Generation Count 3 or GC 4-6 with BBR 93 and Lower: Genomic Tested (G) Bulls by JPI
August 2018

ST	Name of Bull	Registration Number	GT	BBR	JH1	NAAB Code	No. Hrds	No. Daus	REL %	Milk	% Fat	Fat	% Prot	Prot	CM$	NM$	FM$	GM$	SCS
G	JX CAL-MART LUKE DANNY {3}-ET	USA 067384595	99K	100	F	29JE4104			74	1585	0.05	85	0.03	63	702	674	615	594	2.85
G	JX FARIA BROTHERS RONDO {3}-ET	840003140305947	99K	93	F	29JE4092			72	1368	0.14	95	0.06	62	699	661	580	546	2.79
G	JX AVI-LANCHE LUKE DAB {3}-ET	840003131411768	99K	93	F	29JE4109			72	1036	0.05	60	0.04	46	690	663	607	647	2.89
G	JX PINE-TREE UNCLE LUKE ACCLIMATE {3}-ET	USA 067671562	99K	89	F	29JE4101			72	1221	0.08	75	0.04	52	712	686	631	647	2.97
G	JX PINE-TREE ACHIEVER {3}-ET	USA 067731401	99K	100	F	1JE1054			73	1262	0.00	59	0.03	52	665	641	588	578	2.92
G	JX ABS TLD HEINZ {3}-ET	840003141494611	99K	91	F	29JE4110			72	1125	0.06	67	0.06	52	679	647	581	634	2.92
G	JX FARIA BROTHERS CESPEDES {3}-ET	840003135124402	99K	92	F	1JE1057			74	852	0.18	78	0.08	48	698	658	574	580	2.84
G	JX AVI-LANCHE LUKE DUKE {3}-ET	840003131411680	99K	93	F	29JE4106			70	1124	0.06	66	0.03	46	678	657	611	651	2.93
G	JX AVI-LANCHE LUKE LONZO {3}-ET	840003131411702	99K	89	F	29JE4107			73	1197	0.05	67	0.02	48	644	622	576	592	2.89
G	JX PINE-TREE DOX {3}-ET	USA 067671500	99K	100	F	1JE1081			74	827	0.16	72	0.05	41	654	625	565	612	2.89
G	JX CLOVER PATCH AVON ENZO {3}	USA 119904055	45K	100	F	100JE7400			74	2044	-0.14	66	-0.03	66	607	595	572	514	2.80
G	JX FARIA BROTHERS ALTAROZIER {3}	840003140371346	99K	100	F	11JE1349			76	971	0.16	80	0.11	57	679	636	540	578	3.08
G	JX FARIA BROTHERS KOBE {3}-P-ET	840003140305965	99K	100	F	200JE1142			74	1108	0.13	80	0.05	50	669	638	573	564	2.83
G	JX FARIA BROTHERS KEVIN GARNETT {3}-ET	840003135124344	99K	92	F	29JE4070			75	1486	0.05	81	0.01	55	644	625	585	514	2.91
G	JX CAL-MART AVON PAVIT {3}	USA 067384587	99K	100	F	29JE4103			75	1619	-0.15	45	-0.03	51	601	592	578	531	2.80
G	JX PINE-TREE UL ARRIVE {3}-ET	USA 067671566	99K	100	F	97JE177			73	801	0.17	73	0.04	38	675	651	601	610	2.96
G	JX CROSSWIND CYRUS {3}-ET	840003134421684	50K	93	F	200JE1130			75	861	0.11	63	0.06	44	611	577	505	527	2.76
G	JX FARIA BROTHERS LUKEMAYE {3}-ET	840003135124466	99K	89	F	200JE1122			74	1557	-0.01	72	0.02	61	624	601	553	537	3.05
G	JX PINE-TREE ARENA {3}-ET	USA 067731379	99K	91	F	1JE1047			74	1374	-0.03	59	0.01	52	612	594	556	552	2.99
G	JX CAL-MART BEAMER {3}	USA 067384563	99K	100	C	29JE4097			76	471	0.23	69	0.09	35	630	591	509	506	2.72
G	JX FARIA BROTHERS FAMILIA {3}-ET	840003126052286	50K	93	C	551JE1699			77	881	0.21	85	0.04	40	662	638	587	538	2.90
G	JX SEXING AVON HATARI {3}-ET	840003132350040	99K	89	F	551JE1664			73	1554	-0.09	55	0.02	60	586	561	510	476	2.87
G	JX FARIA BROTHERS HAYWARD {4}-ET	840003140371525	99K	93	F	97JE174			72	859	0.16	73	0.05	41	607	579	520	515	2.83
G	JX FARIA BROTHERS JACK BAUER {3}-ET	840003135124283	99K	92	F	1JE1076			75	1530	0.04	82	0.01	58	609	586	540	467	2.87
G	JX FARIA BROTHERS WILFORK {4}-ET	840003140371429	99K	93	F	551JE1704			72	1259	0.00	59	0.02	50	577	553	505	461	2.84
G	JX FARIA BROTHERS USAIN BOLT {3}	840003135124231	99K	90	F	1JE984			74	736	0.23	82	0.10	46	630	591	505	533	2.96
G	JX PINE-TREE AMPLIFY {3}-ET	USA 067731444	99K	92	F	1JE1069			74	799	0.13	64	0.08	45	617	583	510	544	3.02
G	JX OAK LANE AVON DANCER {3}-ET	USA 067742194	99K	100	F	614JE1658			75	1277	-0.09	41	-0.02	41	566	560	550	549	2.96
G	JX SPRING CREEK MARLO STONEY {3}-ET	840003011730374	99K	100	F	14JE769			76	588	0.30	89	0.09	40	657	619	537	534	2.91
G	JX AARDEMA JONES {3}	840003012659145	99K	100	F	1JE1080			75	1170	0.06	69	-0.01	39	589	580	563	582	2.88
G	JX FARIA BROTHERS JODECI {3}	840003126051999	99K	100	F	1JE964			76	747	0.19	74	0.10	47	601	561	474	484	2.99
G	JX SEXING TI WALT {3}-ET	840003132350838	99K	100	F	551JE1686			74	1502	-0.04	62	-0.01	52	559	544	514	485	2.82
