBONE 18901       | 840003001576846 | 6K  | F   | 18901 | 3   | 72  | 947   | 0.00  | 44  | 0.02  | 37   | 347  | 308  | 283  | 3.02 | 1.1 | 0.3  | 0   | 83 | 1.3  | 1.55  | 7.6  | 141 | FARIA BROS DAIRIES               | TX   |
| 2.360 GR AHLEM GANNON BELLA 34176         | 069041382       | 3K  |     | 34176 | 2   | 70  | 864   | 0.02  | 43  | 0.04  | 37   | 350  | 305  | 277  | 3.07 | 2.0 | 0.7  | 2   | 79 | 0.3  | 1.07  | 6.6  | 141 | AHLEM, WILLIAM JR                | CA   |
| 2.361 HILMAR MERCHANT 28894               | 067328894       | 6K  | C   | 28894 | 1   | 71  | 812   | 0.16  | 66  | 0.05  | 37   | 430  | 364  | 305  | 2.81 | 0.8 | -2.0 | 1   | 82 | 1.1  | 0.94  | 7.0  | 141 | AHLEM, CHARLES                   | CA   |
| 2.362 CAL-MART MILITIA ICES3 3056         | 116890588       | 3K  |     | 3056  | 2   | 70  | 540   | 0.17  | 56  | 0.09  | 37   | 434  | 353  | 294  | 3.09 | 2.2 | 0.7  | 1   | 77 | 0.1  | -0.07 | 5.4  | 141 | MARTIN DAIRY LLC                 | OR   |
| 2.363 EVANGELO LOUIE JANET                | 067108641       | 8K  | F   | 641   | 1   | 70  | 1,380 | 0.00  | 64  | -0.07 | 36   | 406  | 416  | 427  | 2.87 | 3.1 | -0.3 | 1   | 77 | 0.5  | -0.95 | 6.9  | 141 | EVANGELO, ANTHONY                | CA   |
| 2.364 AVI-LANCHE VIBRANT REBECCA 22010    | 067422010       | 3K  |     | 22010 | 1   | 70  | 995   | 0.02  | 48  | 0.00  | 36   | 456  | 419  | 387  | 2.83 | 3.9 | -0.5 | 1   | 80 | -0.4 | -2.53 | 7.2  | 141 | AVILA RICHARD & JENNIFER M       | TX   |
| 2.365 DEN-KEL MATINEE JELLY TWO-ET        | 067049571       | GI  |     | 571   | 4   | 65  | 856   | 0.13  | 64  | 0.03  | 36   | 421  | 368  | 323  | 2.87 | 1.0 | 0.3  | 2   | 83 | 0.1  | -0.42 | 2.6  | 141 | KELLER, KIP A                    | NY   |
| 2.366 DEN-KEL JUMP-ET                     | 067100766       | 3K  |     | 766   | 1   | 71  | 710   | 0.14  | 58  | 0.07  | 36   | 452  | 371  | 295  | 2.69 | 1.2 | -1.0 | 1   | 82 | 1.0  | 1.11  | 7.7  | 141 | BK/DK SYNDICATE                  | NY   |
| 2.367 MILLS THOR SWISH                    | 115216460       | 3K  |     | 6283  | 5   | 72  | 1,607 | -0.17 | 38  | -0.12 | 35   | 363  | 416  | 471  | 3.04 | 4.2 | 0.7  | 2   | 81 | 0.1  | -1.62 | 6.5  | 141 | MILLS JERSEY FARM LLC            | NV   |
| 2.368 D&E JACK VIOLET 50025-ET            | 067150025       | 3K  |     | 60000 | 1   | 71  | 1,270 | -0.06 | 47  | -0.05 | 35   | 346  | 357  | 376  | 3.04 | 3.1 | 0.2  | 1   | 69 | 1.1  | 1.15  | 7.1  | 141 | D & E JERSEYS                    | TX   |
| 2.369 JCJ TBONE 18614                     | 840003004373665 | 3K  |     | 18614 | 3   | 73  | 1,082 | -0.06 | 39  | -0.02 | 35   | 332  | 323  | 329  | 3.12 | 2.4 | 0.5  | 2   | 72 | 1.2  | 1.48  | 9.2  | 141 | AHLEM, JAMES                     | CA   |
| 2.370 GR RED TOP SHAWNEE 12856            | 067412856       | 8K  | F   | 12856 | 2   | 73  | 1,046 | -0.01 | 47  | 0.00  | 35   | 366  | 348  | 343  | 3.05 | 2.6 | 0.3  | 2   | 75 | 0.2  | -0.17 | 5.9  | 141 | RED TOP JERSEYS                  | CA   |
| 2.371 VALSIGNA SHAH 17047                 | 117490129       | 3K  |     | 17047 | 1   | 68  | 965   | 0.03  | 50  | 0.00  | 35   | 387  | 361  | 348  | 3.06 | 3.0 | -0.1 | 1   | 80 | 0.8  | 1.42  | 7.4  | 141 | WICKSTROM DAIRIES, LP            | CA   |
| 2.372 GR AHLEM GARDEN BUTTONS 31719-ET    | 066069103       | 3K  |     | 31719 | 3   | 72  | 862   | 0.09  | 55  | 0.02  | 35   | 351  | 320  | 307  | 3.15 | 2.5 | 0.2  | 2   | 81 | 1.2  | 2.57  | 5.6  | 141 | AHLEM, WILLIAM JR                | CA   |
| 2.373 CINNAMON RIDGE PLACIDO SUNSHINE     | 116742399       | 8K  | F   | 786   | 2   | 72  | 730   | 0.05  | 43  | 0.04  | 35   | 410  | 354  | 312  | 3.00 | 2.3 | 1.0  | 2   | 84 | 0.2  | 0.86  | 5.4  | 141 | MAXWELL AMY & KARA               | IA   |
| 2.374 VALSIGNA FREEZE 17843               | 117725216       | 3K  |     | 17843 | 1   | 69  | 900   | 0.03  | 47  | 0.00  | 34   | 461  | 424  | 394  | 2.90 | 3.7 | 0.2  | 0   |    | 0.0  | -1.47 | 7.1  | 141 | WICKSTROM DAIRIES, LP            | CA   |
| 2.375 GR SHIPLEY IMPULS SOPHIE            | 067451175       | 8K  | C   | 1175  | 0   | 64  | 569   | 0.12  | 48  | 0.08  | 34   | 475  | 402  | 345  | 2.99 | 3.3 | 1.0  | 0   |    | 0.2  | -1.16 | 5.5  | 141 | ATHERTON, STACEY                 | OH   |
| 2.376 FOREST GLEN IMPULS SALSA            | 067323429       | 3K  |     | 3429  | 2   | 70  | 383   | 0.19  | 54  | 0.10  | 34   | 448  | 358  | 291  | 3.09 | 2.4 | 0.6  | 1   | 83 | 1.1  | 0.96  | 6.1  | 141 | FOREST GLEN JERSEYS              | OR   |
| 2.377 TOLLENAAR RENEGADE 6912-D116-ET     | 840003007843932 | 3K  |     | 6912  | 0   | 61  | 374   | 0.27  | 70  | 0.10  | 34   | 476  | 385  | 315  | 3.06 | 2.7 | 0.6  | 1   | 83 | 1.0  | -0.22 | 5.7  | 141 | TOLLENAAR JERSEYS                | CA   |
| 2.378 D&E CARRIER BLITZEN 21580           | 067521580       | 50K | F   | 1580  | 3   | 76  | 1,387 | -0.20 | 25  | -0.08 | 33   | 293  | 327  | 368  | 3.08 | 3.8 | 0.9  | 2   | 84 | 0.7  | 1.29  | 8.1  | 141 | CHRIST, KATHRYN                  | IL   |
| 2.379 CMR MATINEE BILLIE BETTY            | 116392192       | 3K  |     | 430   | 3   | 71  | 1,143 | 0.03  | 57  | -0.04 | 33   | 371  | 366  | 361  | 2.86 | 1.9 | -0.1 | 2   | 84 | 0.6  | 1.16  | 5.4  | 141 | REESE, COY M                     | NC   |
| 2.380 BILTMORE PARAMOUNT BRENDA 1725      | 113813474       | 3K  |     | 1725  | 5   | 76  | 563   | 0.08  | 43  | 0.07  | 33   | 403  | 333  | 279  | 2.99 | 2.0 | 0.5  | 2   | 90 | 0.9  | 1.84  | 10.2 | 141 | BILTMORE FARMS                   | NC   |
| 2.381 GR FARIA BROTHERS RENEGADE 87747    | 840003004633386 | 6K  | F   | 87747 | 1   | 70  | 472   | 0.20  | 59  | 0.09  | 33   | 450  | 366  | 298  | 2.95 | 1.9 | 0.3  | 1   | 83 | 1.1  | 0.88  | 5.3  | 141 | FARIA BROS DAIRIES               | TX   |
| 2.382 PR VALSIGNA LUCIFER 18024           | 117729788       | 3K  |     | 18024 | 1   | 67  | 953   | 0.07  | 56  | -0.01 | 32   | 271  | 267  | 282  | 3.26 | 1.1 | -1.0 | 0   |    | 2.3  | 5.29  | 7.1  | 141 | WICKSTROM DAIRIES, LP            | CA   |
| 2.383 VALSIGNA SPARKY 17597               | 117612655       | 3K  |     | 17597 | 1   | 70  | 714   | 0.04  | 40  | 0.03  | 32   | 389  | 342  | 305  | 2.96 | 2.5 | 0.1  | 0   | 81 | 1.1  | 1.21  | 9.4  | 141 | WICKSTROM DAIRIES, LP            | CA   |
| 2.384 WILSONVIEW VAL PEPPY                | 117423525       | 8K  | C   | 1791  | 1   | 71  | 712   | 0.08  | 46  | 0.04  | 32   | 386  | 337  | 301  | 2.98 | 2.3 | -0.3 | 1   | 82 | 1.2  | 2.40  | 7.1  | 141 | WILSONVIEW DAIRY                 | OR   |
| 2.385 SUN VALLEY MILITIA POLYNINA         | 115870424       | 3K  |     | 2027  | 4   | 72  | 686   | 0.04  | 39  | 0.05  | 32   | 388  | 338  | 300  | 2.97 | 2.5 | 0.8  | 2   | 82 | 0.6  | 1.82  | 6.6  | 141 | SUN VALLEY FARM                  | OR   |
| 2.386 WILSONVIEW IMPULS SELENA            | 067191476       | 8K  | F   | 1476  | 3   | 71  | 1,071 | -0.07 | 35  | -0.04 | 31   | 366  | 368  | 376  | 2.98 | 3.7 | 0.7  | 2   | 88 | 0.7  | 1.76  | 4.5  | 141 | WILSONVIEW DAIRY                 | OR   |
| 2.387 PR FARIA BROTHERS MAXIMUM DELONDA   | 840003004628999 | 3K  |     | 76360 | 1   | 61  | 933   | 0.18  | 77  | -0.01 | 31   | 455  | 433  | 416  | 2.91 | 2.9 | -0.2 | 0   |    | 0.4  | -0.84 | 4.1  | 141 | FARIA BROS DAIRIES               | TX   |
| 2.388 MS PLUS 3831 G963                   | 117415593       | 8K  | F   | 7963  | 1   | 71  | 725   | 0.09  | 49  | 0.03  | 31   | 402  | 359  | 327  | 2.98 | 1.9 | 1.1  | 1   | 68 | 1.0  | 1.62  | 6.2  | 141 | MOUNTAIN SHADOW DAIRY            | AZ   |
| 2.389 SCOTCH VIEW CHAMP EMILY             | 067301679       | 8K  | C   | 1679  | 1   | 72  | 719   | 0.13  | 60  | 0.03  | 31   | 410  | 374  | 353  | 3.09 | 2.8 | 0.1  | 1   | 78 | 0.7  | 1.01  | 9.1  | 141 | SCOTCH VIEW FARMS                | NY   |
| 2.390 ORTHRIDGE TBONE JANESSA-P           | 067116767       | 3K  |     | 767   | 1   | 68  | 438   | 0.09  | 38  | 0.07  | 31   | 392  | 322  | 270  | 3.08 | 2.5 | 0.0  | 1   | 84 | 1.3  | 3.03  | 7.3  | 141 | ORTHRIDGE FARMS                  | WI   |
| 2.391 GR VALSIGNA ARON 17730              | 117613937       | 3K  |     | 17730 | 1   | 65  | 1,475 | -0.16 | 38  | -0.11 | 30   | 304  | 351  | 395  | 2.90 | 2.7 | 0.9  | 0   | 73 | 1.2  | 2.04  | 3.6  | 141 | WICKSTROM DAIRIES, LP            | CA   |
| 2.392 CAL-MART VIBRANT JACOLYN 3528       | 117200838       | 3K  |     | 3528  | 2   | 71  | 950   | 0.06  | 55  | -0.02 | 30   | 459  | 439  | 420  | 2.82 | 3.4 | -0.1 | 1   | 71 | -0.3 | -1.10 | 7.3  | 141 | MARTIN DAIRY LLC                 | OR   |
| 2.393 JEVON MAY 688                       | 117052341       | 3K  |     | 942   | 1   | 70  | 920   | 0.05  | 52  | -0.01 | 30   | 437  | 415  | 397  | 2.86 | 3.6 | 0.2  | 2   | 82 | 0.7  | 0.97  | 9.2  | 141 | CLEVELAND, CORY                  | LA   |
| 2.394 JER-Z-BOYZ MAXIMUM 34579            | 117494561       | 3K  |     | 34579 | 1   | 67  | 908   | 0.08  | 58  | -0.01 | 30   | 426  | 410  | 401  | 2.96 | 3.3 | 0.2  | 1   | 77 | 0.4  | 0.18  | 5.6  | 141 | JER-Z-BOYZ                       | CA   |
| 2.395 SUNSET CANYON IMPULS M BELLE        | 117595767       | 3K  |     | 2025  | 1   | 65  | 869   | 0.07  | 51  | 0.00  | 30   | 397  | 386  | 389  | 3.14 | 3.4 | 1.1  | 0   | 82 | 0.9  | 1.17  | 4.6  | 141 | SILVA, ERIC LEONARD              | OR   |
| 2.396 SMJ ARTIST GIFT                     | 067171095       | 50K | F   | 1095  | 5   | 76  | 575   | 0.10  | 46  | 0.06  | 30   | 476  | 410  | 350  | 2.80 | 3.2 | 1.1  | 2   | 87 | 0.0  | -0.76 | 6.2  | 141 | SILVER MAPLE FARMS INC           | ME   |
| 2.397 PEARLMONT HEADLINE MYSTIC           | 067139417       | 3K  |     | 417   | 1   | 69  | 1,400 | -0.14 | 36  | -0.11 | 29   | 262  | 314  | 366  | 3.03 | 2.8 | 0.1  | 1   | 82 | 1.8  | 4.33  | 8.7  | 141 | PEARL, DANIEL                    | VT   |
| 2.398 DUPAT HEADLINE 7926-ET              | 067297926       | 3K  |     | 7926  | 1   | 71  | 1,033 | -0.18 | 12  | -0.05 | 29   | 379  | 376  | 371  | 2.82 | 4.9 | 0.7  | 1   | 79 | 1.4  | 2.45  | 7.8  | 141 | KRUEGER ROBIN AND KESSENICH WADE | WI   |
| 2.399 DP BOOKER KATIE 1002                | 067791002       | 8K  | C   | 1002  | 1   | 71  | 996   | 0.01  | 46  | -0.03 | 29   | 427  | 421  | 417  | 2.86 | 4.0 | 0.3  | 0   |    | 0.5  | 0.08  | 7.6  | 141 | DESERT PARK JERSEYS              | OR   |
| 2.400 AHLEM IATOLA FREDA 30620            | 065339993       | 8K  | F   | 30620 | 4   | 77  | 550   | 0.15  | 53  | 0.06  | 29   | 415  | 358  | 314  | 2.97 | 2.4 | -0.7 | 2   | 85 | 1.9  | 3.29  | 10.2 | 141 | AHLEM, WILLIAM JR                | CA   |



## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                   | Reg #            | GT | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      | Owner | ST   |     |                                   |      |
|--|------------------|----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|------|-----|-----------------------------------|------|