G	JX FARIA BROTHERS FUTURE {3}-ET	840003126052250	99K	93	F	1JE966			77	1027	0.10	69	0.03	43	609	587	541	509	2.90
G	JX FARIA BROTHERS VERNE LUNDQUIST {3}-ET	840003135124350	99K	100	F	29JE4071			75	1021	0.05	59	0.05	47	567	536	473	519	2.83
G	JX FARIA BROTHERS FOURNETTE {3}-ET	840003135124113	99K	100	F	7JE1600			75	1684	-0.09	61	-0.01	59	562	545	512	493	2.89
G	JX PINE-TREE APPEAL {3}-ET	USA 067731446	99K	88	F	1JE1071			74	1510	-0.08	55	0.00	54	581	565	533	533	2.95
G	JX FARIA BROTHERS ALTAPIPELINE {3}	840003140371467	99K	100	F	11JE1358			75	1475	-0.03	63	0.00	53	563	546	511	508	2.86
G	JX BLUE MIST MESQUITE {3}-ET	USA 119755026	99K	100	F	97JE161			77	815	0.13	66	0.08	46	595	560	484	487	3.01
G	JX CROSSWIND AVON KAZAN {3}-ET	840003134421681	99K	100	F	1JE1041			75	1721	-0.11	59	-0.03	56	558	548	531	507	2.92
G	JX PROMETEDOR CLIVE {3}	USA 067192959	99K	100	F	200JE1161			76	1103	0.20	95	0.06	53	648	617	549	491	3.06
G	JX DUPAT JLS AVON KLAY {3}-P-ET	840003127607528	99K	100	F	7JE1569			76	1532	-0.09	54	-0.01	52	558	545	520	504	2.89
G	JX AARDEMA TELFORD {4}-ET	840003138766596	99K	90	F	1JE1082			64	927	-0.01	42	0.05	44	546	518	458	504	2.92
G	JX FARIA BROTHERS DEGROM {3}-ET	840003126052253	99K	100	C	1JE962			77	932	0.12	70	0.03	40	615	592	546	500	2.86
G	JX HIGHVIEW GUNSMOKE {3}	840003130020244	50K	100	F	14JE762			76	1322	0.04	71	0.02	52	576	553	506	473	2.89
G	JX SEXING UNCLE LUKE BANKS {3}-ET	840003132350950	29K	100	F	551JE1688			74	1188	-0.04	48	-0.01	40	561	549	527	503	2.79
G	JX FARIA BROTHERS BRIGGS {3}	840003135124085	99K	100	C	200JE1146			73	1053	0.02	55	0.01	40	590	575	545	515	2.97
G	JX FARIA BROTHERS DIRK {3}-P-ET	840003140371284	99K	100	F	200JE1143			72	1060	0.10	71	0.06	51	585	554	487	491	3.01
G	JX OAK LANE DIE-HARD {3}-ET	USA 067742193	99K	100	F	97JE172			76	1040	-0.05	38	0.00	37	540	527	503	498	2.87
G	JX SEXING AVON BELLMAN {3}-ET	840003132350031	99K	92	F	551JE1678			75	1286	-0.07	46	-0.02	43	545	534	515	476	2.87
G	JX FARIA BROTHERS RAKITIC {3}	840003126051974	99K	90	F	200JE1056			75	1520	0.03	78	0.04	64	570	540	475	434	3.01
G	JX SEXING TI WONDRA {3}-ET	840003132350836	99K	93	F	551JE1692			74	1568	-0.04	65	0.01	59	564	543	499	473	2.93
G	JX FARIA BROTHERS MANUEL {3}-ET	840003135124229	99K	100	F	200JE1120			74	1316	0.07	78	0.05	57	586	560	501	467	3.10
G	JX AARDEMA CRUSADER {3}	840003009543941	99K	100	F	200JE1129			75	1784	-0.11	61	-0.04	56	566	560	550	470	2.93
G	JX PINE-TREE AVON SOLID {3}-ET	USA 067771285	99K	91	F	1JE1033			74	1256	-0.06	48	0.02	50	528	505	458	465	2.88
G	JX PEAK ALTAARAGORN {3}-ET	840003142181559	99K	100	F	11JE1368			76	1342	0.06	76	0.00	49	590	572	537	488	2.85
G	JX FARIA BROTHERS VEGA {3}	840003140371270	99K	100	F	29JE4091			75	1359	-0.04	56	0.00	48	550	535	505	495	2.85
G	JX GRAM-WAY AVON DIGGER {3}-ET	840003132219787	99K	91	F	14JE1680			74	1121	-0.02	49	-0.01	39	560	548	526	536	2.89
G	JX CROSSWIND PRIAPUS {3}	USA 119499535	50K	91	F	14JE742			75	669	0.10	52	0.03	30	566	547	508	535	2.86
G	JX FARIA BROTHERS RONALDINHO {3}	840003126052015	99K	100	F	7JE1503			76	1737	-0.01	80	0.04	71	567	537	472	418	3.05
G	JX MEIER MARLO BARLEY {3}	USA 067179096	99K	100	F	551JE1679			76	1232	0.00	58	-0.01	43	556	545	521	501	2.93
G	JX AARDEMA ASTRIX {3}	840003012658926	99K	85	F	1JE994			67	1287	-0.02	56	-0.02	42	560	553	539	533	2.93
G	JX SHOT OF NAT ALBION {3}-ET	USA 067187975	99K	91	F	507JE1620			74	1023	-0.03	43	-0.01	35	531	521	503	494	2.89
G	JX ROCK SOLID ANVIL {3}	USA 075211026	99K	100	F	200JE1126			75	1481	-0.09	51	0.00	54	524	506	469	427	2.89
G	JX FARIA BROTHERS ZELLER {3}-ET	840003135124385	99K	100	F	200JE1121			75	1148	0.07	70	0.03	48	579	558	511	439	3.04
G	JX SUN VALLEY GUINNESS {3}	USA 119703328	99K	100	F	29JE4067			75	1264	-0.07	46	0.00	46	518	504	474	471	2.96
G	JX SEXING TI MAMBA {3}-ET	840003132350493	99K	100	F	551JE1696			74	1209	0.00	58	0.00	43	534	524	501	533	3.04
G	JX FARIA BROTHERS BOOGIE COUSINS {3}-ET	840003135124227	99K	92	F	1JE1056			75	932	-0.01	43	0.04	41	530	507	458	507	2.91
G	JX SEXING AVON BANTER {3}-ET	840003132350112	99K	100	F	551JE1670			76	1795	-0.19	45	-0.04	56	522	517	508	444	2.96
G	JX PINE-TREE FRESCA {3}-ET	USA 067731375	99K	100	F	1JE1046			76	428	0.23	66	0.09	34	563	525	444	467	2.81
G	JX FARIA BROTHERS KENNY {3}-ET	840003140306013	99K	100	F	551JE1713			76	1413	0.08	83	0.00	51	571	556	525	482	2.97
G	JX CO-OP AD MARLO TEX {3}	840003012658885	99K	90	F	1JE982			76	1396	-0.02	63	0.00	51	527	512	479	424	2.97
G	JX SCHOENE-KUH M NORBERT {3}-ET	USA 119770294	99K	92	F	1JE1036			76	1402	-0.04	59	-0.01	48	550	542	523	493	3.08
G	JX SEXING TI GRANGER {3}-ET	840003132350882	29K	100	F	551JE1687			74	1869	-0.14	59	-0.08	50	521	530	552	485	3.00
G	JX FARIA BROTHERS ALLEN IVERSON {3}-ET	840003135124354	99K	87	F	29JE4069			74	1279	0.07	75	0.01	49	560	539	497	440	2.85
G	JX CROSSWIND MARL OASIS {3}-ET	840003134421682	99K	100	C	1JE1042			76	972	0.11	69	0.03	41	555	536	494	463	3.00
G	JX WILSONVIEW MAC {3}-ET	USA 119760345	99K	93	F	200JE1127			76	876	0.01	44	0.04	40	513	491	444	463	3.03
G	JX SEXING TI WAYLON {3}-ET	840003132350488	99K	90	F	551JE1691			73	1652	-0.09	59	-0.01	58	509	495	465	456	2.99
G	JX SEXING UNCLE LUKE WARWAGON {3}-ET	840003132350977	99K	89	F	551JE1697			72	1363	-0.01	62	0.01	51	543	527	491	476	3.00
G	JX DUPAT JLS AVON STEPH {3}-P-ET	840003127607527	99K	91	F	7JE1570			76	1382	-0.02	61	0.00	49	531	516	486	452	2.90
G	JX FARIA BROTHERS JAE CROWDER {3}	840003135124084	99K	93	F	1JE973			75	972	0.10	67	0.04	44	531	505	451	482	2.93

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PL	LIV	DPR	DPR REL	CCR	HCR	EFI	JPI	Type Hrds	Type Daus	Type REL	FS	ST	SR	DF	RA	RW	RL	FA	FU	RH	RUW	UC	UD	TP	TL	RTP RV	RTP SV	JUI
4.2	0.3	-0.2	55	0.5	4.0	5.5	207	0	0	72	1.2	1.2	0.2	1.0	L1.7	-0.3	S0.8	L0.4	0.3	1.3	0.7	0.3	S0.6	W0.3	L1.0	W0.2	C0.1	6.2
3.1	-0.8	-1.8	47	-1.1	0.2	3.0	205	0	0	68	0.9	-0.8	-0.3	0.3	L0.1	-0.6	S0.1	S0.1	0.7	0.3	0.2	0.5	S1.3	W0.4	L0.1	W0.6	C0.4	9.9
6.6	3.6	3.3	48	3.0	3.5	3.7	203	0	0	68	1.8	2.0	0.7	0.3	L0.2	0.7	P0.5	S0.8	1.9	1.8	0.3	0.5	S2.5	W0.1	L1.0	C0.8	B0.7	21.5
6.1	1.2	2.1	56	2.4	2.3	5.0	202	0	0	71	1.9	2.0	0.9	0.7	L0.2	0.4	P0.6	S1.2	1.4	1.7	0.5	0.8	S1.9	C0.5	L1.1	C0.2	B0.3	18.9
6.6	2.0	1.0	60	1.7	3.1	5.2	200	0	0	72	1.8	1.3	0.5	0.5	H0.8	0.6	P0.5	S1.1	2.6	1.4	0.4	0.7	S3.1	C1.1	L0.7	W0.1	B0.2	27.9
5.8	0.2	2.8	51	3.0	2.5	4.4	200	0	0	69	1.5	1.9	0.7	1.0	H0.3	0.7	P0.5	S0.7	1.8	1.4	0.8	-0.1	S2.1	C0.5	L0.8	C0.6	0.0	17.2
5.2	0.8	0.4	62	-0.4	0.1	5.4	198	0	0	73	1.9	0.8	0.3	0.7	H0.7	0.7	P0.9	S1.3	2.4	1.6	0.5	0.1	S2.8	W0.1	L0.8	C0.7	C0.1	22.6
5.8	3.0	3.2	43	4.2	4.1	2.9	198	0	0	64	1.7	1.4	0.9	0.4	0.0	0.6	P0.6	S0.7	1.5	1.4	0.3	0.5	S1.8	W0.3	L0.5	C0.8	B0.7	16.8
5.1	0.2	1.7	53	1.7	4.2	4.7	197	0	0	71	1.8	2.0	0.3	1.8	L1.4	0.1	S0.2	S0.7	1.4	2.5	1.3	1.3	S1.3	C1.3	L0.3	C1.1	B0.6	22.7
4.7	2.1	2.7	58	2.6	3.2	6.4	194	0	0	73	1.6	1.9	1.1	0.6	L0.2	0.8	S0.2	S0.8	2.2	1.2	0.5	1.1	S2.4	C0.6	L0.6	C0.7	C0.4	24.3
4.2	-1.3	-0.6	62	0.3	2.2	6.5	192	0	0	74	1.8	1.4	1.0	1.5	L0.3	0.5	S0.2	S0.4	1.3	1.2	1.1	1.1	S1.1	C1.1	L0.2	0.0	C0.3	17.2
4.2	-0.2	0.8	66	0.5	0.3	6.3	192	0	0	76	1.2	-0.3	0.0	0.6	H0.9	-0.4	P0.4	S0.3	1.4	1.2	0.5	-0.3	S1.3	W0.5	L0.3	W0.5	B0.4	10.7
4.2	2.8	0.5	62	0.7	0.9	6.9	191	0	0	75	1.0	0.4	0.3	0.7	L0.7	-0.1	S0.4	L0.2	0.2	0.8	0.5	0.6	S0.4	W0.2	S0.2	C0.9	B0.4	6.9
3.9	0.1	-1.5	59	-1.6	0.8	6.3	187	0	0	74	2.0	1.5	1.0	1.2	H0.5	1.1	P0.6	S0.9	2.8	1.5	0.9	0.5	S2.6	C1.3	L0.4	C0.5	C0.1	26.6
6.3	2.9	1.0	61	1.5	2.3	5.4	187	0	0	74	2.3	1.1	0.9	0.7	L0.3	0.6	P0.4	S1.3	2.6	1.9	0.5	1.0	S2.4	C0.8	L0.4	W0.3	C0.8	27.4
6.1	2.5	2.1	58	1.8	1.6	5.7	187	0	0	72	2.0	1.1	0.7	0.5	H0.1	0.6	P0.7	S1.0	2.2	2.0	0.4	0.7	S2.3	C0.7	L1.2	C0.2	B0.3	23.5
5.2	1.2	1.1	63	1.8	2.6	6.7	186	0	0	75	1.3	0.1	0.8	-0.2	L0.6	0.3	P0.1	S0.3	2.0	0.8	-0.1	1.1	S1.7	C0.6	L0.2	C0.7	C0.3	20.1
3.4	0.6	0.1	57	0.6	2.1	6.3	185	0	0	73	1.6	1.1	0.3	1.4	L1.4	-0.1	S0.3	L0.6	0.3	2.2	1.1	0.7	S0.9	W0.6	L0.7	W0.1	B0.1	11.6