|  |                  |    |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                               | GJPI |
| 2,401 SR ARTIST AVON                   | 114276106        | GI |     | 353   | 5   | 71  | 1,281 | -0.16 | 28  | -0.09 | 28   | 370  | 398  | 419  | 2.79 | 4.0  | 0.8  | 2   | 87 | 0.8  | 1.25  | 3.8  | 141 | PETERS, COLE LOGAN                | PA   |
| 2,402 AHLEM HEADLINE BEAUTY 36149      | 070047623        | 8K | F   | 36149 | 1   | 73  | 1,097 | -0.10 | 30  | -0.05 | 28   | 330  | 340  | 352  | 2.90 | 2.7  | 0.2  | 1   | 82 | 1.7  | 3.75  | 9.6  | 141 | AHLEM, WILLIAM JR                 | CA   |
| 2,403 BW BLACKSTONE AUDREY ET619-ET    | 116541550        | 3K |     | 898   | 3   | 75  | 949   | 0.00  | 46  | -0.03 | 28   | 340  | 341  | 349  | 3.05 | 2.5  | -0.3 | 3   | 80 | 1.8  | 3.97  | 8.7  | 141 | BRENTWOOD FARMS                   | CA   |
| 2,404 MOO DANDY BRINGLE 1132           | 067601132        | 8K | F   | 1132  | 1   | 69  | 787   | 0.04  | 45  | -0.01 | 28   | 395  | 371  | 353  | 2.92 | 3.6  | -0.3 | 0   |    | 1.0  | 3.24  | 7.8  | 141 | MOORE, BRIAN J                    | NC   |
| 2,405 HILMAR SPARKY 33991              | 067433991        | 6K | F   | 33991 | 1   | 70  | 506   | 0.08  | 38  | 0.05  | 28   | 425  | 368  | 322  | 2.96 | 3.2  | 0.1  | 0   | 83 | 1.0  | 2.28  | 8.1  | 141 | AHLEM, CHARLES                    | CA   |
| 2,406 PETERSON LEGAL WINNIE            | 117765559        | 8K | C   | 853   | 1   | 67  | 404   | 0.04  | 25  | 0.08  | 28   | 427  | 355  | 294  | 2.92 | 3.2  | 1.6  | 0   | 72 | 0.8  | 2.25  | 5.7  | 141 | PETERSON ERIC & ROY               | OR   |
| 2,407 OHIO IMPULS CIERA OF OAKHAVEN    | 117995110        | 8K | F   | 701   | 0   | 63  | 285   | 0.20  | 51  | 0.10  | 28   | 469  | 383  | 309  | 2.90 | 2.8  | 0.6  | 0   |    | 0.6  | 1.52  | 6.3  | 141 | BLACKBURN NICK & OAKHAVEN JERSEYS | OH   |
| 2,408 EVANGELO IATOLA                  | 067038279        | 6K | F   | 279   | 4   | 75  | 683   | 0.02  | 36  | 0.01  | 27   | 368  | 332  | 300  | 2.87 | 1.8  | 0.1  | 2   | 90 | 1.7  | 4.69  | 10.0 | 141 | EVANGELO, MATTHEW                 | CA   |
| 2,409 LUCKY HILL LEGAL JESSIE-ET       | 117735987        | 3K |     | 891   | 1   | 70  | 919   | -0.06 | 29  | -0.03 | 26   | 374  | 364  | 350  | 2.77 | 3.4  | -0.2 | 0   | 85 | 1.9  | 4.55  | 8.3  | 141 | LUCKY HILL FARM                   | VT   |
| 2,410 CAL-MART HEADLINE LACI 5286      | 067245286        | 6K | C   | 5286  | 1   | 70  | 875   | 0.02  | 44  | -0.02 | 26   | 431  | 428  | 430  | 2.98 | 5.0  | 0.7  | 0   | 76 | 1.1  | 1.07  | 6.9  | 141 | MARTIN DAIRY LLC                  | OR   |
| 2,411 AHLEM IATOLA SHEBA 19875         | 064553429        | 8K | F   | 19875 | 3   | 74  | 720   | 0.07  | 46  | 0.00  | 26   | 371  | 341  | 314  | 2.85 | 2.1  | 0.1  | 3   | 88 | 1.6  | 4.13  | 7.5  | 141 | AHLEM, WILLIAM JR                 | CA   |
| 2,412 WILSONVIEW LEGAL GABS            | 117423271        | 8K | C   | 1785  | 1   | 71  | 670   | -0.07 | 18  | 0.01  | 26   | 366  | 338  | 319  | 3.00 | 3.4  | 1.1  | 1   | 86 | 1.7  | 4.79  | 7.1  | 141 | WILSONVIEW DAIRY                  | OR   |
| 2,413 SUNSET CANYON ALLSTAR CP BELLE   | 117684508        | 6K | F   | 2055  | 0   | 65  | 453   | 0.32  | 79  | 0.05  | 26   | 443  | 386  | 338  | 2.93 | 1.7  | -0.6 | 0   | 86 | 1.7  | 3.58  | 6.7  | 141 | SUNSET CANYON, CROSS & FRIGOT     | OR   |
| 2,414 CAL-MART LOTTO TABBY 5113        | 067385113        | 6K | F   | 5113  | 1   | 69  | 297   | 0.31  | 72  | 0.08  | 26   | 507  | 428  | 358  | 2.85 | 3.0  | -0.3 | 0   | 78 | 0.7  | 1.10  | 6.1  | 141 | MARTIN DAIRY LLC                  | OR   |
| 2,415 VALSIGNA ARON 17144              | 117551327        | 3K |     | 17144 | 1   | 70  | 548   | 0.08  | 38  | 0.04  | 25   | 408  | 366  | 329  | 2.90 | 3.6  | -0.5 | 1   | 82 | 1.5  | 3.51  | 8.8  | 141 | WICKSTROM DAIRIES, LP             | CA   |
| 2,416 PR FARIA BROTHERS RENEGADE 69873 | 8400030071171991 | 6K | F   | 69873 | 1   | 71  | 496   | 0.15  | 52  | 0.04  | 25   | 441  | 395  | 358  | 2.96 | 3.1  | 0.3  | 1   | 83 | 0.9  | 2.19  | 7.0  | 141 | FARIA DAIRY                       | AZ   |
| 2,417 AHLEM LEGAL DEB 35720            | 069042926        | 8K | F   | 35720 | 1   | 70  | 662   | 0.01  | 33  | 0.00  | 24   | 311  | 292  | 281  | 3.03 | 2.0  | -0.5 | 1   | 87 | 2.3  | 7.61  | 7.1  | 141 | AHLEM, WILLIAM JR                 | CA   |
| 2,418 JARS OF CLAY VERMEER KATHY       | 067243209        | 8K | F   | 3209  | 1   | 72  | 646   | 0.08  | 47  | 0.00  | 24   | 445  | 419  | 398  | 2.90 | 3.9  | 1.0  | 1   | 75 | 0.4  | 0.92  | 7.7  | 141 | RANCHO TERESITA DAIRY             | CA   |
| 2,419 BW RENEGADE ZILVIA U896          | 117318476        | 6K | F   | 928   | 1   | 72  | 271   | 0.28  | 67  | 0.08  | 24   | 457  | 394  | 345  | 3.05 | 3.1  | -0.6 | 1   | 86 | 1.9  | 3.48  | 8.3  | 141 | BRENTWOOD FARMS                   | CA   |
| 2,420 CHASIN-RAINBOWS HEADLINE POPPY   | 067093539        | 3K |     | 539   | 1   | 70  | 941   | -0.06 | 31  | -0.06 | 23   | 395  | 408  | 418  | 2.87 | 5.4  | 0.3  | 0   | 85 | 1.0  | 2.99  | 7.7  | 141 | TOHL, PATTI                       | OR   |
| 2,421 AHLEM HEADLINE MAID 34174-ET     | 069041380        | 3K |     | 34174 | 2   | 72  | 924   | 0.01  | 43  | -0.05 | 23   | 392  | 409  | 432  | 3.05 | 5.0  | 0.2  | 2   | 90 | 2.1  | 4.11  | 8.3  | 141 | AHLEM FARMS PARTNERSHIP           | CA   |
| 2,422 GR SUNWEST DUNKIRK MARQUEE F2865 | 067042865        | 3K |     | 2865  | 5   | 75  | 800   | 0.03  | 43  | -0.03 | 23   | 421  | 409  | 393  | 2.78 | 4.0  | 0.5  | 2   | 90 | 0.7  | 1.77  | 7.8  | 141 | SUNWEST JERSEY DAIRY              | CA   |
| 2,423 K&K LOUIE 260-ET SILVA 2261      | 067092261        | 3K |     | 2261  | 4   | 73  | 638   | 0.07  | 43  | 0.00  | 23   | 421  | 394  | 369  | 2.84 | 3.5  | 0.6  | 2   | 88 | 0.9  | 2.85  | 7.0  | 141 | ALLEN, DAVID                      | WI   |
| 2,424 BW RENEGADE ILYSSIA W393         | 117607176        | 3K |     | 110   | 0   | 61  | 471   | 0.14  | 50  | 0.03  | 23   | 410  | 369  | 338  | 2.98 | 2.8  | 0.7  | 0   | 81 | 2.3  | 4.17  | 5.5  | 141 | BRENTWOOD FARMS                   | CA   |
| 2,425 AHLEM LEGAL VETTE 37469          | 070048943        | 3K |     | 37469 | 1   | 67  | 662   | -0.03 | 25  | -0.01 | 22   | 376  | 364  | 357  | 2.97 | 4.7  | 0.3  | 1   | 81 | 2.1  | 5.54  | 8.1  | 141 | AHLEM, WILLIAM JR                 | CA   |
| 2,426 DUTCH HOLLOW RENEGADE DORA       | 067184427        | 8K | F   | 4427  | 1   | 72  | 627   | 0.16  | 57  | 0.00  | 22   | 402  | 382  | 367  | 2.94 | 2.7  | 0.4  | 1   | 86 | 1.6  | 3.67  | 7.4  | 141 | CHITTENDEN, DONNA OOMS            | NY   |
| 2,427 AHLEM LEGAL NELLY 35675          | 069042881        | 8K | F   | 35675 | 1   | 70  | 613   | 0.04  | 35  | 0.01  | 22   | 354  | 340  | 335  | 3.06 | 3.2  | 0.6  | 1   | 87 | 2.1  | 5.82  | 7.0  | 141 | AHLEM, WILLIAM JR                 | CA   |
| 2,428 GR AHLEM GANNON QUEEN 34843      | 069042049        | 8K | F   | 34843 | 2   | 71  | 736   | 0.00  | 30  | -0.04 | 20   | 369  | 364  | 355  | 2.77 | 4.1  | 0.3  | 2   | 85 | 1.5  | 5.28  | 5.3  | 141 | AHLEM, WILLIAM JR                 | CA   |
| 2,429 VALSIGNA ACADEMY 17969           | 117726365        | 3K |     | 17969 | 1   | 68  | 594   | 0.05  | 36  | 0.00  | 20   | 436  | 417  | 399  | 2.88 | 5.2  | 0.3  | 0   |    | 1.3  | 3.93  | 6.9  | 141 | WICKSTROM DAIRIES, LP             | CA   |
| 2,430 JER-Z-BOYZ VERMEER 33373         | 117852567        | 3K |     | 33373 | 2   | 68  | 151   | 0.26  | 54  | 0.08  | 20   | 517  | 447  | 385  | 2.89 | 4.8  | 0.6  | 2   | 85 | 0.3  | 2.45  | 5.3  | 141 | JER-Z-BOYZ                        | CA   |
| 2,431 CLOVER PATCH LEGAL MOLLY         | 117268614        | 8K | C   | 1911  | 2   | 71  | 510   | 0.09  | 39  | 0.01  | 19   | 486  | 457  | 427  | 2.81 | 5.4  | 0.8  | 1   | 81 | 1.3  | 2.89  | 6.4  | 141 | KOZAK, ALAN                       | OH   |
| 2,432 SUPER-K JACE LACY                | 067004043        | 8K | F   | 216   | 5   | 75  | 167   | 0.17  | 38  | 0.06  | 16   | 534  | 465  | 389  | 2.58 | 5.1  | 0.2  | 2   | 94 | 1.4  | 3.89  | 8.2  | 141 | NORSE STAR JERSEYS                | WI   |
| 2,433 HAWARDEN PREMIER ZENA            | 067125584        | 3K |     | 1029  | 1   | 67  | 210   | 0.17  | 39  | 0.04  | 15   | 431  | 397  | 372  | 3.03 | 4.1  | 1.3  | 1   | 87 | 1.6  | 5.32  | 7.2  | 141 | BRENTWOOD FARMS                   | CA   |
| 2,434 DEN-KEL JAKE WUZZER              | 067100739        | 8K | C   | 739   | 1   | 67  | 1,508 | -0.08 | 54  | 0.01  | 55   | 209  | 174  | 164  | 3.20 | -2.2 | -1.6 | 1   | 78 | 0.9  | 0.99  | 8.6  | 140 | KELLER KIP & ROBIN                | NY   |
| 2,435 HOLMESLAND MILITIA PATTY         | 116560357        | 3K |     | 1336  | 3   | 71  | 1,445 | -0.08 | 50  | -0.02 | 49   | 310  | 304  | 328  | 3.41 | 1.7  | 0.2  | 2   | 88 | 0.4  | -1.50 | 6.4  | 140 | HOLMES STEVEN B & JEFFREY A       | NH   |
| 2,436 SUN VALLEY IMPULS LUCINDIE       | 115212943        | 3K |     | 1792  | 5   | 73  | 1,095 | -0.02 | 46  | 0.01  | 40   | 328  | 303  | 297  | 3.17 | 1.5  | 0.3  | 2   | 88 | 0.3  | 1.01  | 6.8  | 140 | SUN VALLEY FARM                   | OR   |
| 2,437 GR CAL-MART DALE SHANTELL 2817   | 116699815        | 3K |     | 663   | 3   | 69  | 927   | 0.06  | 52  | 0.03  | 39   | 412  | 364  | 329  | 2.98 | 3.1  | -0.1 | 2   | 87 | 0.0  | -0.35 | 4.1  | 140 | MARTIN DAIRY LLC                  | OR   |
| 2,438 DUPAT PLUS 9002                  | 067369002        | 6K | C   | 9002  | 1   | 72  | 1,357 | -0.16 | 33  | -0.05 | 37   | 307  | 316  | 331  | 2.99 | 2.2  | 0.0  | 0   | 74 | 0.9  | 1.75  | 8.4  | 140 | WICKSTROM JERSEY FARMS INC        | CA   |
| 2,439 FOREST GLEN ABES ADVENTURE       | 067323377        | 8K | F   | 3377  | 1   | 71  | 1,124 | -0.03 | 44  | -0.02 | 37   | 366  | 343  | 327  | 2.89 | 1.6  | 0.1  | 1   | 84 | 0.7  | 0.22  | 7.1  | 140 | BANSEN, DAN K                     | OR   |
| 2,440 HILMAR SPIKE 27089               | 067327089        | 6K | F   | 27089 | 2   | 74  | 1,022 | 0.01  | 48  | 0.01  | 37   | 337  | 308  | 289  | 2.98 | 0.9  | -0.8 | 0   | 83 | 1.7  | 2.57  | 9.7  | 140 | AHLEM, CHARLES                    | CA   |
| 2,441 GIESEKES TBONE HILITE            | 067191611        | 8K | F   | 1611  | 2   | 74  | 870   | 0.00  | 40  | 0.03  | 37   | 349  | 307  | 280  | 3.06 | 1.8  | 0.0  | 2   | 84 | 1.3  | 1.44  | 10.2 | 140 | LEHNERTZ, TRAVIS                  | MN   |
| 2,442 D&E MERCHANT VIOLET 50023-ET     | 067150023        | 3K |     | 50023 | 1   | 70  | 983   | 0.06  | 56  | 0.00  | 36   | 348  | 317  | 297  | 2.97 | 1.9  | -2.5 | 1   | 83 | 1.7  | 3.80  | 7.0  | 140 | D & E JERSEYS                     | TX   |
| 2,443 AHLEM ECLIPES SUNSPRYT 37731-P   | 070049205        | 6K | F   | 37731 | 0   | 68  | 939   | 0.03  | 50  | 0.01  | 36   | 304  | 271  | 250  | 3.02 | 0.7  | -0.9 | 0   | 73 | 1.7  | 3.67  | 10.4 | 140 | AHLEM, WILLIAM JR                 | CA   |