5.3	0.7	1.4	61	1.6	2.1	5.3	184	0	0	72	2.0	0.8	1.2	0.2	H0.8	1.1	P1.1	S1.6	2.8	1.4	0.1	0.8	S2.5	C1.8	0.0	W0.1	B0.2	28.2
5.4	1.2	-0.5	65	0.0	3.4	7.1	184	0	0	76	1.7	-0.1	0.3	0.8	H0.2	0.5	P0.6	S1.0	2.4	1.5	0.6	0.5	S2.4	C1.2	S0.2	C0.9	B0.1	25.3
4.8	1.7	-0.7	64	-0.5	0.6	5.9	181	0	0	75	2.2	1.4	0.1	1.4	0.0	0.8	S0.2	S0.7	2.1	1.6	1.1	-0.1	S2.4	C0.3	L0.1	C1.4	C0.4	20.9
4.3	1.0	-0.5	58	-0.3	0.6	4.5	180	0	0	71	1.5	0.4	0.9	0.1	H0.7	0.7	P0.8	S1.1	2.2	0.9	0.1	0.9	S2.5	W0.1	L0.7	W0.1	0.0	22.1
3.6	1.4	0.2	56	0.2	1.6	5.3	180	0	0	72	1.8	0.4	0.4	0.7	0.0	0.1	P0.3	S0.7	2.2	1.5	0.5	0.7	S1.8	C1.2	S0.3	C1.1	C0.1	23.0
2.7	-0.4	-2.3	57	-1.5	0.0	6.0	179	0	0	73	1.8	1.5	0.8	1.1	L0.5	0.3	0.0	S0.2	1.7	1.2	0.8	1.0	S1.8	C0.9	L0.9	W0.4	C0.1	19.7
4.5	0.8	-1.0	56	-0.6	2.4	6.4	179	0	0	72	2.0	1.4	0.7	0.6	H0.3	0.9	P0.6	S0.9	2.8	1.6	0.5	1.2	S2.8	C1.4	L0.4	C0.2	C0.1	30.5
3.3	-0.1	0.3	58	0.6	2.1	4.0	179	0	0	71	1.0	2.3	1.2	0.1	H0.3	1.2	P0.5	S1.3	2.8	0.4	0.1	-0.2	S3.1	C0.7	S0.1	C0.8	C0.6	23.2
5.4	1.0	1.5	63	2.0	2.7	6.0	179	0	0	74	1.5	0.7	0.5	0.5	H0.4	0.4	0.0	S0.4	1.7	1.4	0.4	0.4	S1.7	C0.7	L0.3	C0.5	B0.1	18.1
6.4	3.3	2.7	64	3.5	4.8	7.6	178	0	0	76	2.1	1.5	0.6	1.0	L0.4	0.6	S0.1	S0.8	2.5	1.6	0.7	0.6	S2.7	C1.1	S0.4	C0.2	C0.6	27.8
4.1	-0.3	-0.6	65	-0.2	1.4	7.0	178	0	0	76	1.4	0.4	0.3	0.9	H1.0	0.8	P0.8	S0.6	2.1	1.5	0.7	0.0	S2.0	W0.1	L0.7	C0.4	B0.2	17.7
4.0	0.5	2.9	64	2.5	2.1	6.5	178	0	0	75	1.7	1.5	0.5	1.2	H0.1	0.7	0.0	S0.7	1.9	1.3	0.9	0.8	S1.8	C1.1	L0.8	C1.1	C0.2	20.2
3.8	0.3	-0.5	63	-0.3	2.5	6.2	177	0	0	74	1.1	0.1	-0.3	0.7	H0.3	-0.3	S0.4	S0.2	0.8	0.5	0.5	1.1	S1.4	C0.9	S0.3	C0.3	C0.2	15.8
3.6	-1.4	0.0	56	0.2	0.6	5.2	176	0	0	71	1.7	0.4	0.1	0.1	H0.8	0.3	P0.8	S0.9	2.5	1.6	0.1	0.5	S2.8	C1.0	L0.4	C0.2	B0.1	26.4
4.3	2.1	0.0	65	0.0	0.2	6.1	176	0	0	76	2.2	1.2	0.4	0.8	L0.1	0.9	P0.1	S0.9	2.7	1.9	0.6	0.0	S2.6	C0.6	S0.1	C1.4	C0.4	25.3
3.8	-0.3	1.7	62	2.4	2.8	6.2	175	0	0	74	1.4	1.2	1.0	0.3	L0.3	0.6	S0.1	S0.6	2.4	1.2	0.2	0.3	S2.2	W0.5	L1.0	C0.2	C0.4	18.8
3.4	-1.6	0.1	60	0.7	1.7	5.4	174	0	0	73	1.6	1.1	0.3	0.9	L0.1	0.3	P0.3	S0.8	1.3	1.7	0.7	0.4	S1.5	W0.1	L0.5	0.0	C0.5	15.5
4.8	1.8	1.7	62	2.3	3.6	5.2	174	0	0	73	1.2	1.4	1.0	0.7	0.0	0.6	0.0	S0.3	0.6	0.7	0.5	0.7	S0.6	C1.1	L0.5	C0.5	B0.1	9.6
3.7	-0.3	1.0	62	1.6	2.3	5.7	174	0	0	74	1.3	0.6	0.7	0.8	H0.4	0.7	S0.4	L0.1	1.3	1.1	0.6	0.6	S0.7	C0.7	L0.5	C1.2	B0.2	12.2
4.2	1.9	0.0	67	-0.4	2.4	8.1	174	0	0	77	1.1	0.1	-0.6	0.6	L1.0	-0.3	S0.7	S0.3	1.2	0.7	0.4	0.4	S1.5	C1.3	0.0	C1.3	C0.3	15.2
3.7	1.0	1.1	62	1.2	2.4	6.0	173	0	0	74	1.2	1.4	0.7	0.4	L1.1	0.4	S0.6	S0.2	0.9	1.0	0.3	1.1	S1.3	W0.2	L0.6	C0.7	C0.3	14.1
3.1	-1.6	-2.3	66	-3.0	-0.5	7.0	173	0	0	76	2.2	2.2	1.0	1.8	H0.6	1.3	P0.5	S1.2	2.5	2.0	1.4	0.3	S1.9	C0.6	L0.4	C0.4	C0.1	22.3
4.1	0.6	0.8	63	1.8	2.7	6.3	173	0	0	75	1.3	0.3	0.3	0.4	L0.3	0.0	P0.5	S0.7	2.1	1.3	0.3	0.0	S2.0	W0.5	L0.2	C0.1	B0.1	17.4
4.9	2.4	2.0	38	3.1	4.6	2.7	173	0	0	56	0.9	0.3	-0.3	0.2	H1.0	0.3	P0.4	S0.6	1.8	0.3	0.2	-0.3	S2.2	C1.1	S0.8	C0.5	C0.1	17.3
5.3	1.7	-0.5	65	0.2	0.7	6.1	173	0	0	76	1.8	1.4	0.3	0.6	L0.1	0.8	P0.5	S1.3	2.4	1.3	0.5	0.2	S2.6	C0.9	L0.4	C1.4	C0.4	23.2
2.8	-0.2	-1.0	65	-0.3	1.6	6.9	172	0	0	76	1.5	0.3	0.4	1.7	H0.5	0.6	0.0	S0.5	1.6	1.3	1.3	0.7	S1.0	C0.6	L0.4	C1.1	C0.2	15.4
5.7	2.5	1.4	59	1.2	2.0	7.3	172	0	0	73	2.0	1.3	0.0	0.8	L1.1	0.1	S0.1	S0.4	1.9	2.2	0.6	0.2	S2.4	W0.1	L0.2	C0.9	B0.5	22.3
5.8	3.2	0.8	58	1.6	2.3	6.7	172	0	0	73	1.7	0.1	0.1	0.9	H0.6	0.4	P0.9	S0.7	2.2	1.2	0.6	0.2	S2.4	C0.8	S0.2	C0.7	B0.5	22.3
3.4	1.0	0.1	55	0.6	2.4	4.9	171	0	0	71	0.5	0.4	0.2	0.2	H0.1	0.2	S0.2	S0.3	0.7	-0.4	0.2	0.4	S1.4	C0.6	S0.6	C0.5	B0.2	10.5
6.6	2.7	1.9	64	2.7	4.1	7.7	171	0	0	76	1.8	1.3	0.5	0.6	L0.1	0.4	P0.3	S1.1	2.5	1.1	0.4	0.9	S3.2	C1.0	S0.2	C0.2	C0.6	29.4
5.0	2.5	0.5	63	0.6	2.8	6.6	170	0	0	74	2.3	0.9	0.7	0.8	L0.4	0.7	P0.6	S1.0	2.9	2.3	0.6	0.8	S2.9	C0.4	L0.3	C0.6	B0.3	30.4
2.0	-1.0	-1.8	61	-2.6	0.6	4.9	169	0	0	72	0.8	0.2	0.1	0.6	L0.7	-0.1	S0.1	L0.1	0.5	-0.5	0.4	0.4	S0.5	C1.7	S0.7	C1.1	C0.7	7.3
2.9	-1.7	-0.5	57	-0.7	-0.3	5.5	169	0	0	72	1.4	1.3	0.3	0.8	H1.2	0.8	P1.4	S1.5	2.0	1.0	0.6	0.2	S2.0	C0.9	L0.6	C0.2	B0.1	18.3