| 2,444 AHLEM TBONE JAN 33459            | 066622892        | 3K |     | 33459 | 2   | 72  | 834   | -0.01 | 37  | 0.04  | 36   | 331  | 281  | 244  | 2.98 | 1.0  | 0.4  | 2   | 75 | 1.9  | 2.64  | 10.2 | 140 | AHLEM, WILLIAM JR                 | CA   |
| 2,445 SUNWEST DUKE ABE M24923          | 840003005688251  | 3K |     | 24923 | 2   | 71  | 532   | 0.13  | 49  | 0.08  | 36   | 405  | 321  | 255  | 3.00 | 1.6  | 0.7  | 2   | 83 | 0.4  | 0.66  | 6.3  | 140 | SUNWEST JERSEY DAIRY              | CA   |
| 2,446 K&K ARTIST 2835                  | 067132835        | 3K |     | 431   | 3   | 72  | 1,220 | -0.06 | 46  | -0.04 | 35   | 382  | 386  | 399  | 3.03 | 3.1  | 0.9  | 2   | 80 | 0.0  | -1.01 | 5.8  | 140 | D & D JERSEYS                     | WI   |
| 2,447 D&E VIRGIL KELSEA 22174          | 067422174        | 3K |     | 22174 | 1   | 68  | 1,183 | -0.02 | 51  | -0.03 | 35   | 357  | 359  | 374  | 3.11 | 2.6  | -0.6 | 1   | 80 | 0.8  | 1.39  | 6.3  | 140 | D & E JERSEYS                     | TX   |
| 2,448 AHLEM REGION MARVEL 36164        | 070047638        | 8K | F   | 36164 | 1   | 71  | 1,122 | -0.01 | 51  | -0.03 | 35   | 317  | 304  | 295  | 2.90 | 1.0  | -1.5 | 2   | 86 | 1.5  | 3.72  | 8.6  | 140 | AHLEM, WILLIAM JR                 | CA   |
| 2,449 WILSONVIEW NATHAN SUDDEN         | 117705249        | 8K | F   | 1611  | 2   | 73  | 986   | 0.11  | 66  | 0.00  | 35   | 365  | 336  | 315  | 2.93 | 0.9  | -0.8 | 2   | 87 | 1.0  | 1.27  | 8.7  | 140 | WILSONVIEW DAIRY                  | OR   |
| 2,450 HEARTLAND ABE LAINEY             | 067342193        | 8K | F   | 2193  | 2   | 73  | 790   | 0.12  | 59  | 0.03  | 35   | 410  | 359  | 320  | 2.95 | 2.4  | -1.1 | 1   | 80 | 0.9  | 0.33  | 7.4  | 140 | HEARTLAND JERSEYS                 | KS   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                  | Reg #           | GT | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      | Owner | ST   |     |                               |      |
|---------------------------------------|-----------------|----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|------|-----|-------------------------------|------|
|                                       |                 |    |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                           | GJPI |
| 2.451 BW RENEGADE ALYSSIA W434        | 117660694       | 3K |     | 1403             | 1   | 69  | 697   | 0.16  | 60  | 0.05  | 35   | 400  | 338  | 292              | 2.99 | 1.4 | -0.5 | 0   | 79 | 1.2  | 1.60  | 6.9  | 140 | BRENTWOOD FARMS               | CA   |
| 2.452 BERRYS ACADEMY LILLY-ET         | 117317345       | 3K |     | 320              | 1   | 69  | 1,034 | 0.00  | 47  | -0.02 | 34   | 336  | 322  | 318              | 3.01 | 2.0 | 0.5  | 1   | 78 | 0.6  | 1.79  | 8.2  | 140 | ELLENBURG, DYLAN              | TN   |
| 2.453 NEZINSCOT IMPULS TESS           | 117051603       | 8K | F   | 4203             | 3   | 72  | 895   | 0.09  | 57  | 0.01  | 34   | 368  | 339  | 326              | 3.10 | 1.7 | -0.1 | 2   | 91 | 1.1  | 2.10  | 5.1  | 140 | OHIO STATE UNIVERSITY         | OH   |
| 2.454 MILLS TBONE LOCKET              | 117503043       | 8K | F   | 7153             | 1   | 71  | 767   | 0.13  | 62  | 0.04  | 34   | 370  | 326  | 297              | 3.05 | 1.6 | -0.6 | 1   | 81 | 1.5  | 2.16  | 9.0  | 140 | MILLS JERSEY FARM LLC         | NV   |
| 2.455 HILMAR LEAL 29271               | 067329271       | 3K |     | 29271            | 1   | 70  | 1,407 | -0.15 | 36  | -0.09 | 33   | 272  | 304  | 338              | 2.99 | 2.0 | -0.5 | 1   | 81 | 1.6  | 3.62  | 8.4  | 140 | AHLEM, CHARLES                | CA   |
| 2.456 AHLEM HEADLINE AUTUMN 36664     | 070048138       | 8K | F   | 36664            | 1   | 71  | 1,342 | -0.15 | 33  | -0.07 | 33   | 292  | 318  | 351              | 3.05 | 2.7 | -0.6 | 1   | 81 | 1.3  | 3.54  | 8.5  | 140 | AHLEM, WILLIAM JR             | CA   |
| 2.457 YOSEMITE LEGAL ABRAM P24319     | 840003008442969 | 6K | F   | 24319            | 1   | 68  | 1,308 | -0.12 | 35  | -0.07 | 33   | 353  | 373  | 398              | 2.98 | 3.7 | 0.3  | 0   | 75 | 0.7  | 1.43  | 6.2  | 140 | YOSEMITE JERSEY DAIRY         | CA   |
| 2.458 FOREST GLEN LOUIES GOLDEN       | 067354349       | 6K | F   | 4349             | 1   | 69  | 998   | 0.02  | 48  | 0.00  | 33   | 406  | 387  | 374              | 2.94 | 3.5 | 0.1  | 0   | 82 | 0.6  | 0.68  | 6.2  | 140 | FOREST GLEN JERSEYS           | OR   |
| 2.459 DP VALENTINO JANET 1006         | 067791006       | 3K |     | 1006             | 1   | 70  | 959   | -0.08 | 27  | -0.01 | 33   | 299  | 284  | 284              | 3.13 | 2.5 | 0.0  | 0   | 77 | 1.4  | 4.01  | 9.3  | 140 | DESERT PARK JERSEYS           | OR   |
| 2.460 FOREST GLEN LOUIES MICHELLE     | 067354050       | 3K |     | 4050             | 1   | 68  | 618   | 0.18  | 66  | 0.05  | 33   | 417  | 357  | 311              | 3.00 | 1.9 | -0.4 | 0   |    | 1.4  | 1.87  | 7.7  | 140 | ZEINSTRAL FARMS LLC           | MI   |
| 2.461 VALSIGNA SPARKY 17630           | 117612981       | 3K |     | 17630            | 0   | 63  | 489   | 0.13  | 48  | 0.07  | 33   | 360  | 290  | 239              | 3.10 | 0.9 | -0.4 | 0   |    | 1.3  | 2.98  | 9.9  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.462 ALICORT FARM TBONE WORRY        | 067040458       | 6K | F   | 80               | 1   | 72  | 434   | 0.16  | 48  | 0.09  | 33   | 361  | 275  | 202              | 2.92 | 0.1 | -1.4 | 1   | 85 | 1.9  | 4.96  | 8.9  | 140 | PATZ, VIRGINIA                | VT   |
| 2.463 CASCADIA PLUS ELANA             | 117485426       | 8K | F   | 1771             | 1   | 71  | 983   | 0.00  | 43  | -0.01 | 32   | 322  | 309  | 305              | 3.01 | 1.5 | 0.2  | 0   | 87 | 1.6  | 3.40  | 8.3  | 140 | HANSEN PHILLIP A & CHRISTIE M | OR   |
| 2.464 CAL-MART ECLIPES BUFFY 5264-P   | 067245264       | 8K | F   | 5264             | 0   | 66  | 873   | 0.05  | 50  | 0.00  | 32   | 332  | 305  | 287              | 2.97 | 1.4 | -0.6 | 0   | 81 | 2.3  | 4.13  | 7.2  | 140 | MARTIN DAIRY LLC              | OR   |
| 2.465 EASTGLEN TBONE RHONDA           | 055658159       | 8K | C   | 4659             | 1   | 73  | 832   | 0.01  | 39  | 0.00  | 32   | 304  | 277  | 263              | 3.06 | 1.0 | 0.1  | 1   | 87 | 1.7  | 4.06  | 9.9  | 140 | EASTGLEN FARMS                | SC   |
| 2.466 HILMAR SUNDANCE 33723           | 067433723       | 8K | C   | 33723            | 1   | 67  | 745   | 0.07  | 46  | 0.03  | 32   | 427  | 378  | 336              | 2.88 | 3.1 | -0.4 | 0   | 82 | 0.4  | 1.80  | 5.7  | 140 | AHLEM, CHARLES                | CA   |
| 2.467 MS ARTIST 4681 F584             | 116430601       | 3K |     | 6584             | 3   | 73  | 1,034 | -0.02 | 44  | -0.03 | 31   | 393  | 386  | 382              | 2.90 | 2.7 | 1.1  | 2   | 78 | 0.2  | -0.47 | 6.3  | 140 | MOUNTAIN SHADOW DAIRY         | AZ   |
| 2.468 TOLLENAAR MATINEE 4741          | 062953655       | 3K |     | 4741             | 2   | 70  | 971   | 0.02  | 49  | -0.02 | 31   | 433  | 417  | 404              | 2.87 | 3.6 | 1.2  | 2   | 85 | 0.2  | -1.19 | 6.4  | 140 | TOLLENAAR JERSEYS             | CA   |
| 2.469 OOMS DALE LEGAL GARYN GALYA-ET  | 067138552       | 3K |     | 552              | 1   | 65  | 917   | -0.04 | 33  | -0.01 | 31   | 295  | 288  | 296              | 3.18 | 2.2 | 1.1  | 1   | 82 | 1.7  | 4.91  | 4.4  | 140 | OOMS, MICHAEL AREND           | NY   |
| 2.470 FOREST GLEN LOUIES SAMI         | 067323537       | 3K |     | 3537             | 1   | 68  | 883   | 0.12  | 64  | 0.00  | 31   | 479  | 448  | 422              | 2.86 | 4.0 | 0.9  | 1   | 69 | -0.2 | -2.17 | 5.5  | 140 | DEN HOED DAIRY INC            | WA   |
| 2.471 GR BUTTERCREST DALE FLING       | 116721862       | 3K |     | 383              | 2   | 70  | 598   | 0.14  | 52  | 0.05  | 31   | 436  | 379  | 335              | 2.99 | 2.9 | 0.8  | 2   | 82 | 0.5  | 0.54  | 4.5  | 140 | COOPERRIDER & SONS            | OH   |
| 2.472 EVANGELO PROTECTOR JADA         | 067088518       | 6K | F   | 518              | 2   | 73  | 962   | -0.02 | 41  | -0.02 | 30   | 324  | 321  | 330              | 3.11 | 2.0 | 0.2  | 3   | 90 | 1.3  | 3.71  | 8.2  | 140 | EVANGELO, ANTHONY             | CA   |
| 2.473 VALSIGNA SPARKY 17701           | 117613647       | 3K |     | 17701            | 1   | 70  | 933   | -0.03 | 37  | -0.02 | 30   | 354  | 338  | 327              | 2.91 | 2.7 | -0.2 | 0   | 78 | 0.8  | 2.87  | 8.7  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.474 CAL-MART LOUIE MERRY 5002       | 067125002       | 8K | C   | 5002             | 1   | 71  | 1,115 | 0.06  | 61  | -0.06 | 29   | 410  | 426  | 448              | 3.02 | 3.8 | 0.4  | 1   | 80 | 0.8  | 0.21  | 6.8  | 140 | MARTIN DAIRY LLC              | OR   |
| 2.475 AHLEM LEGAL GENEVEVE 35031      | 069042237       | 8K | C   | 35031            | 1   | 72  | 714   | -0.04 | 24  | 0.02  | 29   | 383  | 349  | 323              | 2.95 | 3.4 | 0.3  | 1   | 83 | 1.4  | 3.32  | 8.5  | 140 | AHLEM, WILLIAM JR             | CA   |
| 2.476 GR HILMAR IMPULS 18637          | 067218637       | 3K |     | 18637            | 4   | 72  | 447   | 0.15  | 50  | 0.06  | 29   | 469  | 401  | 346              | 2.94 | 3.6 | 0.6  | 2   | 74 | -0.6 | -0.26 | 4.4  | 140 | AHLEM, CHARLES                | CA   |
| 2.477 BARHAMS VALENTINO BRANDY-ET     | 117372203       | 3K |     | 784              | 1   | 70  | 880   | 0.01  | 42  | -0.02 | 27   | 373  | 359  | 347              | 2.87 | 2.4 | -0.3 | 0   |    | 1.8  | 3.82  | 7.8  | 140 | BARHAM, RICHARD L             | TN   |
| 2.478 LAWTONS ACTION SKIMMER          | 116834012       | 3K |     | 856              | 2   | 73  | 867   | -0.04 | 34  | -0.02 | 27   | 387  | 375  | 366              | 2.92 | 3.3 | 0.1  | 2   | 83 | 1.7  | 3.10  | 10.4 | 140 | LAWTON, MERLE                 | NY   |
| 2.479 ASPEN GROVE BRAVEHEART RAISIE   | 116843764       | 3K |     | 389              | 3   | 69  | 595   | 0.01  | 29  | 0.03  | 27   | 425  | 382  | 346              | 2.91 | 4.0 | 1.0  | 3   | 87 | 0.3  | 1.28  | 7.1  | 140 | ORTH RIDGE FARMS              | WI   |
| 2.480 D&E ABE LORIANNE 10868          | 067410868       | 3K |     | 10868            | 5   | 74  | 576   | 0.08  | 41  | 0.03  | 27   | 452  | 399  | 348              | 2.78 | 3.6 | -0.7 | 2   | 84 | 0.8  | 1.80  | 7.5  | 140 | D & E JERSEYS                 | TX   |
| 2.481 DC IMPULS NORMA                 | 067060430       | 3K |     | 430              | 3   | 68  | 181   | 0.22  | 48  | 0.11  | 27   | 454  | 367  | 296              | 3.02 | 2.6 | 0.9  | 2   | 91 | 1.2  | 3.07  | 4.6  | 140 | CHUGG, DALE                   | UT   |
| 2.482 TOLLENAAR HEADLINE 6650B880-ET  | 840003007398728 | 3K |     | 6650             | 0   | 64  | 842   | 0.00  | 39  | -0.02 | 26   | 422  | 418  | 421              | 3.01 | 5.4 | 0.6  | 1   | 86 | 0.9  | 1.58  | 7.6  | 140 | TOLLENAAR JERSEYS             | CA   |
| 2.483 CAL-MART BLADE FELKA 3953       | 117516463       | 3K |     | 3953             | 1   | 65  | 478   | 0.20  | 58  | 0.05  | 26   | 443  | 384  | 329              | 2.82 | 3.1 | -0.3 | 1   | 81 | 0.8  | 2.49  | 4.0  | 140 | MARTIN DAIRY LLC              | OR   |