2.6	0.1	-1.5	58	-0.3	2.1	6.6	169	0	0	73	1.5	1.1	0.3	0.8	L1.2	-0.2	S0.1	L0.5	0.7	1.5	0.6	0.6	S1.1	W0.2	L0.2	0.0	C0.1	12.6
4.5	1.4	-1.0	61	0.2	4.5	5.5	169	0	0	73	1.4	0.1	0.5	0.8	L0.3	-0.1	0.0	S0.1	0.6	0.7	0.6	0.7	S0.6	C0.2	L0.4	C1.0	B0.1	8.6
4.4	0.9	1.3	59	0.8	1.5	4.8	169	0	0	72	1.1	0.3	0.2	0.1	H0.1	0.1	S0.6	L0.3	1.8	1.2	0.1	0.7	S1.6	C0.3	L0.1	C0.3	B0.1	18.3
3.1	0.5	-0.8	66	-0.6	1.0	7.1	169	0	0	76	1.5	0.0	0.3	0.8	L0.1	0.2	P0.2	S0.6	1.2	1.1	0.6	0.3	S0.9	C0.1	L0.6	C0.5	C0.1	10.7
4.1	1.9	1.1	60	2.0	2.8	4.5	169	0	0	73	0.7	-0.1	-0.2	0.0	L0.4	-0.3	S0.1	0.0	0.7	0.0	0.0	0.1	S1.2	W0.3	0.0	C1.1	0.0	7.4
5.8	2.2	2.6	63	3.0	4.3	6.4	169	0	0	74	1.8	1.8	1.5	0.3	L0.2	0.9	P0.2	S1.0	2.4	1.2	0.2	0.9	S2.5	C0.5	L0.8	C0.6	C0.1	24.0
5.7	2.6	2.6	62	2.4	3.8	5.4	169	0	0	74	1.8	1.4	0.1	0.9	L0.5	0.5	S0.6	S1.1	1.9	1.3	0.7	0.2	S2.9	W0.1	0.0	C0.6	C0.3	22.5
1.2	-3.5	-3.1	67	-2.8	0.5	7.2	166	0	0	77	1.9	1.5	1.0	1.7	L0.8	0.4	P0.4	S0.5	1.0	1.7	1.3	0.5	S0.9	W0.4	L0.5	C0.3	B0.1	12.1
4.3	2.2	1.1	64	1.2	2.2	6.3	166	0	0	76	1.5	1.1	0.2	1.2	L0.6	0.3	S0.5	S0.7	0.8	1.2	0.9	1.1	S1.2	C0.6	L0.3	C0.9	C0.1	15.4
5.4	1.6	2.6	46	1.8	2.1	2.2	166	0	0	57	0.8	1.4	0.9	0.1	L0.1	0.5	P0.2	S0.8	1.8	0.6	0.0	0.4	S2.3	W0.1	L0.3	C0.2	C0.3	17.9
5.4	2.6	1.5	61	2.9	4.2	5.3	166	0	0	73	2.0	1.9	0.8	0.9	0.0	0.7	P0.5	S1.1	3.0	1.9	0.6	0.5	S3.6	C0.8	L0.1	C0.2	0.0	32.5
3.7	0.3	-0.8	62	-0.4	2.1	5.8	165	0	0	74	1.9	1.6	1.1	1.3	0.0	0.9	P0.1	S0.9	2.1	1.7	1.0	1.1	S2.0	C0.6	L0.4	C0.4	B0.1	23.9
4.2	0.5	-2.0	61	-2.0	0.6	7.6	165	0	0	75	2.4	1.7	0.7	1.8	0.0	1.1	P0.6	S0.6	2.1	2.4	1.3	1.0	S2.5	C0.4	S0.4	C0.8	0.0	28.6
4.1	1.6	1.2	61	1.3	3.2	5.9	165	0	0	74	1.9	1.2	0.8	0.5	L0.4	0.3	S0.6	S0.7	2.7	1.6	0.4	0.6	S2.9	C0.5	L0.4	C0.3	B0.2	27.2
3.9	-0.8	2.7	59	3.0	1.9	6.3	165	0	0	73	1.6	1.3	-0.4	1.3	L0.9	-0.2	S0.3	S0.1	0.9	2.3	1.0	1.0	S1.0	C0.6	L0.6	C0.5	C0.3	16.8
4.7	2.0	2.5	60	3.2	5.2	5.3	165	0	0	73	1.0	1.0	0.6	-0.2	H0.6	0.7	P0.7	S1.0	2.0	0.5	-0.2	0.3	S2.6	W0.5	L0.3	C0.5	C0.3	18.7
3.6	2.0	-0.5	64	-0.3	3.1	7.4	164	0	0	75	2.2	2.4	0.9	1.6	L0.5	0.9	P0.4	S1.0	2.1	2.3	1.2	0.6	S2.3	C0.1	L0.5	C0.6	B0.3	24.1
3.5	0.8	0.1	66	0.2	1.7	7.2	164	0	0	77	2.1	0.7	1.0	1.1	H0.8	1.0	P0.4	S0.9	2.3	2.0	0.9	0.9	S1.8	C1.0	L0.4	C0.6	B0.2	24.0
2.2	-0.5	-0.4	65	-1.3	0.1	6.3	163	0	0	76	1.0	0.8	0.5	0.8	L0.6	0.4	S0.6	S0.3	1.0	0.7	0.6	0.6	S0.8	C1.2	L0.6	C0.9	0.0	11.2
2.8	-0.6	-1.2	63	-2.0	-0.2	5.0	163	0	0	74	2.2	1.4	0.2	1.5	L0.6	0.8	P0.6	S0.7	2.3	1.7	1.1	0.4	S2.8	C1.5	S0.9	C1.3	C0.1	28.5
3.9	1.2	0.6	67	0.7	2.5	7.9	163	0	0	76	1.6	1.7	0.0	1.4	L0.6	0.5	P0.1	S1.0	1.1	1.4	1.0	0.7	S2.1	C0.1	L0.4	C0.7	C0.3	18.5
3.8	-0.6	0.6	56	1.1	0.7	5.5	161	0	0	71	1.8	1.2	0.2	0.8	H0.4	0.5	P0.6	S0.7	2.4	1.9	0.6	0.6	S2.3	C1.2	L0.7	C0.5	C0.3	24.8
2.5	0.7	-1.6	51	-0.8	0.7	4.4	161	0	0	70	1.4	0.9	0.7	-0.2	L0.7	0.2	P0.3	S0.4	1.6	0.8	-0.1	0.2	S2.2	W0.3	L0.5	W0.3	C0.3	16.1
2.9	1.4	-0.4	65	-1.0	0.8	7.0	161	0	0	76	1.9	1.0	-0.2	1.2	L0.8	0.3	P0.1	S0.7	1.7	2.0	0.9	0.7	S2.1	C0.5	L0.2	C0.9	C0.3	22.6
4.1	2.7	1.4	64	1.4	3.6	6.6	161	0	0	75	1.8	1.8	0.7	0.4	L0.8	0.3	S0.6	S1.1	2.8	1.3	0.3	0.7	S3.5	C1.2	L0.5	C0.5	C0.5	30.5
2.3	-2.4	0.4	54	0.3	-0.2	4.5	160	0	0	70	1.4	1.2	-0.1	0.5	H0.2	0.3	P0.7	S0.6	1.7	1.3	0.4	0.4	S2.1	C0.4	L1.2	C0.2	B0.1	17.8
3.7	0.1	0.6	52	0.6	1.7	4.2	160	0	0	69	1.1	1.2	0.9	-0.4	L0.6	0.6	P0.4	S0.3	1.7	1.2	-0.3	0.6	S2.3	W0.4	L1.6	C0.3	B0.1	17.4
3.3	0.4	-0.1	63	0.0	1.1	5.9	159	0	0	75	1.0	0.2	0.6	0.3	L0.1	0.3	P0.5	S0.5	1.9	0.6	0.3	0.3	S1.9	W0.1	L0.5	C0.1	B0.1	15.8
2.7	-0.2	1.2	63	1.7	2.8	5.7	159	0	0	74	0.8	0.7	0.5	0.7	L0.3	0.0	S0.8	L0.6	0.8	1.2	0.5	0.4	S0.4	0.0	L0.4	C0.5	C0.2	8.2

Generation Count 3 or GC 4-6 with BBR 93 and Lower: Genomic Tested (G) Bulls by JPI
August 2018

ST	Name of Bull	Registration Number	GT	BBR	JH1	NAAB Code	No. Hrds	No. Daus	REL %	Milk	% Fat	Fat	% Prot	Prot	CM$	NM$	FM$	GM$	SCS
G	JX ALL LYNNS MARLO VOTER {3}-ET	USA 119534407	99K	100	F	29JE4049			77	608	0.25	79	0.10	43	591	550	461	443	2.95