| 2.484 VALSIGNA ACADEMY 17126          | 117551158       | 3K |     | 17126            | 1   | 70  | 867   | 0.04  | 46  | -0.03 | 25   | 357  | 352  | 351              | 2.93 | 3.1 | 0.7  | 1   | 77 | 1.1  | 3.31  | 7.7  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.485 AHLEM IATOLA ALLURE 30264       | 065339637       | 8K | F   | 30264            | 4   | 77  | 629   | 0.03  | 35  | 0.01  | 25   | 379  | 349  | 324              | 2.91 | 2.3 | 0.6  | 3   | 87 | 2.0  | 3.92  | 9.2  | 140 | AHLEM, WILLIAM JR             | CA   |
| 2.486 SLYE HOLLOW IMPULSIVE TATUM     | 116297590       | 3K |     | 523              | 2   | 68  | 253   | 0.03  | 19  | 0.09  | 25   | 456  | 374  | 299              | 2.84 | 4.4 | 1.2  | 2   | 90 | 0.7  | 2.92  | 5.3  | 140 | WHITE, BENJAMIN R             | VT   |
| 2.487 VALSIGNA ACADEMY 18336          | 117729519       | 6K | F   | 18336            | 0   | 64  | 1,133 | -0.09 | 35  | -0.08 | 24   | 355  | 390  | 423              | 2.93 | 4.6 | 0.9  | 0   | 81 | 1.2  | 3.00  | 6.3  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.488 SHENANDOAH ACADEMY GARDEN       | 117467161       | 8K | C   | 705              | 1   | 73  | 1,036 | -0.15 | 20  | -0.06 | 24   | 317  | 336  | 352              | 2.86 | 3.5 | 0.8  | 1   | 84 | 1.6  | 5.32  | 8.5  | 140 | SHENANDOAH JERSEYS            | MD   |
| 2.489 BARLASS MARSHALL IVANNA         | 114743385       | 3K |     | 1305             | 4   | 75  | 771   | -0.13 | 12  | -0.01 | 24   | 373  | 361  | 353              | 2.92 | 4.2 | 1.6  | 2   | 90 | 1.0  | 3.88  | 6.5  | 140 | BARLASS JERSEYS LLC           | WI   |
| 2.490 FANELLI SPARKY NELLY 6451       | 117448289       | 6K | C   | 6451             | 1   | 72  | 379   | 0.17  | 50  | 0.06  | 24   | 397  | 343  | 300              | 2.98 | 2.3 | -0.1 | 1   | 76 | 1.5  | 4.34  | 8.6  | 140 | FANELLI PHIL & FAMILY         | CA   |
| 2.491 AHLEM HEADLINE GINNY 36320      | 070047794       | 3K |     | 36320            | 1   | 71  | 934   | -0.17 | 11  | -0.05 | 23   | 357  | 375  | 396              | 3.00 | 5.5 | 1.4  | 1   | 84 | 1.8  | 3.73  | 10.1 | 140 | AHLEM, WILLIAM JR             | CA   |
| 2.492 LOUIE JOAN 762                  | 117517446       | 3K |     | 213              | 1   | 67  | 854   | -0.07 | 25  | -0.05 | 23   | 371  | 374  | 375              | 2.87 | 4.5 | 0.6  | 1   | 79 | 1.3  | 4.08  | 6.1  | 140 | MOYE, NEIL                    | NC   |
| 2.493 VALSIGNA SPARKY 17873           | 117725515       | 3K |     | 17873            | 1   | 70  | 743   | 0.10  | 52  | -0.01 | 23   | 358  | 351  | 349              | 2.99 | 2.0 | -0.1 | 0   |    | 1.6  | 4.01  | 8.5  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.494 VALSIGNA SPARKY 17515           | 117611887       | 3K |     | 17515            | 1   | 71  | 739   | -0.06 | 23  | -0.03 | 23   | 371  | 362  | 355              | 2.91 | 4.2 | 0.4  | 1   | 78 | 1.5  | 3.56  | 9.3  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.495 DEBOER JEROEN F9646             | 118304571       | 8K | F   | 9646             | 1   | 69  | 679   | -0.03 | 27  | -0.01 | 23   | 343  | 331  | 324              | 2.98 | 2.8 | 0.7  | 0   |    | 1.9  | 5.02  | 10.1 | 140 | DEBOER, NICO                  | TX   |
| 2.496 ASPEN GROVE BRAVEHEART SHAWNA   | 067092318       | 3K |     | 318              | 2   | 69  | 574   | 0.03  | 33  | 0.02  | 23   | 410  | 381  | 359              | 2.95 | 3.9 | 1.1  | 2   | 84 | 1.2  | 3.82  | 7.1  | 140 | ELLENBURG, DYLAN              | TN   |
| 2.497 TJF/LEE RED HOT LISA 1015-P     | 067831015       | 8K | F   | 1015             | 1   | 69  | 452   | 0.12  | 44  | 0.04  | 23   | 452  | 391  | 326              | 2.62 | 2.8 | 0.1  | 1   | 84 | 1.1  | 2.93  | 7.0  | 140 | TAYLOR JERSEY FARM INC        | MS   |
| 2.498 YOSEMITE TREASURE RASMUS N21150 | 840003007148847 | 3K |     | 21150            | 2   | 71  | 721   | 0.02  | 37  | -0.02 | 22   | 383  | 371  | 358              | 2.86 | 2.9 | 0.0  | 2   | 87 | 2.1  | 4.98  | 7.6  | 140 | YOSEMITE JERSEY DAIRY         | CA   |
| 2.499 VALSIGNA SPARKY 18204           | 117728376       | 6K | F   | 18204            | 0   | 66  | 305   | 0.14  | 42  | 0.05  | 22   | 403  | 349  | 306              | 2.99 | 2.2 | 0.5  | 0   | 82 | 1.5  | 4.32  | 8.4  | 140 | WICKSTROM DAIRIES, LP         | CA   |
| 2.500 CAL-MART RENEGADE HONEY 3927-ET | 117514096       | 3K |     | 3927             | 1   | 69  | 43    | 0.29  | 56  | 0.11  | 22   | 511  | 420  | 338              | 2.88 | 3.8 | 0.5  | 1   | 79 | 1.5  | 2.22  | 7.0  | 140 | MARTIN DAIRY LLC              | OR   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #            | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      |      |      | TYPE |      |     |    |      |       | Owner | ST  |                            |      |
|--|------------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|----------------------------|------|
|  |                  |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                        | GJPI |
| 2.501 BW RENEGADE TWYLA U772             | 117265394        | 6K  | F   | 579   | 1   | 70  | 1     | 0.29  | 54  | 0.12  | 22   | 499  | 406  | 328  | 2.98 | 3.8  | 0.9  | 1   | 82 | 1.0  | 2.40  | 6.2   | 140 | BRENTWOOD FARMS            | CA   |
| 2.502 TOLLENAAR LOTTO 7348               | 840003008872423  | 3K  |     | 7348  | 0   | 62  | 371   | 0.24  | 60  | 0.04  | 21   | 498  | 456  | 422  | 2.97 | 4.6  | 1.9  | 0   |    | 0.6  | 0.42  | 7.7   | 140 | TOLLENAAR JERSEYS          | CA   |
| 2.503 BW LEGION JOLINE ET637-ET          | 116541381        | 3K  |     | 891   | 2   | 74  | 757   | -0.01 | 32  | -0.04 | 20   | 396  | 397  | 397  | 2.87 | 5.0  | 1.6  | 3   | 84 | 1.2  | 2.30  | 7.2   | 140 | BRENTWOOD FARMS            | CA   |
| 2.504 AHLEM IATOLA SUNSPRITE 19222       | 064552776        | 8K  | F   | 19222 | 5   | 78  | 226   | 0.08  | 28  | 0.05  | 18   | 431  | 380  | 337  | 2.95 | 4.2  | 1.4  | 2   | 85 | 1.5  | 4.56  | 11.2  | 140 | AHLEM, WILLIAM JR          | CA   |
| 2.505 CAL-MART ZUMA HAILEY 5239          | 067245239        | 6K  | F   | 5239  | 1   | 67  | -45   | 0.29  | 50  | 0.09  | 17   | 517  | 436  | 361  | 2.85 | 4.6  | 0.4  | 0   | 79 | 0.9  | 3.10  | 4.7   | 140 | MARTIN DAIRY LLC           | OR   |
| 2.506 CLOVER PATCH LEGAL FAIRY           | 117674613        | 8K  | C   | 2073  | 1   | 69  | 454   | -0.02 | 16  | -0.01 | 16   | 401  | 386  | 372  | 2.90 | 4.9  | 1.4  | 0   | 71 | 2.1  | 6.15  | 6.2   | 140 | KOZAK, ALAN                | OH   |
| 2.507 HILMAR ZUMA 34196                  | 067434196        | 6K  | F   | 34196 | 1   | 68  | 347   | 0.07  | 29  | 0.03  | 16   | 441  | 410  | 381  | 2.88 | 5.1  | 1.0  | 0   | 83 | 0.5  | 3.83  | 5.3   | 140 | AHLEM, CHARLES             | CA   |
| 2.508 SIL-MIST ACTION GRACE GRETCHEN     | 067081549        | 6K  | F   | 1549  | 5   | 77  | 372   | 0.06  | 29  | -0.01 | 12   | 425  | 411  | 394  | 2.83 | 4.7  | 1.2  | 2   | 92 | 1.2  | 5.17  | 8.7   | 140 | SILVER MIST FARM           | OR   |
| 2.509 CLOVER PATCH ALEX PERIWINKLE       | 117770793        | 8K  | F   | 2172  | 1   | 71  | 93    | 0.14  | 30  | 0.02  | 8    | 529  | 499  | 467  | 2.83 | 7.1  | 1.5  | 0   | 79 | 1.6  | 3.85  | 8.4   | 140 | KOZAK, ALAN                | OH   |
| 2.510 ALL LYNNS VAUGHN BUNNY             | 117483273        | 50K | F   | 100   | 1   | 69  | 1,077 | -0.08 | 33  | 0.04  | 45   | 343  | 292  | 263  | 3.11 | 1.7  | -0.2 | 2   | 80 | 0.1  | 0.24  | 6.4   | 139 | MIELKE, DON                | WI   |
| 2.511 DUPAT JEON 5559-ET                 | 067115559        | 50K | F   | 5559  | 3   | 78  | 1,190 | -0.05 | 46  | 0.00  | 43   | 358  | 322  | 299  | 2.97 | 1.7  | -0.1 | 2   | 77 | 0.9  | -0.79 | 8.9   | 139 | WICKSTROM JERSEY FARMS INC | CA   |
| 2.512 D&E ABE RHETTA 3305                | 067303305        | 6K  |     | 3305  | 2   | 70  | 1,282 | -0.11 | 39  | -0.02 | 42   | 319  | 297  | 284  | 2.95 | 1.4  | -1.3 | 2   | 82 | 0.6  | 0.72  | 6.3   | 139 | D & E JERSEYS              | TX   |
| 2.513 GR FARIA BROTHERS BELLRINGER 67491 | 840003007169609  | 6K  | F   | 67491 | 2   | 69  | 1,270 | 0.01  | 60  | -0.02 | 42   | 315  | 297  | 291  | 3.03 | 0.8  | -1.9 | 2   | 85 | 1.1  | 2.31  | 4.3   | 139 | FARIA DAIRY                | AZ   |
| 2.514 JER-Z-BOYZ MAGNIFICENT 28358       | 117496095        | 3K  |     | 28358 | 2   | 70  | 1,092 | 0.04  | 58  | 0.01  | 42   | 326  | 279  | 243  | 2.90 | -0.7 | -1.5 | 1   | 85 | 1.1  | 2.28  | 5.5   | 139 | JER-Z-BOYZ                 | CA   |
| 2.515 RED TOP PLUS 17525                 | 067517525        | 8K  | C   | 17525 | 0   | 66  | 1,083 | -0.02 | 46  | 0.03  | 42   | 324  | 285  | 265  | 3.10 | 0.6  | -1.0 | 0   | 78 | 1.3  | 1.98  | 7.3   | 139 | RED TOP JERSEYS            | CA   |
| 2.516 GR FARIA BROTHERS TBONE 36673      | 840003005899856  | 6K  | F   | 36673 | 2   | 73  | 1,022 | 0.03  | 53  | 0.03  | 42   | 336  | 288  | 255  | 3.02 | 0.2  | -0.3 | 1   | 76 | 0.8  | 0.72  | 7.9   | 139 | FARIA DAIRY                | AZ   |
| 2.517 PR JER-Z-BOYZ GANNON 30846         | 117958816        | 3K  |     | 30846 | 2   | 65  | 1,421 | -0.07 | 54  | -0.05 | 41   | 264  | 270  | 289  | 3.09 | 0.9  | -0.7 | 2   | 84 | 0.9  | 1.47  | 3.2   | 139 | JER-Z-BOYZ                 | CA   |
| 2.518 PR HILMAR CELEBRITY 21099          | 067621099        | 3K  |     | 21099 | 4   | 69  | 1,189 | -0.10 | 38  | 0.00  | 41   | 306  | 281  | 269  | 3.03 | 0.8  | 0.4  | 2   | 77 | 0.6  | 1.10  | 5.7   | 139 | AHLEM, CHARLES             | CA   |
| 2.519 AHLEM JACINTO LORI 34534           | 069041740        | 8K  | F   | 34534 | 2   | 73  | 1,099 | 0.02  | 54  | 0.01  | 40   | 341  | 318  | 315  | 3.20 | 1.3  | -1.2 | 2   | 81 | 1.5  | 2.12  | 8.0   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.520 GR HILMAR TBONE 21290              | 067621290        | 6K  |     | 21290 | 3   | 75  | 955   | 0.03  | 49  | 0.03  | 40   | 370  | 319  | 282  | 2.98 | 1.6  | -1.2 | 2   | 84 | 0.8  | 0.79  | 7.1   | 139 | AHLEM, CHARLES             | CA   |
| 2.521 GR GOFF VICTORIA DALE 1-ET         | 067209139        | 3K  |     | 9139  | 1   | 70  | 1,627 | -0.17 | 40  | -0.10 | 39   | 267  | 306  | 350  | 3.05 | 3.0  | -0.9 | 1   | 84 | 0.6  | 2.47  | 5.4   | 139 | GOFF DAIRY                 | NM   |
| 2.522 HILMAR MCGRAW 29789                | 067329789        | 3K  |     | 29789 | 1   | 68  | 1,174 | -0.02 | 50  | -0.02 | 39   | 373  | 356  | 350  | 3.01 | 2.2  | -0.2 | 1   | 80 | 0.5  | -0.59 | 6.6   | 139 | AHLEM, CHARLES             | CA   |
| 2.523 GR DUPAT CARL 8196                 | 067348196        | 6K  |     | 8196  | 1   | 68  | 1,596 | -0.20 | 33  | -0.10 | 38   | 282  | 317  | 358  | 3.02 | 3.2  | 0.2  | 1   | 75 | 1.0  | 1.02  | 4.9   | 139 | WICKSTROM JERSEY FARMS INC | CA   |
| 2.524 DUTCH HOLLOW VALENTINO BRIGITLEE   | 067184478        | 8K  | C   | 4478  | 1   | 71  | 1,133 | -0.04 | 44  | -0.01 | 38   | 352  | 327  | 311  | 2.94 | 2.2  | -1.0 | 0   | 77 | 1.5  | 1.55  | 7.7   | 139 | CHITTENDEN, MELANIE F      | NY   |