G	JX BLUE MIST MILO {3}-ET	USA 119755044	99K	100	F	14JE767			77	920	0.11	67	0.03	40	566	545	500	452	2.96
G	JX ALL LYNNS AVON RANSOM {3}	USA 119874381	99K	100	F	551JE1707			75	743	0.01	38	0.03	32	511	493	455	465	2.89
G	JX SEXING AVON BROCK {3}-ET	840003132350035	99K	93	F	551JE1684			75	1288	-0.08	45	-0.01	45	496	483	458	418	2.90
G	JX CROSSWIND ALTASKYHIGH {3}-ET	840003142511752	99K	100	C	11JE1347			74	1242	-0.10	39	-0.02	40	482	477	466	457	2.95
G	JX ROWLEYS ALTALEMOR {3}-ET	USA 067792215	99K	91	F	11JE1330			74	1166	-0.09	36	-0.03	35	482	477	471	472	2.79
G	JX SEXING AVON WOODROW {3}-ET	840003132350056	99K	92	F	551JE1673			74	1581	-0.16	42	-0.02	53	493	483	464	440	3.00
G	JX FOREST GLEN AVON JARGON {3}	USA 067650225	99K	100	F	551JE1708			75	629	0.01	32	0.04	30	485	462	416	443	2.79
G	JX FARIA BROTHERS FIGO {3}-ET	840003135124340	99K	100	F	7JE1602			75	1695	-0.12	54	-0.04	53	488	483	475	445	2.97
G	JX DUPAT JLS AVON HARAMBE {3}-ET	840003127607531	99K	88	C	7JE1583			73	1607	-0.11	52	-0.04	50	504	499	490	444	2.92
G	JX AARDEMA BRANCH {3}	840003012316414	99K	93	F	1JE1040			75	1386	-0.16	32	-0.04	41	479	477	476	470	2.90
G	JX AARDEMA ALTAAPLUS {3}	840003012659207	99K	100	F	11JE1355			75	1257	-0.09	40	-0.03	38	487	484	478	453	2.86
G	JX SEXING MARLO PATRON {3}-ET	840003123614852	99K	100	F	551JE1658			76	547	0.20	66	0.08	36	516	482	410	433	2.89
G	JX D&E AVON PECOS {3}	840003131651304	99K	100	F	7JE1565			75	1216	-0.04	50	0.02	47	508	490	453	429	2.98
G	JX FARIA BROTHERS SUAREZ {3}	840003126052156	50K	93	C	200JE1083			75	517	0.20	65	0.09	37	548	509	427	417	2.80
G	JX AARDEMA APPROACH {3}	840003012659001	99K	100	F	1JE1028			75	780	0.13	64	0.00	29	566	554	530	492	2.86
G	JX SEXING AVON TIPPER {3}-ET	840003132350177	99K	91	C	551JE1677			75	1118	-0.01	50	0.01	42	505	489	457	457	2.93
G	JX FARIA BROTHERS PELE {3}	840003126052040	99K	90	F	200JE914			75	1010	0.02	53	-0.02	32	510	503	490	420	2.78
G	JX SEXING AVON BOYT {3}-ET	840003132350169	99K	100	F	551JE1672			76	1532	-0.19	33	-0.03	48	477	471	461	396	2.90
G	JX OAK LANE DISCOVERY {3}-ET	USA 067742192	99K	100	F	97JE171			76	960	-0.04	38	0.00	34	483	474	454	450	2.96
G	JX SEXING AVON BOOTS {3}-ET	840003132350064	99K	88	F	551JE1662			74	1622	-0.18	39	-0.06	45	463	467	480	430	2.97
G	JX FARIA BROTHERS CAMPEONE {3}	840003126051887	99K	92	C	14JE707			77	1022	-0.07	33	-0.02	33	486	477	463	413	2.80
G	JX CAL-MART AVON PAVIT 4521 {3}	USA 067384521	99K	100	F	14JE768			75	1769	-0.18	45	-0.04	56	489	484	475	466	3.03
G	JX SEXING AVON PULSAR {3}-ET	840003132350041	99K	100	F	551JE1669			76	1664	-0.16	45	-0.05	50	464	463	462	429	2.98
G	JX AARDEMA VANDRELL REEF {3}	840003012658892	99K	93	F	1JE985			75	1155	0.01	58	0.02	45	518	498	458	428	2.88
G	JX ROWLEYS MARLO STRIKE {3}	USA 067322177	13K	100	F	97JE151			75	732	0.17	69	0.07	40	551	522	458	438	2.99
G	JX AJ ZEKE {3}-ET	USA 067693234	99K	100	F	29JE4090			76	941	0.03	51	0.02	38	481	463	427	428	2.93
G	JX SUN VALLEY AVON CORONA {3}-ET	USA 119758711	99K	100	F	97JE163			75	1427	-0.11	44	-0.03	45	464	458	448	408	2.91
G	JX AARDEMA EVERLASTING {3}	840003009543945	99K	93	F	1JE1048			75	1099	0.04	61	-0.04	31	536	539	545	498	2.99
G	JX SEXING AVON ZARKO {3}-ET	840003132350050	99K	92	F	551JE1674			75	1185	-0.16	23	-0.01	40	442	433	415	408	2.92
G	JX CO-OP CARPDIEM {3}	840003012658984	99K	91	F	1JE999			74	918	0.02	48	0.01	35	461	445	414	416	2.85
G	JX FARIA BROTHERS REGENCY PJ BROWN	840003135124164	99K	90	F	14JE765			76	1784	-0.17	48	-0.03	57	477	472	462	397	3.05
G	JX FARIA BROTHERS GRIEZMANN {4}	840003135124238	99K	89	F	1JE991			70	1779	-0.10	64	-0.05	54	515	514	514	406	3.04
G	JX SEXING AVON BURRO {3}-ET	840003132350183	99K	100	F	551JE1671			76	1470	-0.16	36	-0.05	43	443	441	440	387	2.85
G	JX AARDEMA MARLO ANTERO {3}	840003012658868	99K	100	F	1JE977			75	893	0.18	80	0.03	39	532	514	473	458	3.06
G	JX STEINHAUERS ROLLINS {3}-ET	USA 119723742	99K	100	F	200JE1109			77	475	0.19	60	0.07	31	507	482	425	446	3.08