| 2.525 TUF VALENTINO NIONA 997            | 067051998        | 8K  | C   | 998   | 1   | 70  | 1,025 | -0.10 | 28  | 0.01  | 38   | 317  | 281  | 255  | 2.95 | 1.6  | -1.0 | 1   | 77 | 1.4  | 3.53  | 8.0   | 139 | TAYLOR JERSEY FARM INC     | MS   |
| 2.526 WOODSTOCK CHAMP PL LENA            | 117639311        | 8K  | C   | 1303  | 1   | 72  | 996   | -0.04 | 38  | 0.01  | 38   | 325  | 288  | 265  | 3.01 | 1.2  | -0.9 | 0   | 79 | 1.5  | 3.07  | 9.1   | 139 | WOODSTOCK DAIRY            | OR   |
| 2.527 GR GABYS GANNON BRIANNA-ET         | 117222973        | 8K  | F   | 1800  | 0   | 67  | 1,363 | -0.08 | 48  | -0.06 | 37   | 278  | 294  | 317  | 3.04 | 1.4  | -0.2 | 0   | 83 | 0.9  | 1.49  | 7.3   | 139 | WEST WIND FARMS            | TN   |
| 2.528 JER BEL HEADLINE AMEN              | 117389980        | 50K | F   | 780   | 1   | 72  | 1,265 | -0.07 | 41  | -0.03 | 37   | 357  | 356  | 364  | 3.01 | 3.4  | -0.1 | 1   | 87 | 1.4  | 0.92  | 7.0   | 139 | KING HOWARD & FAMILY       | OH   |
| 2.529 WESTWICK ABE 19004                 | 115046342        | 6K  | F   | 9004  | 5   | 74  | 1,041 | 0.03  | 54  | -0.01 | 36   | 407  | 379  | 358  | 2.89 | 3.0  | -0.3 | 2   | 80 | 0.1  | -1.25 | 5.3   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.530 GOLDEN DREAM ACE ALABAMA           | 117065257        | 3K  |     | 910   | 2   | 71  | 1,029 | -0.03 | 43  | 0.00  | 36   | 288  | 262  | 249  | 3.02 | 0.3  | -1.0 | 2   | 85 | 1.8  | 3.80  | 8.1   | 139 | CLINE NATHAN & ABBY        | IA   |
| 2.531 D&E MERCHANT VIRTUE 22228-ET       | 067422228        | 3K  |     | 22228 | 1   | 69  | 917   | 0.07  | 55  | 0.01  | 36   | 337  | 304  | 285  | 3.07 | 1.5  | -1.5 | 1   | 81 | 1.4  | 2.89  | 7.8   | 139 | D & E JERSEYS              | TX   |
| 2.532 VALSIGNA MERCHANT 17591            | 117612598        | 3K  |     | 17591 | 1   | 70  | 898   | 0.11  | 61  | 0.02  | 36   | 370  | 326  | 293  | 2.94 | 1.3  | -1.6 | 1   | 75 | 0.8  | 2.32  | 7.8   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.533 VALSIGNA ABE CHUCK 18350           | 117729621        | 6K  | F   | 18350 | 0   | 62  | 852   | 0.03  | 45  | 0.03  | 36   | 413  | 366  | 329  | 2.94 | 2.9  | -0.6 | 0   | 76 | 0.4  | -0.53 | 6.6   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.534 ALL LYNNS VIBRANT WHOLESOME-ET     | 117222692        | 3K  |     | 1367  | 1   | 67  | 1,161 | -0.13 | 28  | -0.03 | 34   | 327  | 331  | 343  | 3.04 | 3.7  | -0.5 | 1   | 78 | 0.4  | 1.63  | 5.9   | 139 | TATE, JONAS                | CA   |
| 2.535 JER-Z-BOYZ MAXIMUM 22843           | 117157617        | 3K  |     | 22843 | 4   | 73  | 893   | 0.13  | 67  | 0.01  | 34   | 392  | 366  | 355  | 3.10 | 2.2  | 0.1  | 0   | 93 | 0.3  | 0.22  | 4.8   | 139 | JER-Z-BOYZ                 | CA   |
| 2.536 MILLS MAXIMUM PONCH                | 116378680        | 8K  | C   | 6588  | 4   | 73  | 475   | 0.16  | 54  | 0.09  | 34   | 407  | 327  | 267  | 3.05 | 1.6  | 0.0  | 2   | 90 | 1.1  | 1.87  | 6.4   | 139 | MILLS JERSEY FARM LLC      | NV   |
| 2.537 HEARTLAND VIBRANT TORY-ET          | 067232258        | 3K  |     | 2258  | 1   | 69  | 1,197 | -0.08 | 39  | -0.05 | 33   | 354  | 356  | 360  | 2.89 | 2.8  | -0.1 | 1   | 77 | -0.1 | 0.14  | 6.9   | 139 | HEARTLAND JERSEYS          | KS   |
| 2.538 PETERSON Q IMPULS LEBBA 2123       | 8400030043114507 | 8K  | F   | 2123  | 2   | 72  | 1,177 | -0.10 | 36  | -0.05 | 33   | 366  | 369  | 377  | 2.97 | 3.7  | 0.5  | 2   | 83 | 0.4  | 0.51  | 5.2   | 139 | VANEXEL HANK & CAROLYN     | CA   |
| 2.539 DUTCH HOLLOW ACE GRACIE            | 116387006        | 8K  | C   | 3713  | 3   | 76  | 1,074 | -0.01 | 46  | -0.03 | 33   | 303  | 302  | 310  | 3.06 | 1.6  | -0.4 | 2   | 90 | 0.9  | 2.97  | 8.5   | 139 | CHITTENDEN, CASSANDRA L    | NY   |
| 2.540 BUTTERCREST LEGAL SAGE             | 117429231        | 3K  |     | 479   | 1   | 68  | 1,069 | -0.04 | 40  | -0.03 | 33   | 294  | 284  | 281  | 2.95 | 1.3  | 0.2  | 1   | 82 | 1.4  | 3.29  | 5.8   | 139 | COOPERRIDER & SONS         | OH   |
| 2.541 WY-ROB JEON RED 21399              | 067521399        | 3K  |     | 21399 | 2   | 71  | 985   | 0.04  | 53  | -0.01 | 33   | 406  | 378  | 352  | 2.80 | 2.6  | -0.2 | 3   | 83 | 0.8  | 0.12  | 7.0   | 139 | TAYLOR, WYATT ROBERT       | CA   |
| 2.542 DUTCH HOLLOW ELROY MICROWAVE       | 115833616        | 3K  |     | 3503  | 4   | 73  | 807   | 0.14  | 63  | 0.02  | 33   | 365  | 332  | 313  | 3.07 | 1.0  | 0.7  | 2   | 90 | 1.5  | 1.81  | 6.8   | 139 | CHITTENDEN, MELANIE F      | NY   |
| 2.543 DUTCH HOLLOW VALENTINO CHEER       | 067184413        | 3K  |     | 4413  | 1   | 70  | 784   | 0.01  | 38  | 0.03  | 33   | 363  | 323  | 297  | 3.03 | 2.8  | -0.4 | 1   | 82 | 1.8  | 3.35  | 8.3   | 139 | CHITTENDEN, PAUL C         | NY   |
| 2.544 CLOVER PATCH IMPULS DIVINEE        | 117771347        | 8K  | F   | 2232  | 1   | 63  | 698   | 0.06  | 44  | 0.04  | 33   | 428  | 379  | 344  | 3.04 | 3.5  | 0.4  | 0   | 75 | 0.2  | 0.15  | 4.2   | 139 | KOZAK, ALAN                | OH   |
| 2.545 BILTMORE LOUIE LEONA 2146          | 115209859        | 3K  |     | 2146  | 4   | 73  | 1,429 | -0.06 | 53  | -0.10 | 32   | 380  | 414  | 443  | 2.85 | 3.9  | -0.1 | 2   | 84 | 0.0  | -0.60 | 7.4   | 139 | BILTMORE FARMS             | NC   |
| 2.546 CLOVER PATCH ALEX TONI             | 117770832        | 8K  | F   | 2177  | 1   | 71  | 1,172 | -0.06 | 44  | -0.06 | 32   | 357  | 363  | 372  | 2.93 | 2.6  | 0.6  | 0   | 77 | 0.7  | 0.78  | 6.9   | 139 | KOZAK, ALAN                | OH   |
| 2.547 BOYD-LEE MATINEE HABANERO-ET       | 115582976        | 50K | C   | 292   | 3   | 74  | 1,045 | 0.10  | 68  | -0.03 | 32   | 376  | 375  | 384  | 3.07 | 2.2  | 0.7  | 3   | 90 | 0.5  | -0.36 | 5.1   | 139 | ALLEN, DAVID               | WI   |
| 2.548 HILMAR APPLEJACK 24965             | 067324965        | 6K  | F   | 24965 | 2   | 72  | 742   | 0.04  | 42  | 0.03  | 32   | 378  | 335  | 305  | 3.01 | 1.8  | 0.1  | 2   | 85 | 1.3  | 2.17  | 5.8   | 139 | AHLEM, CHARLES             | CA   |
| 2.549 SCHULTZ MATINEE RAYNAY-ET          | 067228158        | 3K  |     | 8158  | 3   | 75  | 1,110 | 0.03  | 58  | -0.05 | 31   | 412  | 409  | 407  | 2.86 | 2.3  | 1.2  | 2   | 85 | 0.4  | -0.56 | 6.1   | 139 | HUFFARD DAIRY FARMS        | VA   |
| 2.550 VAN DE HEADLINE ZELENA ZENA-ET     | 067351277        | 3K  |     | 1277  | 1   | 70  | 1,134 | -0.15 | 23  | -0.06 | 30   | 325  | 342  | 368  | 3.07 | 3.9  | 1.0  | 1   | 83 | 1.5  | 2.70  | 7.1   | 139 | VAN DE JERSEYS             | PA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                  | Reg #           | GT  | JH1 | GPTA  |     |     |       |       |     |       |      |      |      | TYPE |      |      |      |     |    |      |       | Owner | ST  |                            |      |
|---------------------------------------|-----------------|-----|-----|-------|-----|-----|-------|-------|-----|-------|------|------|------|------|------|------|------|-----|----|------|-------|-------|-----|----------------------------|------|
|                                       |                 |     |     | CCN   | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL   | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                        | GJPI |
| 2.551 AHLEM HEADLINE PRUDENCE 37528   | 070049002       | 3K  |     | 37528 | 1   | 69  | 1,021 | -0.16 | 15  | -0.03 | 30   | 351  | 351  | 358  | 3.00 | 4.6  | 0.3  | 0   | 79 | 1.5  | 2.75  | 9.7   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.552 GR FARIA BROTHERS MATINEE 19322 | 840003001577267 | 6K  | F   | 19322 | 3   | 69  | 903   | 0.08  | 56  | -0.01 | 30   | 384  | 367  | 359  | 2.99 | 2.1  | 0.7  | 0   |    | 0.9  | 1.77  | 3.4   | 139 | FARIA DAIRY                | AZ   |
| 2.553 CDF ABE ARTIST H0655            | 840003001527108 | 3K  |     | 20655 | 4   | 73  | 889   | -0.11 | 19  | -0.01 | 30   | 360  | 348  | 347  | 3.06 | 4.6  | 0.1  | 2   | 79 | 0.6  | 1.73  | 6.5   | 139 | C & S LIVESTOCK            | CA   |
| 2.554 WICKS KAMOO 3062                | 067153062       | 3K  |     | 3062  | 4   | 72  | 808   | 0.02  | 41  | 0.01  | 30   | 381  | 353  | 334  | 2.99 | 3.0  | 0.3  | 2   | 82 | 0.3  | 1.64  | 5.7   | 139 | WICKSTROM BROS             | CA   |
| 2.555 CLOVER PATCH IMPULS RENE        | 117771413       | 8K  | F   | 2240  | 0   | 62  | 706   | 0.01  | 34  | 0.02  | 30   | 439  | 390  | 343  | 2.77 | 3.5  | 0.7  | 0   | 77 | 0.3  | 0.47  | 5.4   | 139 | KOZAK, ALAN                | OH   |
| 2.556 BW RENEGADE KRYNA U800          | 117265134       | 6K  | C   | 21    | 1   | 72  | 581   | 0.12  | 50  | 0.05  | 30   | 431  | 375  | 333  | 3.00 | 3.0  | 0.0  | 1   | 79 | 1.5  | 1.19  | 7.1   | 139 | BRENTWOOD FARMS            | CA   |
| 2.557 WICKS BRAZO 2911                | 067082911       | 3K  |     | 12911 | 4   | 76  | 1,280 | -0.16 | 27  | -0.09 | 29   | 353  | 384  | 414  | 2.92 | 4.5  | -0.2 | 2   | 85 | 1.0  | 1.68  | 9.8   | 139 | WICKSTROM JERSEY FARMS INC | CA   |
| 2.558 AHLEM HEADLINE MANDY 37886      | 070049360       | 8K  | F   | 37886 | 0   | 66  | 1,220 | -0.16 | 25  | -0.07 | 29   | 297  | 324  | 353  | 2.99 | 3.5  | -0.3 | 0   | 80 | 1.7  | 4.14  | 8.2   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.559 SCOTCH VIEW HEADLINE FLOSS      | 067301704       | 3K  |     | 1704  | 1   | 70  | 950   | -0.15 | 14  | -0.03 | 29   | 369  | 362  | 361  | 2.98 | 4.8  | 1.2  | 1   | 85 | 1.3  | 2.09  | 8.1   | 139 | SCOTCH VIEW FARMS          | NY   |
| 2.560 AHLEM LEGAL MAYDAY 36126        | 070047600       | 3K  |     | 36126 | 1   | 69  | 901   | -0.14 | 16  | -0.02 | 29   | 293  | 285  | 287  | 3.05 | 3.1  | -0.3 | 1   | 83 | 2.1  | 6.44  | 8.3   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.561 GR HIGH LAWN J GANNON LAUGH     | 117251768       | 8K  | F   | 11489 | 1   | 71  | 1,307 | -0.12 | 36  | -0.09 | 28   | 333  | 365  | 391  | 2.80 | 4.0  | 0.1  | 1   | 84 | 0.8  | 2.47  | 5.7   | 139 | SNOW WESLEY & BRENDA       | VT   |
| 2.562 DUTCH HOLLOW LEGAL MEADOW-P     | 067184256       | 8K  | C   | 4256  | 2   | 72  | 961   | -0.13 | 19  | -0.03 | 28   | 391  | 375  | 355  | 2.72 | 4.1  | 0.4  | 1   | 87 | 1.3  | 2.99  | 6.4   | 139 | CHITTENDEN, MELANIE F      | NY   |
| 2.563 SHAN-MAR LEGAL NICOLE           | 067128512       | 3K  |     | 512   | 1   | 67  | 919   | -0.06 | 32  | -0.02 | 28   | 390  | 375  | 360  | 2.82 | 3.9  | 0.6  | 1   | 78 | 0.8  | 2.02  | 6.6   | 139 | GARDNER MARK & SHANNON     | PA   |
| 2.564 GR VALSIGNA KARBALA 16260       | 117330418       | 3K  |     | 16260 | 1   | 69  | 880   | 0.10  | 60  | -0.02 | 28   | 363  | 351  | 346  | 2.98 | 2.3  | 0.2  | 1   | 77 | 1.1  | 2.51  | 6.8   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.565 BARHAMS VALENTINO BEYONCE-ET    | 117372173       | 3K  |     | 740   | 1   | 71  | 784   | 0.08  | 50  | 0.00  | 28   | 362  | 335  | 311  | 2.86 | 1.7  | -0.4 | 1   | 76 | 1.6  | 3.38  | 8.5   | 139 | BARHAM, RICHARD L          | TN   |
| 2.566 AHLEM LEGAL MAGGEE 35334        | 069042540       | 8K  | F   | 35334 | 2   | 72  | 784   | -0.01 | 33  | -0.01 | 28   | 380  | 355  | 337  | 2.93 | 3.3  | 0.9  | 1   | 81 | 1.2  | 2.48  | 7.7   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.567 TOLLENAAR RENEGADE 7315         | 840003008872390 | 3K  |     | 7315  | 0   | 59  | 751   | 0.13  | 58  | 0.00  | 28   | 435  | 399  | 366  | 2.82 | 2.9  | 0.5  | 0   |    | 0.8  | 0.75  | 5.1   | 139 | TOLLENAAR JERSEYS          | CA   |
| 2.568 TENN LEGAL HGG MAID             | 117375934       | 3K  |     | 30877 | 1   | 69  | 691   | 0.03  | 37  | 0.02  | 28   | 376  | 343  | 320  | 2.99 | 2.7  | 0.7  | 1   | 86 | 1.2  | 3.63  | 6.9   | 139 | RECTOR JERSEY FARM         | CA   |
| 2.569 GABYS TBONE CHIME               | 116842950       | 8K  | F   | 1748  | 2   | 74  | 677   | 0.11  | 52  | 0.02  | 28   | 374  | 343  | 324  | 3.04 | 2.7  | -0.1 | 2   | 90 | 1.3  | 3.09  | 10.5  | 139 | GABY JERSEY FARM           | TN   |
| 2.570 BW RENEGADE LOUISE U963         | 117353255       | 50K | C   | 1150  | 1   | 71  | 225   | 0.25  | 57  | 0.10  | 28   | 430  | 345  | 277  | 3.02 | 1.5  | 0.9  | 1   | 83 | 1.6  | 2.48  | 7.0   | 139 | BRENTWOOD FARMS            | CA   |
| 2.571 DUTCH HOLLOW LEGAL MALUNA-P     | 067184477       | 8K  | C   | 4477  | 1   | 68  | 813   | -0.07 | 24  | -0.01 | 27   | 387  | 367  | 351  | 2.89 | 4.6  | 0.6  | 1   | 79 | 1.1  | 2.75  | 5.4   | 139 | CHITTENDEN, MELANIE F      | NY   |
| 2.572 LUCKY HILL ALEXANDER LENORA     | 117219553       | 3K  |     | 802   | 1   | 70  | 843   | 0.05  | 49  | -0.03 | 26   | 407  | 399  | 396  | 2.96 | 3.4  | 0.7  | 1   | 80 | 0.8  | 1.95  | 7.7   | 139 | LUCKY HILL FARM            | VT   |
| 2.573 K&K ACE COURTNEY 2682           | 067132682       | 3K  |     | 2682  | 3   | 73  | 836   | 0.03  | 45  | -0.02 | 26   | 348  | 341  | 342  | 3.01 | 2.4  | -0.3 | 2   | 83 | 1.5  | 3.79  | 7.8   | 139 | WAKKER DAIRY               | WI   |
| 2.574 J-TIMS TABITHA OF DOUBLE J      | 117113259       | 3K  |     | 20421 | 1   | 66  | 552   | 0.27  | 74  | 0.03  | 26   | 453  | 412  | 381  | 2.98 | 1.9  | 0.8  | 1   | 82 | 0.3  | 0.33  | 3.9   | 139 | JOHNSON, ROBERT I          | CO   |
| 2.575 POLY IATOLA JEAN                | 067085376       | 50K | F   | 376   | 2   | 76  | 471   | 0.11  | 42  | 0.05  | 26   | 363  | 307  | 256  | 2.85 | 1.2  | 0.0  | 2   | 85 | 1.7  | 5.04  | 9.7   | 139 | CAL POLY CORPORATION       | CA   |
| 2.576 HIGHLAND PLUS A DELORES         | 067222817       | 6K  | F   | 2817  | 1   | 71  | 953   | -0.09 | 28  | -0.05 | 25   | 291  | 306  | 326  | 3.03 | 2.3  | 1.0  | 0   | 81 | 1.9  | 5.23  | 8.3   | 139 | HIGHLAND FARMS             | ME   |
| 2.577 SUMMETZ JADE SAVANNAH SHANTA-ET | 067134090       | 50K | F   | 4090  | 4   | 76  | 314   | 0.11  | 35  | 0.07  | 24   | 467  | 401  | 343  | 2.90 | 4.0  | 1.4  | 2   | 82 | 1.3  | 2.74  | 7.5   | 139 | SUMMIT FARM INC            | IA   |
| 2.578 AHLEM ACTION WENDY 34749        | 069041955       | 8K  | F   | 34749 | 2   | 74  | 1,100 | -0.15 | 25  | -0.08 | 23   | 267  | 308  | 351  | 3.07 | 3.2  | 0.2  | 2   | 80 | 1.5  | 5.42  | 10.0  | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.579 FOREST GLEN PLUS JILL           | 067354158       | 8K  | F   | 4158  | 1   | 70  | 776   | -0.02 | 33  | -0.02 | 23   | 393  | 381  | 365  | 2.77 | 3.1  | 0.7  | 0   | 81 | 1.1  | 3.61  | 6.5   | 139 | FOREST GLEN JERSEYS        | OR   |
| 2.580 AHLEM PRIMO CORA 37034-ET       | 070048508       | 3K  |     | 37034 | 1   | 70  | 649   | -0.09 | 12  | 0.00  | 23   | 386  | 363  | 344  | 2.89 | 4.8  | 0.3  | 1   | 85 | 1.7  | 4.34  | 10.7  | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.581 AHLEM ON TIME ROSETTA 35387     | 069042593       | 3K  |     | 35387 | 2   | 70  | 333   | 0.04  | 23  | 0.05  | 22   | 395  | 343  | 299  | 2.95 | 3.3  | 0.6  | 1   | 87 | 1.8  | 5.45  | 7.5   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.582 AHLEM ALLSTAR ZABRINA 36349-ET  | 070047823       | 8K  | F   | 36349 | 1   | 72  | 298   | 0.33  | 74  | 0.06  | 22   | 436  | 378  | 326  | 2.90 | 1.8  | -0.4 | 1   | 85 | 1.6  | 4.24  | 7.8   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.583 AHLEM LEGAL LILAC 37336         | 070048810       | 8K  | C   | 37336 | 1   | 69  | 509   | 0.02  | 25  | 0.03  | 21   | 394  | 359  | 325  | 2.84 | 3.5  | 0.6  | 0   | 86 | 1.9  | 5.48  | 6.7   | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.584 FOREST GLEN ALEXANDERS FLOWER   | 067323426       | 3K  |     | 3426  | 1   | 68  | 198   | 0.21  | 51  | 0.07  | 21   | 471  | 406  | 349  | 2.92 | 3.7  | 1.0  | 1   | 78 | 0.8  | 2.62  | 7.1   | 139 | BANSEN STANLEY K & DORA H  | OR   |
| 2.585 AHLEM HEADLINE PRINCESS 37575   | 070049049       | 8K  | F   | 37575 | 1   | 73  | 856   | -0.12 | 16  | -0.06 | 20   | 360  | 372  | 381  | 2.84 | 4.9  | 0.3  | 0   |    | 1.8  | 4.76  | 10.0  | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.586 BW SUREFIRE AYSHA ET709-ET      | 117001608       | 3K  |     | 1781  | 2   | 72  | 881   | -0.14 | 14  | -0.07 | 19   | 305  | 335  | 365  | 3.01 | 4.2  | 2.8  | 3   | 82 | 1.4  | 4.54  | 5.3   | 139 | BRENTWOOD FARMS            | CA   |
| 2.587 VALSIGNA SPARKY 17638           | 117613067       | 3K  |     | 17638 | 1   | 70  | 310   | 0.10  | 33  | 0.05  | 19   | 388  | 343  | 302  | 2.91 | 3.2  | 0.0  | 0   |    | 1.5  | 5.55  | 8.9   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.588 AHLEM ACTION SOUVENIR 35653     | 069042859       | 8K  | C   | 35653 | 1   | 73  | 460   | 0.07  | 34  | 0.01  | 18   | 366  | 345  | 330  | 2.96 | 3.4  | 0.6  | 1   | 90 | 2.2  | 5.78  | 10.1  | 139 | AHLEM, WILLIAM JR          | CA   |
| 2.589 VALSIGNA CELEBRITY 17046        | 117581805       | 3K  |     | 17046 | 1   | 70  | 372   | 0.17  | 49  | 0.01  | 17   | 451  | 419  | 386  | 2.84 | 4.1  | 0.5  | 0   |    | 1.4  | 3.31  | 8.8   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.590 PHILS KARBALA SHEK 6685         | 117721566       | 3K  |     | 6685  | 1   | 69  | 353   | 0.13  | 41  | 0.01  | 15   | 396  | 373  | 352  | 2.91 | 3.4  | 0.4  | 0   | 77 | 1.9  | 6.06  | 8.6   | 139 | FANELLI, PHIL V            | CA   |
| 2.591 CAL-MART ZUMA CAM 5252          | 067245252       | 6K  | F   | 5252  | 1   | 66  | 154   | 0.14  | 32  | 0.05  | 15   | 527  | 470  | 410  | 2.72 | 5.6  | 1.8  | 0   | 80 | 0.4  | 1.28  | 4.8   | 139 | MARTIN DAIRY LLC           | OR   |
| 2.592 VALSIGNA ACADEMY 17771          | 117724514       | 3K  |     | 17771 | 1   | 70  | 544   | 0.06  | 36  | -0.03 | 13   | 419  | 420  | 415  | 2.81 | 5.8  | 0.5  | 0   | 79 | 1.8  | 5.61  | 8.1   | 139 | WICKSTROM DAIRIES, LP      | CA   |
| 2.593 FOREST GLEN VITOS MARTY         | 067323563       | 3K  |     | 3563  | 2   | 72  | 1,967 | -0.27 | 36  | -0.06 | 59   | 185  | 189  | 216  | 3.23 | -0.7 | -1.6 | 1   | 74 | 0.8  | -0.36 | 8.0   | 138 | FOREST GLEN JERSEYS        | OR   |
| 2.594 JVB RED HOT RESTORE JACINDA     | 840003004481488 | 3K  |     | 1488  | 2   | 68  | 1,773 | -0.29 | 24  | -0.07 | 49   | 263  | 268  | 278  | 2.90 | 0.8  | -0.3 | 2   | 83 | 0.3  | -0.69 | 7.7   | 138 | VANBUSKIRK JIM & JANET     | MI   |
| 2.595 CHASIN RAINBOWS VITO FROSTY     | 067093549       | 3K  |     | 549   | 1   | 70  | 1,395 | -0.10 | 42  | -0.02 | 45   | 346  | 321  | 302  | 2.87 | 1.8  | -1.7 | 0   | 81 | 0.7  | 0.01  | 7.9   | 138 | TOHL, PATTI                | OR   |
| 2.596 JARS OF CLAY STONE BELLA        | 067333136       | 8K  | F   | 3136  | 2   | 72  | 1,217 | -0.02 | 52  | 0.01  | 44   | 286  | 258  | 252  | 3.17 | 0.6  | -0.5 | 1   | 82 | 1.0  | 1.16  | 7.1   | 138 | RANCHO TERESITA DAIRY      | CA   |
| 2.597 TOLLENAAR VITO 6642             | 840003007398720 | 8K  | F   | 6642  | 0   | 68  | 1,490 | -0.09 | 47  | -0.05 | 43   | 290  | 287  | 290  | 2.92 | 0.2  | -1.2 | 1   | 76 | 0.8  | 0.96  | 8.7   | 138 | TOLLENAAR JERSEYS          | CA   |
| 2.598 GR CDF ABE ODA RIX H0719        | 840003001527172 | 3K  |     | 20719 | 4   | 71  | 1,220 | -0.01 | 55  | 0.00  | 43   | 357  | 322  | 297  | 2.91 | 1.2  | -1.0 | 2   | 75 | 0.6  | -0.56 | 5.3   | 138 | C & S LIVESTOCK            | CA   |
| 2.599 DP LOVEABULL WILDFLOWER 860     | 067096860       | 3K  |     | 860   | 1   | 71  | 1,535 | 0.01  | 72  | -0.08 | 41   | 361  | 366  | 373  | 2.83 | 0.9  | -1.3 | 1   | 78 | 0.7  | -1.07 | 9.4   | 138 | DESERT PARK JERSEYS        | OR   |
| 2.600 GABYS RESTORE DOLLIE-ET         | 116032867       | 3K  |     | 1526  | 2   | 73  | 1,616 | -0.28 | 19  | -0.10 | 39   | 264  | 301  | 345  | 3.06 | 3.2  | -0.4 | 0   |    | 1.0  | 1.21  | 8.6   | 138 | GRANT DOUG & CATHY         | KY   |

# November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                    | Reg #           | GT  | JH1 | ----- GPTA ----- |     |     |       |       |     |       |      |      |      | ----- TYPE ----- |      |     |      |     |    |      | Owner | ST   |     |                                 |      |
|---|-----------------|-----|-----|------------------|-----|-----|-------|-------|-----|-------|------|------|------|------------------|------|-----|------|-----|----|------|-------|------|-----|---------------------------------|------|
|   |                 |     |     | CCN              | Rec | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$             | SCS  | PL  | DPR  | Rec | FS | PTAT |       |      | JUI | GFI                             | GJPI |
| 2.601 HEARTLAND ABE DALE-ET             | 067191736       | 3K  |     | 1736             | 3   | 71  | 1,205 | -0.02 | 52  | -0.02 | 39   | 360  | 348  | 350              | 3.07 | 2.4 | -0.1 | 3   | 85 | 0.2  | -0.43 | 5.7  | 138 | MARTINEZ, JARRET                | KY   |
| 2.602 JER-Z-BOYZ BOLD 36725             | 117683226       | 8K  | C   | 36725            | 1   | 70  | 903   | 0.07  | 55  | 0.04  | 39   | 330  | 292  | 280              | 3.29 | 1.2 | -0.1 | 0   | 79 | 0.8  | 1.24  | 7.4  | 138 | JER-Z-BOYZ                      | CA   |
| 2.603 TLJ KAYLANS LOUIE KYLEA           | 067139187       | 8K  | F   | 360              | 1   | 67  | 1,453 | -0.14 | 42  | -0.07 | 38   | 308  | 319  | 332              | 2.87 | 1.7 | 0.0  | 1   | 80 | 0.9  | 0.85  | 5.7  | 138 | LEHNERTZ, TRAVIS                | MN   |
| 2.604 CLOVER PATCH RAY PRIORITY         | 116200143       | 8K  | C   | 1403             | 3   | 75  | 1,228 | -0.16 | 25  | -0.03 | 38   | 279  | 263  | 253              | 2.90 | 0.5 | 0.4  | 2   | 78 | 1.4  | 2.30  | 8.8  | 138 | KOZAK, ALAN                     | OH   |
| 2.605 WICKS VIBRANT 4233                | 067304233       | 3K  |     | 4233             | 1   | 67  | 1,219 | -0.13 | 33  | -0.03 | 38   | 387  | 363  | 339              | 2.75 | 3.2 | -0.7 | 0   | 79 | -0.3 | -0.79 | 5.7  | 138 | WICKSTROM BROS                  | CA   |
| 2.606 D&E ABE PEGGY 21605               | 067421605       | 3K  |     | 21605            | 2   | 70  | 1,046 | 0.03  | 53  | 0.01  | 38   | 376  | 343  | 319              | 2.93 | 1.9 | -0.5 | 2   | 87 | 0.5  | -0.01 | 5.9  | 138 | D & E JERSEYS                   | TX   |