G	JX STEINHAUERS ALTARAZZLES {3}-ET	USA 119723694	99K	100	F	11JE1327			77	915	0.03	49	0.02	38	476	460	423	447	3.03
G	JX AARDEMA SOARING {3}	840003012658917	99K	93	F	200JE1092			75	899	0.07	57	0.03	38	483	462	418	420	2.85
G	JX AHLEM RUFIO {3}	USA 074067757	99K	92	F	200JE1080			75	964	0.03	51	-0.04	26	485	483	484	392	2.69
G	JX AARDEMA VARELLO {3}	840003012659032	99K	89	F	1JE1037			74	1472	-0.14	41	-0.05	42	457	460	467	458	2.98
G	JX FOREST GLEN SEA BREEZE {3}	USA 067609937	99K	93	F	29JE4034			75	502	0.11	46	0.02	22	470	454	421	391	2.75
G	JX AVI-LANCHE ALTAAGILE {3}	840003131652148	99K	91	F	11JE1344			74	904	0.08	59	-0.01	31	491	482	464	466	2.88
G	JX FARIA BROTHERS CAFU {3}	840003126052218	99K	91	C	551JE1652			74	1636	-0.16	44	-0.02	55	432	422	402	402	3.02
G	JX FARIA BROTHERS MULLER {3}	840003126052176	50K	92	F	200JE1081			75	1127	0.00	53	-0.02	37	488	482	469	409	2.95
G	JX WAUNAKEE PATTERN {3}-ET	USA 073596587	99K	93	F	200JE1087			77	1028	0.02	54	-0.03	31	466	465	463	440	2.97
G	JX TLJ LEONEL BREAKER {4}-ET	USA 067100548	99K	89	F	14JE726			75	1510	-0.12	46	-0.02	49	481	471	452	383	2.81
G	JX SEXING AVON CHAMBER {3}-ET	840003132350009	99K	100	F	551JE1675			76	1180	-0.09	37	-0.01	41	442	433	415	403	3.04
G	JX CROSSWIND LANDING {3}-ET	840003134421669	50K	100	F	200JE1093			76	1235	-0.08	41	-0.02	41	443	434	417	347	2.89
G	JX AARDEMA ZEBULON {3}	840003012658925	99K	100	F	200JE1096			76	1113	-0.14	23	-0.03	33	420	416	410	369	2.78
G	JX SCHOENE-KUH A NICHOLAS {3}-ET	USA 119805132	99K	100	F	14JE770			76	1732	-0.19	41	-0.04	53	414	412	408	364	2.98
G	JX AARDEMA FEARLESS {3}	840003012658969	99K	100	F	1JE998			76	977	-0.02	42	0.02	40	440	422	385	416	3.00
G	JX FARIA BROTHERS HESTER {3}	840003135124304	99K	100	F	551JE1706			75	997	0.04	56	0.00	35	450	439	418	409	2.89
G	JX AARDEMA UPSTREAM {3}	840003012658911	99K	92	F	200JE1091			75	1087	-0.09	33	-0.03	33	425	421	414	401	2.83
G	JX AARDEMA FINDER {3}	840003012658889	99K	92	F	200JE1090			75	1151	-0.07	40	0.01	44	415	397	361	368	2.90
G	JX GENERATIONS AVON CLIMAX {3}-P-ET	USA 067359526	99K	93	F	29JE4095			76	1327	-0.15	32	-0.04	40	413	412	411	365	2.99
G	JX SHOT OF NAT AMBITION {4}-P	USA 067274784	99K	91	F	200JE1067			76	1027	-0.03	42	0.01	40	439	421	385	335	2.88
G	JX HI-LAND VANDRELL FRODO {3}	USA 067388448	99K	93	F	1JE961			76	804	0.04	46	0.05	40	463	436	378	399	2.94
G	JX SCHULTZ CLARENCE {3}	USA 119736881	99K	92	F	200JE1108			75	1531	-0.18	35	-0.07	40	408	411	424	354	2.72
G	JX CROSSWIND CROSBY {3}-ET	840003134421672	99K	100	F	200JE1103			76	877	-0.09	23	0.01	33	392	376	346	330	2.78
G	JX AARDEMA CONTENDER {3}	840003012658912	99K	100	F	1JE992			75	1564	-0.20	32	-0.05	45	391	391	394	355	2.87
G	JX AHLEM DENTINE {3}-ET	USA 067823081	50K	92	F	14JE749			75	1185	-0.11	33	-0.03	37	413	409	401	357	2.91
G	JX SEXING MARLO POPEYE 61036 {3}-ET	840003010364783	99K	100	F	551JE1646			77	851	0.05	51	0.01	32	437	425	401	365	2.96
G	JX SEXING AVON BOWIE {3}-ET	840003132350219	99K	91	F	551JE1665			74	1378	-0.14	36	-0.07	35	406	415	436	371	2.95
G	JX AARDEMA SUMMERSET {3}	840003012658900	99K	100	F	200JE1095			76	1606	-0.22	29	-0.05	47	401	401	402	338	2.92
G	JX HIGHVIEW NAPOLEAN {3}-ET	840003130020247	50K	91	F	14JE764			75	953	-0.14	17	0.00	34	337	326	305	296	2.92
G	JX AARDEMA VAGABOND {3}	840003012658942	99K	87	F	200JE1097			70	1403	-0.27	10	-0.09	32	331	345	378	339	2.90
G	JX SEXING GOLDBRICKP 60877 {4}-P-ET	840003010364624	13K	92	C	551JE1644			75	764	-0.07	21	0.02	32	319	304	273	253	3.02

Generation Count 3 or GC 4-6 with BBR 93 and Lower: Genomic Tested (G) Bulls by JPI
August 2018

PL	LIV	DPR	DPR REL	CCR	HCR	EFI	JPI	Type Hrds	Type Daus	Type REL	FS	ST	SR	DF	RA	RW	RL	FA	FU	RH	RUW	UC	UD	TP	TL	RTP RV	RTP SV	JUI
2.9	1.5	-1.8	67	-1.4	2.1	8.0	159	0	0	77	1.1	0.9	-0.2	1.2	L0.9	0.2	S0.4	S0.2	0.6	1.1	0.9	0.1	S0.6	W0.8	L0.8	C0.6	C0.6	5.5
4.3	1.6	-0.7	67	-1.7	1.5	7.8	159	0	0	77	1.8	2.2	0.6	0.6	L1.3	0.9	0.0	S1.2	2.4	1.6	0.4	0.2	S3.1	C0.2	L0.3	C1.3	C0.3	25.5