| 2.607 HILMAR 22369                      | 067622369       | 6K  | C   | 22369            | 3   | 76  | 883   | 0.04  | 47  | 0.03  | 38   | 330  | 284  | 254              | 3.06 | 1.0 | -0.7 | 2   | 85 | 1.3  | 2.48  | 8.7  | 138 | AHLEM, CHARLES                  | CA   |
| 2.608 GR FARIA BROTHERS MATINEE 19206   | 840003001577151 | 3K  |     | 19206            | 4   | 68  | 1,332 | 0.06  | 72  | -0.06 | 37   | 375  | 387  | 409              | 3.09 | 1.5 | 1.0  | 0   | 81 | 0.1  | -2.04 | 3.0  | 138 | FARIA DAIRY                     | AZ   |
| 2.609 MILLS THOR BETSY                  | 117121900       | 8K  | F   | 6837             | 2   | 67  | 1,064 | 0.08  | 63  | -0.01 | 37   | 424  | 393  | 368              | 2.89 | 1.9 | 0.2  | 2   | 77 | 0.1  | -2.19 | 4.8  | 138 | MILLS JERSEY FARM LLC           | NV   |
| 2.610 CAL-MART ECLIPES CLOTIL 5267-P-ET | 067245267       | 6K  | F   | 5267             | 1   | 69  | 893   | -0.02 | 38  | 0.02  | 37   | 289  | 251  | 230              | 3.11 | 1.6 | -1.0 | 0   | 67 | 1.5  | 4.37  | 5.4  | 138 | MARTIN DAIRY LLC                | OR   |
| 2.611 HARMONY VALLEY LOUIE DUSTY 7232   | 069401944       | 3K  |     | 7232             | 1   | 68  | 1,196 | 0.03  | 60  | -0.03 | 36   | 395  | 389  | 393              | 3.00 | 3.3 | 0.1  | 1   | 78 | 0.4  | -0.82 | 5.2  | 138 | TAUCHEN, ABBY                   | WI   |
| 2.612 HEARTLAND IMPULS TRINITY          | 067262359       | 8K  | F   | 2359             | 1   | 67  | 914   | -0.05 | 33  | 0.02  | 36   | 352  | 319  | 301              | 3.09 | 2.5 | 0.3  | 1   | 82 | 1.0  | 1.91  | 5.0  | 138 | MEIER, TONY                     | KS   |
| 2.613 HIGHLAND AHLEM D REFUGEE          | 067222808       | 8K  | C   | 2808             | 0   | 66  | 830   | 0.08  | 55  | 0.03  | 36   | 387  | 340  | 307              | 3.01 | 1.9 | -0.5 | 0   | 81 | 0.6  | 0.90  | 8.2  | 138 | HIGHLAND FARMS                  | ME   |
| 2.614 SUN VALLEY CHAMP PANDA            | 117379974       | 3K  |     | 2620             | 2   | 71  | 827   | 0.12  | 61  | 0.03  | 35   | 351  | 314  | 298              | 3.18 | 1.1 | -0.4 | 1   | 84 | 1.3  | 1.77  | 9.1  | 138 | SUN VALLEY FARM                 | OR   |
| 2.615 FOREST GLEN IMPULS JOAN           | 067354534       | 8K  | C   | 4534             | 1   | 69  | 820   | 0.02  | 41  | 0.04  | 35   | 377  | 336  | 311              | 3.06 | 2.5 | 0.4  | 0   | 80 | 0.8  | 0.88  | 6.1  | 138 | BANSEN STANLEY K & DORA H       | OR   |
| 2.616 DUPAT VIBRANT 8687                | 067148687       | 8K  | C   | 8687             | 1   | 72  | 1,454 | -0.16 | 37  | -0.09 | 34   | 304  | 336  | 369              | 2.93 | 2.5 | -0.9 | 1   | 82 | 0.8  | 2.09  | 8.1  | 138 | WICKSTROM JERSEY FARMS INC      | CA   |
| 2.617 K&K HEADLINE 3281                 | 067293281       | 3K  |     | 32810            | 0   | 64  | 1,320 | -0.12 | 36  | -0.07 | 34   | 371  | 386  | 403              | 2.92 | 4.4 | 0.0  | 1   | 71 | 0.8  | -0.02 | 8.6  | 138 | MULTI ROSE JERSEYS INC          | IA   |
| 2.618 SR LEGAL PATER-P                  | 117296462       | 3K  |     | 582              | 1   | 69  | 1,151 | -0.09 | 36  | -0.04 | 34   | 337  | 332  | 333              | 2.93 | 2.2 | 0.2  | 1   | 86 | 1.5  | 2.49  | 7.3  | 138 | SPRUCE ROW FARM                 | PA   |
| 2.619 GR CELESTIAL GANNON LACIE         | 116800941       | 3K  |     | 2091             | 2   | 70  | 1,018 | 0.02  | 49  | -0.01 | 34   | 302  | 288  | 285              | 3.05 | 1.7 | -0.2 | 1   | 78 | 1.2  | 3.38  | 5.8  | 138 | CARSON SCOTT & KRISTIN          | NY   |
| 2.620 MOLLY BROOK VALENTINO FORMIDABLE  | 067139554       | 3K  |     | 554              | 1   | 70  | 826   | 0.06  | 49  | 0.02  | 34   | 390  | 349  | 320              | 2.99 | 2.6 | -0.6 | 0   |    | 1.6  | 1.90  | 9.0  | 138 | APPLETON FARMS                  | MA   |
| 2.621 HIGHVIEW JACUS BONNIE             | 118269805       | 8K  | F   | 1579             | 1   | 71  | 777   | 0.01  | 39  | 0.04  | 34   | 361  | 313  | 277              | 2.99 | 1.1 | 0.3  | 0   | 86 | 0.9  | 2.60  | 7.8  | 138 | OELFKE JAMES L & FAMILY         | MN   |
| 2.622 GR OOMSDALE JACINTO CC CIELIA-ET  | 067080421       | 3K  |     | 421              | 3   | 71  | 416   | 0.14  | 46  | 0.10  | 34   | 409  | 334  | 289              | 3.30 | 3.4 | 0.6  | 2   | 85 | 1.1  | 1.39  | 4.2  | 138 | FREEMAN, DAVID E                | IL   |
| 2.623 BILTMORE BOLD ROSALIE 3058        | 067363058       | 8K  | F   | 3058             | 1   | 72  | 787   | 0.12  | 58  | 0.03  | 33   | 414  | 368  | 329              | 2.88 | 1.4 | 0.5  | 0   | 82 | 0.8  | 0.42  | 8.7  | 138 | BILTMORE FARMS                  | NC   |
| 2.624 TOLLENAAR ABE 4425                | 062953339       | 3K  |     | 4425             | 3   | 71  | 745   | 0.08  | 49  | 0.03  | 33   | 424  | 379  | 350              | 3.05 | 3.3 | 0.4  | 2   | 84 | 0.2  | -0.59 | 6.4  | 138 | TOLLENAAR JERSEYS               | CA   |
| 2.625 JER-Z-BOYZ MAGNIFICENT 30483      | 117795671       | 3K  |     | 30483            | 2   | 72  | 410   | 0.16  | 48  | 0.09  | 33   | 405  | 315  | 239              | 2.91 | 1.5 | -0.8 | 1   | 85 | 1.1  | 3.16  | 7.8  | 138 | JER-Z-BOYZ                      | CA   |
| 2.626 GR ASPEN GROVE DALE ESTHER        | 067092321       | 3K  |     | 321              | 1   | 65  | 1,031 | -0.05 | 38  | -0.02 | 32   | 360  | 349  | 345              | 2.95 | 3.2 | 0.8  | 1   | 83 | 0.6  | 1.40  | 4.0  | 138 | ELLENBURG, DYLAN                | TN   |
| 2.627 HILMAR ABE 14589                  | 067114589       | 50K | F   | 14589            | 4   | 77  | 735   | 0.18  | 68  | 0.03  | 32   | 433  | 384  | 342              | 2.87 | 2.4 | -1.5 | 2   | 84 | 0.4  | 1.13  | 6.5  | 138 | AHLEM, CHARLES                  | CA   |
| 2.628 JER-Z-BOYZ VERMEER 34666          | 053904085       | 3K  |     | 34666            | 1   | 64  | 727   | 0.19  | 69  | 0.03  | 32   | 437  | 399  | 378              | 3.12 | 3.0 | 0.6  | 1   | 77 | -0.1 | -1.19 | 4.4  | 138 | JER-Z-BOYZ                      | CA   |
| 2.629 AHLEM TBONE BRIDGET 31676         | 066069060       | 8K  | C   | 31676            | 3   | 75  | 707   | 0.03  | 39  | 0.04  | 32   | 277  | 239  | 217              | 3.12 | 0.4 | 0.2  | 3   | 83 | 1.7  | 4.79  | 10.0 | 138 | AHLEM, WILLIAM JR               | CA   |
| 2.630 WILSONVIEW ECLIPSE MAGIC          | 117627152       | 3K  |     | 1875             | 1   | 68  | 660   | 0.22  | 72  | 0.04  | 32   | 426  | 371  | 328              | 2.95 | 1.8 | -1.1 | 0   | 85 | 1.1  | 1.33  | 7.4  | 138 | WILSONVIEW DAIRY                | OR   |
| 2.631 CAL-MART CHAMP BRITNI 5262-ET     | 067245262       | 6K  | C   | 5262             | 1   | 72  | 348   | 0.21  | 55  | 0.10  | 32   | 404  | 318  | 252              | 3.07 | 1.2 | 0.1  | 0   | 79 | 1.2  | 2.73  | 8.9  | 138 | MARTIN DAIRY LLC                | OR   |
| 2.632 SUN VALLEY HULK JERSEYBELLE       | 117380093       | 8K  | C   | 2609             | 1   | 69  | 348   | 0.24  | 62  | 0.10  | 32   | 438  | 351  | 280              | 3.00 | 0.9 | 1.1  | 1   | 75 | -0.3 | 0.05  | 5.4  | 138 | SUN VALLEY FARM                 | OR   |
| 2.633 GR FARIA BROTHERS BOSS 44412      | 840003004195232 | 6K  | F   | 44412            | 3   | 62  | 1,114 | -0.12 | 28  | -0.05 | 31   | 315  | 312  | 306              | 2.79 | 1.7 | 0.5  | 0   | 84 | 1.0  | 2.56  | 0.2  | 138 | FARIA BROS DAIRIES              | TX   |
| 2.634 WICKS VIRGIL 4252                 | 067304252       | 3K  |     | 4252             | 1   | 66  | 1,100 | 0.01  | 52  | -0.05 | 31   | 372  | 383  | 403              | 3.10 | 3.1 | 0.1  | 0   |    | 0.7  | 0.81  | 7.1  | 138 | WICKSTROM BROS                  | CA   |
| 2.635 FARIA BROTHERS IMPULS 102435      | 840003008535803 | 3K  |     | 102435           | 1   | 65  | 545   | 0.03  | 32  | 0.05  | 31   | 393  | 330  | 279              | 2.95 | 2.8 | 0.9  | 0   |    | 0.7  | 2.11  | 3.8  | 138 | FARIA DAIRY                     | AZ   |
| 2.636 SAND HILL IMPULS ATHENA           | 067095627       | 3K  |     | 5627             | 4   | 71  | 347   | 0.12  | 39  | 0.10  | 31   | 412  | 328  | 262              | 3.01 | 2.0 | 0.6  | 3   | 90 | 1.0  | 2.29  | 4.1  | 138 | CHAMBERLAIN, DANA               | NY   |
| 2.637 MILLS LOUIE TRINITY               | 117370975       | 8K  | C   | 7019             | 2   | 72  | 1,616 | -0.18 | 38  | -0.14 | 30   | 275  | 340  | 402              | 2.94 | 2.5 | 0.8  | 1   | 80 | 0.9  | 1.87  | 7.6  | 138 | MILLS JERSEY FARM LLC           | NV   |
| 2.638 BW ROCKET AUTUMN M842             | 115150539       | 3K  |     | 807              | 4   | 75  | 1,034 | -0.13 | 23  | -0.04 | 30   | 268  | 267  | 274              | 2.99 | 1.2 | 1.6  | 2   | 92 | 1.2  | 3.69  | 8.3  | 138 | BRENTWOOD FARMS                 | CA   |
| 2.639 GR WAUNAKEE DALE PENEL 2520-ET    | 068757083       | 50K | F   | 2520             | 2   | 74  | 984   | -0.05 | 37  | -0.03 | 30   | 414  | 401  | 390              | 2.85 | 4.0 | 0.6  | 2   | 85 | 0.7  | 0.97  | 5.5  | 138 | WAKKER DAIRY                    | WI   |
| 2.640 CAL-MART LEGAL DYLAN 5134         | 067385134       | 3K  |     | 5134             | 1   | 68  | 837   | 0.04  | 47  | 0.01  | 30   | 405  | 383  | 370              | 3.00 | 3.5 | -0.2 | 0   | 75 | 1.0  | 1.98  | 6.7  | 138 | MARTIN DAIRY LLC                | OR   |
| 2.641 SUNWEST JEVON CARLOS J22919       | 840003004261589 | 3K  |     | 22919            | 3   | 73  | 814   | 0.06  | 48  | 0.01  | 30   | 475  | 439  | 405              | 2.81 | 4.3 | -0.4 | 3   | 83 | 0.5  | -0.65 | 6.3  | 138 | SUNWEST JERSEY DAIRY            | CA   |
| 2.642 RYANS TBONE TRIS 614              | 116743037       | 3K  |     | 614              | 2   | 72  | 629   | 0.06  | 39  | 0.04  | 30   | 382  | 336  | 302              | 3.00 | 2.7 | 0.6  | 2   | 84 | 1.2  | 1.80  | 9.7  | 138 | MOSS, RYAN                      | OR   |
| 2.643 AHLEM ALLSTAR SPRITE 36493        | 070047967       | 8K  | F   | 36493            | 1   | 72  | 356   | 0.31  | 75  | 0.10  | 30   | 470  | 382  | 306              | 2.87 | 1.9 | -1.3 | 1   | 77 | 0.6  | 2.24  | 8.6  | 138 | AHLEM, WILLIAM JR               | CA   |
| 2.644 D&E HEADLINE READY 22196          | 067422196       | 3K  |     | 22196            | 1   | 70  | 1,135 | -0.16 | 21  | -0.06 | 29   | 324  | 338  | 351              | 2.90 | 4.2 | -0.5 | 1   | 84 | 1.7  | 3.26  | 7.8  | 138 | D & E JERSEYS                   | TX   |
| 2.645 BW RENEGADE AMELIA U856           | 117310414       | 6K  | F   | 694              | 1   | 70  | 592   | 0.16  | 57  | 0.04  | 29   | 399  | 356  | 330              | 3.10 | 2.2 | 1.2  | 1   | 80 | 0.7  | 1.16  | 5.4  | 138 | BRENTWOOD FARMS                 | CA   |
| 2.646 AHLEM TBONE LORA 33249            | 066622682       | 3K  |     | 33249            | 2   | 72  | 466   | 0.17  | 52  | 0.07  | 29   | 356  | 289  | 234              | 2.93 | 0.4 | -1.1 | 1   | 82 | 1.9  | 5.13  | 10.0 | 138 | VANVOORAN BRENT & ROBLES STEVEN | CA   |
| 2.647 GR GLEN MEADOWS CAR JULIETTE      | 067074596       | 8K  | F   | 4596             | 3   | 70  | 956   | -0.03 | 37  | -0.03 | 28   | 343  | 336  | 332              | 2.90 | 3.0 | 0.2  | 2   | 88 | 0.8  | 3.86  | 2.1  | 138 | GLEN MEADOWS FARM               | NY   |
| 2.648 PR FARIA BROTHERS MAXIMUM 57090   | 840003006315640 | 6K  | F   | 57090            | 2   | 67  | 877   | 0.16  | 70  | -0.01 | 28   | 435  | 427  | 428              | 3.02 | 3.3 | -0.4 | 0   |    | 0.8  | 0.44  | 4.8  | 138 | FARIA BROS DAIRIES              | TX   |
| 2.649 SUNWEST JEVON HAVARTI J21934      | 840003003994166 | 3K  |     | 21934            | 3   | 74  | 845   | 0.04  | 46  | -0.01 | 28   | 421  | 400  | 381              | 2.84 | 3.9 | -0.3 | 2   | 82 | 0.6  | 1.16  | 6.9  | 138 | SUNWEST JERSEY DAIRY            | CA   |
| 2.650 VALSIGNA CELEBRITY 16696          | 117419681       | 3K  |     | 16696            | 1   | 70  | 806   | -0.03 | 31  | -0.01 | 28   | 308  | 288  | 275              | 2.98 | 2.1 | -0.2 | 1   | 78 | 1.5  | 4.27  | 8.3  | 138 | WICKSTROM DAIRIES, LP           | CA   |

## November 2013 - Top 1.5% Cows Ranked by Genomic JPI (GJPI)

| Name                                     | Reg #           | GT  | JH1 | CCN   | GPTA |     |       |       |     |       |      |      |      |      | TYPE |     |      |     |    |      |       | Owner | ST  |                       |      |
|--|-----------------|-----|-----|-------|------|-----|-------|-------|-----|-------|------|------|------|------|------|-----|------|-----|----|------|-------|-------|-----|-----------------------|------|
|  |                 |     |     |       | Rec  | Rel | Milk  | %F    | Fat | %P    | Prot | CM\$ | NM\$ | FM\$ | SCS  | PL  | DPR  | Rec | FS | PTAT | JUI   |       |     | GFI                   | GJPI |
| 2.651 BW RENEGADE TAMMIE ET781-ET        | 117353291       | 6K  | F   | 1284  | 1    | 72  | 732   | 0.10  | 51  | 0.01  | 28   | 392  | 353  | 316  | 2.81 | 2.2 | 0.1  | 1   | 76 | 0.8  | 2.82  | 6.9   | 138 | BRENTWOOD FARMS       | CA   |
| 2.652 INTEGRITY RENEGADE DACIA           | 067158158       | 3K  |     | 158   | 1    | 68  | 705   | 0.09  | 51  | 0.01  | 28   | 399  | 360  | 326  | 2.86 | 2.5 | -0.1 | 1   | 79 | 1.1  | 2.08  | 7.1   | 138 | KARRELS, WILLIAM J    | WI   |
| 2.653 HIGH LAWN UPPERCUT SATURN          | 117486801       | 8K  | F   | 12543 | 1    | 70  | 562   | 0.04  | 33  | 0.04  | 28   | 433  | 385  | 347  | 2.98 | 4.2 | 1.2  | 0   | 84 | 0.7  | 0.89  | 7.3   | 138 | HIGH LAWN FARM        | MA   |
| 2.654 AHLEM TBONE CHARM 33899            | 066623332       | 8K  | F   | 33899 | 2    | 74  | 374   | 0.20  | 54  | 0.07  | 28   | 384  | 317  | 266  | 3.05 | 1.1 | 0.4  | 2   | 85 | 1.3  | 3.23  | 9.9   | 138 | AHLEM, WILLIAM JR     | CA   |
| 2.655 JARS OF CLAY ROCKET MARIE          | 114273653       | 3K  |     | 10    | 5    | 77  | 1,088 | -0.08 | 34  | -0.06 | 27   | 316  | 329  | 341  | 2.90 | 2.0 | 0.7  | 2   | 86 | 1.3  | 2.71  | 9.2   | 138 | WICKSTROM, ASHLAN     | CA   |
| 2.656 GR VALSIGNA KANOO 17079            | 117550764       | 3K  |     | 17079 | 1    | 67  | 787   | -0.08 | 20  | -0.01 | 27   | 419  | 396  | 377  | 2.88 | 5.1 | 1.5  | 1   | 69 | 0.0  | 0.62  | 4.6   | 138 | WICKSTROM DAIRIES, LP | CA   |
| 2.657 JER-Z-BOYZ DAMASCUS 33301          | 117647745       | 8K  | F   | 33301 | 2    | 73  | 737   | 0.06  | 46  | 0.00  | 27   | 438  | 408  | 380  | 2.86 | 3.6 | -0.2 | 1   | 85 | 0.9  | 1.46  | 8.1   | 138 | JER-Z-BOYZ            | CA   |
| 2.658 DUTCH HOLLOW RENEGADE MEADE        | 067184578       | 8K  | F   | 4578  | 0    | 65  | 706   | 0.10  | 51  | 0.01  | 27   | 425  | 392  | 362  | 2.86 | 3.3 | 0.1  | 0   | 79 | 1.2  | 1.80  | 5.8   | 138 | CHITTENDEN, MELANIE F | NY   |
| 2.659 ORTHRIDGE KANOO GRAYCIE            | 067127822       | 3K  |     | 822   | 1    | 63  | 681   | 0.07  | 46  | 0.01  | 27   | 437  | 407  | 386  | 2.99 | 4.1 | 1.1  | 1   | 76 | 0.3  | 0.61  | 3.9   | 138 | ROCKY TOP JERSEY FARM | WI   |
| 2.660 DUPAT CELEBRITY 4081               | 067304081       | 3K  |     | 4081  | 1    | 69  | 605   | 0.09  | 45  | 0.03  | 27   | 390  | 350  | 318  | 2.95 | 3.0 | 0.6  | 1   | 82 | 1.2  | 2.34  | 7.8   | 138 | WICKSTROM, BRENTON    | CA   |
| 2.661 CLOVER PATCH MAX CORNFLAKE         | 116774888       | 8K  | F   | 1602  | 2    | 71  | 585   | 0.18  | 62  | 0.03  | 27   | 425  | 387  | 359  | 3.01 | 3.2 | -1.0 | 2   | 87 | 1.4  | 2.38  | 6.8   | 138 | KOZAK, ALAN           | OH   |
| 2.662 AHLEM MILITIA DORA 19212           | 064552766       | 3K  |     | 19212 | 5    | 74  | 503   | 0.02  | 28  | 0.05  | 27   | 370  | 323  | 291  | 3.06 | 2.6 | 1.0  | 2   | 90 | 0.8  | 3.91  | 7.8   | 138 | AHLEM, WILLIAM JR     | CA   |
| 2.663 CLOVER PATCH LEGAL LEXUS           | 117674387       | 8K  | C   | 2053  | 1    | 71  | 1,036 | -0.09 | 28  | -0.06 | 26   | 303  | 318  | 337  | 2.99 | 2.7 | 0.5  | 0   | 84 | 1.6  | 4.90  | 8.1   | 138 | KOZAK, ALAN           | OH   |
| 2.664 DP ROCKET FAY 68                   | 115601222       | 3K  |     | 68    | 4    | 74  | 884   | 0.00  | 39  | -0.02 | 26   | 318  | 316  | 319  | 2.98 | 1.6 | 0.9  | 2   | 90 | 1.2  | 3.55  | 7.0   | 138 | DESERT PARK JERSEYS   | OR   |
| 2.665 CAL-MART HEADLINE CHEYLA 5104      | 067385104       | 3K  |     | 5104  | 1    | 69  | 572   | 0.00  | 27  | 0.03  | 26   | 443  | 401  | 366  | 2.91 | 5.0 | 1.6  | 0   | 76 | 0.5  | 1.10  | 7.5   | 138 | MARTIN DAIRY LLC      | OR   |
| 2.666 CAL-MART HEADLINE SYLVIE 5084      | 067125084       | 3K  |     | 5084  | 1    | 70  | 924   | -0.04 | 34  | -0.04 | 25   | 407  | 415  | 426  | 2.98 | 5.8 | 1.0  | 0   | 76 | 0.7  | 0.91  | 7.8   | 138 | MARTIN DAIRY LLC      | OR   |
| 2.667 HILMAR GREATNESS 20622             | 067320622       | 3K  |     | 20622 | 4    | 76  | 890   | -0.03 | 34  | -0.03 | 25   | 412  | 407  | 401  | 2.84 | 4.6 | 0.7  | 3   | 90 | 1.6  | 1.88  | 6.5   | 138 | AHLEM, CHARLES        | CA   |
| 2.668 HILMAR APPLEJACK 29760             | 067329760       | 8K  | F   | 29760 | 1    | 72  | 705   | -0.01 | 31  | 0.00  | 25   | 282  | 268  | 265  | 3.06 | 1.1 | 0.1  | 1   | 79 | 2.1  | 7.31  | 9.3   | 138 | AHLEM, CHARLES        | CA   |
| 2.669 AHLEM CELEBRITY SIESTA 36101       | 070047575       | 8K  | C   | 36101 | 1    | 73  | 242   | 0.15  | 40  | 0.09  | 25   | 411  | 337  | 280  | 3.04 | 2.8 | 0.5  | 1   | 83 | 1.6  | 4.54  | 9.4   | 138 | AHLEM, WILLIAM JR     | CA   |
| 2.670 HILMAR SPARKY 33014                | 067433014       | 6K  | F   | 33014 | 1    | 72  | 876   | -0.05 | 33  | -0.04 | 24   | 344  | 345  | 350  | 2.95 | 3.2 | 0.1  | 1   | 77 | 1.0  | 3.77  | 8.2   | 138 | AHLEM, CHARLES        | CA   |
| 2.671 D&E LOTTO VIOLET 50041-ET          | 067150041       | 3K  |     | 50041 | 1    | 70  | 712   | 0.12  | 57  | -0.01 | 24   | 444  | 420  | 393  | 2.77 | 4.2 | -0.6 | 0   | 82 | 0.9  | 2.42  | 7.5   | 138 | D & E JERSEYS         | TX   |
| 2.672 BW VALENTINO VERA ET763-ET         | 117267499       | 3K  |     | 428   | 1    | 72  | 651   | 0.08  | 45  | 0.00  | 24   | 370  | 345  | 322  | 2.87 | 2.0 | -0.6 | 1   | 86 | 2.3  | 4.58  | 9.2   | 138 | BRENTWOOD FARMS       | CA   |
| 2.673 TOLLENAAR LOTTO 7422               | 840003008872497 | 8K  | F   | 7422  | 0    | 66  | 595   | 0.16  | 58  | 0.02  | 24   | 455  | 419  | 386  | 2.86 | 3.6 | 1.1  | 0   |    | 0.9  | 1.41  | 8.0   | 138 | TOLLENAAR JERSEYS     | CA   |
| 2.674 WICKS ABE 3523                     | 067133523       | 50K | F   | 1018  | 3    | 74  | 341   | 0.14  | 43  | 0.06  | 23   | 522  | 456  | 392  | 2.77 | 5.0 | 1.0  | 1   | 83 | 0.6  | -0.15 | 5.6   | 138 | WICKSTROM BROS        | CA   |
| 2.675 HAWARDEN IMPULS PIXY               | 067099553       | 50K | F   | 553   | 2    | 73  | 30    | 0.23  | 44  | 0.13  | 23   | 499  | 406  | 328  | 2.97 | 4.2 | 0.7  | 1   | 85 | 0.9  | 2.08  | 7.7   | 138 | HAWARDEN JERSEYS INC  | ID   |
| 2.676 JER-Z-BOYZ MATINEE 29174           | 117647482       | 3K  |     | 29174 | 3    | 71  | 433   | 0.12  | 44  | 0.03  | 22   | 464  | 423  | 388  | 2.94 | 4.7 | 1.5  | 3   | 88 | 0.7  | 1.39  | 4.7   | 138 | JER-Z-BOYZ            | CA   |
| 2.677 FRONT LINE MFW BLACKSTONE BARON    | 067301572       | 3K  |     | 1572  | 2    | 72  | 245   | 0.12  | 34  | 0.06  | 22   | 450  | 389  | 340  | 3.00 | 4.4 | 0.6  | 2   | 83 | 1.4  | 3.20  | 7.7   | 138 | MASON, ANDREW P       | MD   |
| 2.678 SUNSET CANYON VIBRANT ANTHEM       | 117501229       | 3K  |     | 358   | 1    | 70  | 1,004 | -0.18 | 11  | -0.07 | 21   | 320  | 350  | 376  | 2.90 | 4.7 | 0.7  | 1   | 85 | 1.2  | 4.23  | 9.0   | 138 | JENSEN, NATHAN A      | OR   |
| 2.679 GR FARIA BROTHERS APPARITION 65822 | 840003006264273 | 6K  | F   | 65822 | 2    | 68  | 273   | 0.29  | 66  | 0.06  | 21   | 496  | 441  | 397  | 3.00 | 4.1 | 0.7  | 0   | 85 | 0.6  | 1.40  | 3.8   | 138 | FARIA DAIRY           | AZ   |
| 2.680 DUTCH HOLLOW LEGAL DANICA          | 067184448       | 8K  | F   | 4448  | 1    | 70  | 209   | 0.11  | 31  | 0.07  | 21   | 441  | 378  | 326  | 2.97 | 3.9 | 1.5  | 0   | 81 | 1.6  | 4.05  | 7.0   | 138 | DUTCH HOLLOW FARM     | NY   |
| 2.681 O.F. HEADLINE VICTORIA             | 067277384       | 6K  | C   | 7384  | 1    | 73  | 834   | -0.06 | 24  | -0.05 | 20   | 384  | 389  | 388  | 2.78 | 5.1 | 0.6  | 1   | 81 | 1.0  | 3.03  | 9.4   | 138 | OWENS FARMS INC       | WI   |
| 2.682 JCJ IMPULS 19410                   | 840003005083767 | 3K  |     | 19410 | 3    | 72  | 315   | 0.07  | 30  | 0.04  | 20   | 404  | 359  | 325  | 3.00 | 3.9 | 0.7  | 2   | 87 | 1.2  | 4.87  | 6.5   | 138 | AHLEM, JAMES          | CA   |
| 2.683 CAL-MART MAXIMUM JULIA 9805        | 115750029       | 3K  |     | 210   | 4    | 72  | 196   | 0.30  | 64  | 0.06  | 19   | 565  | 504  | 446  | 2.84 | 4.8 | 0.7  | 2   | 79 | 0.0  | -0.37 | 4.6   | 138 | MARTIN DAIRY LLC      | OR   |
| 2.684 CLOVER PATCH HEADLINE PLATO        | 117674734       | 8K  | F   | 2085  | 1    | 70  | 538   | -0.06 | 13  | 0.00  | 18   | 439  | 421  | 404  | 2.87 | 6.2 | 1.8  | 0   | 83 | 1.1  | 2.37  | 7.7   | 138 | KOZAK, ALAN           | OH   |
| 2.685 AHLEM LEGAL BUTTONS 37546          | 070049020       | 8K  | C   | 37546 | 1    | 70  | 328   | 0.11  | 35  | 0.03  | 17   | 403  | 371  | 346  | 3.00 | 4.0 | 1.0  | 0   | 78 | 1.8  | 5.60  | 9.1   | 138 | AHLEM, WILLIAM JR     | CA   |
| 2.686 AHLEM IATOLA VANITY 32859          | 066622292       | 8K  | F   | 32859 | 3    | 76  | 231   | 0.04  | 18  | 0.04  | 17   | 401  | 354  | 312  | 2.89 | 3.7 | 0.5  | 3   | 93 | 2.2  | 6.95  | 9.9   | 138 | AHLEM, WILLIAM JR     | CA   |
| 2.687 FOREST GLEN ALEXANDERS ORANGE      | 067354746       | 3K  |     | 4746  | 0    | 59  | -61   | 0.17  | 30  | 0.10  | 17   | 566  | 477  | 391  | 2.75 | 5.9 | 2.2  | 0   | 71 | 0.2  | 0.97  | 4.3   | 138 | BANSEN, DAN K         | OR   |
| 2.688 VALSIGNA ACADEMY 17439             | 117611168       | 3K  |     | 17439 | 1    | 68  | 533   | -0.03 | 19  | -0.02 | 13   | 383  | 379  | 368  | 2.76 | 4.6 | 1.1  | 1   | 77 | 1.6  | 7.25  | 6.6   | 138 | WICKSTROM DAIRIES, LP | CA   |