5.9	2.9	1.8	64	2.3	3.6	7.0	159	0	0	75	1.7	0.7	0.5	-0.1	H1.0	0.9	P0.7	S0.7	3.4	1.2	-0.1	0.5	S3.6	0.0	L0.6	C0.3	0.0	29.9
3.2	1.4	-0.6	63	-0.4	3.0	6.5	158	0	0	75	2.1	0.7	0.4	1.2	H0.6	0.8	P0.8	S1.2	3.0	2.2	0.9	0.7	S2.7	C0.7	L0.4	C0.6	B0.3	29.4
4.7	1.8	1.7	62	2.1	3.9	5.8	158	0	0	74	1.7	0.5	0.3	0.0	H0.4	0.2	P0.2	S0.4	2.7	1.0	0.0	0.6	S3.3	C0.7	L0.1	C0.9	C0.1	28.1
5.2	2.1	2.2	59	3.7	4.6	4.9	158	0	0	72	1.5	1.3	0.5	0.1	H0.1	0.4	P0.2	S0.7	2.5	1.1	0.1	0.4	S2.8	C0.1	L0.2	C0.4	C0.2	23.9
3.8	1.0	0.6	60	1.3	2.2	5.1	157	0	0	72	1.3	0.8	1.0	0.1	H0.6	0.8	P0.5	S0.9	2.3	1.2	0.1	0.9	S2.7	C0.3	L0.8	W0.1	0.0	24.3
5.7	2.1	2.1	60	1.9	2.1	5.4	157	0	0	73	1.7	1.1	0.2	0.5	H0.3	0.3	P0.2	S0.8	2.5	1.6	0.4	0.8	S3.7	W0.2	0.0	C0.3	B0.1	30.7
2.7	0.0	0.6	61	0.9	1.9	5.6	156	0	0	74	1.2	0.8	0.3	0.5	L0.7	-0.2	S0.7	L0.2	1.1	1.2	0.4	0.9	S1.6	W0.5	L1.0	C0.2	C0.4	14.7
3.7	1.2	0.3	56	1.2	1.6	4.1	156	0	0	70	1.2	1.2	0.8	0.6	L0.2	0.2	S0.2	S0.2	1.6	1.0	0.5	0.6	S1.5	C0.1	L0.4	C0.5	C0.2	15.8
5.4	2.5	2.3	62	3.8	4.1	6.0	156	0	0	73	1.2	0.5	0.0	0.6	L0.5	0.0	S0.2	L0.1	1.3	1.2	0.4	0.4	S1.7	W0.1	L0.2	W0.1	0.0	15.6
4.9	1.4	1.0	63	2.3	4.5	6.5	156	0	0	74	1.7	0.6	0.0	1.2	L0.2	0.3	0.0	S0.8	1.7	1.7	0.9	0.7	S2.1	0.0	S0.1	C0.2	C0.2	21.7
3.1	-2.2	-0.1	67	0.2	0.5	8.2	155	0	0	76	2.1	0.8	-0.2	1.2	H0.5	0.7	P0.3	S0.7	2.5	1.7	0.9	0.4	S2.1	C0.9	0.0	C1.1	C0.2	23.7
4.1	1.4	-0.1	60	1.5	2.7	5.1	154	0	0	73	1.4	1.0	1.3	0.1	H0.1	1.0	P0.6	S0.7	2.5	0.5	0.1	0.3	S2.7	C0.9	L0.3	0.0	C0.3	22.3
4.3	0.9	-0.9	62	-1.2	1.8	5.8	154	0	0	74	1.1	0.5	0.7	0.3	H0.5	0.6	P0.6	S0.7	1.8	0.3	0.2	0.4	S1.2	C1.2	S0.3	C0.5	C0.1	14.9
6.0	2.3	0.9	64	0.7	2.4	6.1	154	0	0	75	1.4	1.4	0.3	0.5	L0.1	0.7	P0.1	S0.9	1.2	0.9	0.4	0.5	S1.9	0.0	L0.5	C1.3	C0.1	15.5
4.0	1.4	1.4	61	0.9	2.4	5.4	153	0	0	73	1.2	1.0	0.9	0.1	L0.4	0.4	P0.2	S0.6	1.9	0.9	0.1	0.5	S2.1	C0.2	L0.5	C0.8	C0.2	18.6
4.9	2.5	-0.5	63	-0.5	3.3	5.9	153	0	0	74	2.2	2.5	0.8	0.8	L0.3	1.0	P0.4	S0.9	2.6	1.6	0.6	0.8	S3.1	C0.6	S0.3	C1.0	C0.2	29.9
4.5	2.1	-0.7	65	0.2	2.6	7.8	152	0	0	76	2.0	1.6	0.7	1.2	L0.5	0.9	P0.7	S1.3	2.7	2.3	0.9	0.4	S2.9	0.0	L0.3	C0.6	B0.3	27.8
5.5	2.3	1.7	64	2.5	3.7	7.5	152	0	0	76	1.7	1.2	0.5	0.8	H0.5	0.6	S0.1	S0.9	2.4	0.9	0.6	0.8	S2.6	C1.0	S0.4	C0.2	C0.6	25.9
4.4	1.5	1.0	59	0.9	3.4	5.1	151	0	0	72	1.4	1.5	0.7	0.2	L0.2	0.5	0.0	S0.7	2.3	1.3	0.2	0.9	S3.1	C0.2	S0.1	C0.4	B0.2	27.7
5.9	3.0	0.3	65	0.6	2.4	7.1	151	1	1	77	2.1	0.9	-0.1	0.8	H0.1	0.4	P0.9	S0.8	2.9	2.1	0.6	0.0	S3.1	C0.2	L0.1	C0.9	C0.5	27.8
3.5	0.8	1.8	62	2.0	1.2	5.9	149	0	0	74	1.2	1.7	1.2	0.9	L0.1	0.7	0.0	S0.5	1.1	0.7	0.6	0.3	S0.7	W0.3	L0.9	W0.1	C0.5	7.5
3.6	-0.2	1.0	65	0.4	1.6	7.2	149	0	0	75	1.4	0.9	0.1	1.0	L0.5	-0.2	S0.2	L0.1	1.2	1.3	0.8	0.8	S1.4	0.0	L0.6	C0.8	0.0	15.3
3.6	1.8	-0.1	63	-0.4	2.3	6.1	149	0	0	74	1.5	1.8	1.1	1.3	L0.7	1.0	S0.5	S0.4	0.4	0.6	1.0	0.8	S0.4	C0.4	0.0	C1.0	C0.4	8.3
3.5	0.8	-0.9	65	-1.0	1.5	7.7	149	0	0	76	1.5	0.4	-0.2	1.5	L0.3	0.5	P0.1	S0.8	0.7	1.4	1.2	0.6	S0.1	C0.1	L0.5	W0.3	C0.5	7.9
3.1	1.2	0.6	66	1.0	2.9	7.5	149	0	0	77	1.7	0.3	-0.1	1.3	L0.4	-0.2	S0.2	S0.5	0.8	1.2	0.9	1.1	S0.8	C0.5	S0.3	C1.4	C0.3	14.5
4.5	1.4	0.7	63	0.9	2.3	6.5	148	0	0	75	1.0	0.8	0.7	0.2	L0.9	0.3	S0.9	L0.5	1.4	0.7	0.2	1.0	S1.3	C0.8	L0.1	C0.8	C0.3	16.4
4.7	2.9	1.1	60	1.8	3.7	4.8	148	0	0	72	1.7	1.5	0.5	1.0	H0.2	0.9	P0.8	S1.3	1.6	1.1	0.7	0.4	S1.6	C0.5	L0.3	C1.3	C0.1	16.4
5.0	2.3	1.5	63	1.7	1.8	6.1	147	0	0	75	1.2	0.2	-0.3	0.0	H0.8	0.6	P1.0	S0.9	2.7	1.1	0.0	0.3	S3.6	C0.2	L0.5	C0.5	C0.4	27.3
4.0	-1.5	0.6	59	1.0	4.6	4.7	147	0	0	71	1.6	0.0	0.6	0.6	H0.4	0.5	P0.4	S0.7	2.9	1.3	0.5	0.6	S2.4	C0.8	L0.6	C0.4	C0.4	24.8
3.4	-0.4	-1.1	62	0.5	2.1	6.5	146	0	0	75	1.9	2.2	0.6	1.5	L0.6	0.7	P0.1	S0.4	1.1	2.3	1.2	0.7	S0.9	C0.4	L0.3	W0.6	0.0	16.0
2.6	1.7	-1.8	51	-1.7	0.1	2.5	146	0	0	63	1.3	2.3	1.2	0.5	L0.2	0.9	P0.9	S0.9	2.3	1.2	0.3	-0.1	S2.2	C1.0	L0.4	C0.5	C0.2	19.8
3.6	1.3	-0.2	64	0.8	2.9	7.1	146	0	0	75	2.2	1.6	0.5	1.0	L1.3	0.5	P0.2	S0.7	2.1	2.6	0.8	0.7	S2.4	C0.1	0.0	C0.6	B0.3	26.4
2.0	-0.4	0.1	63	-0.7	-0.8	5.2	146	0	0	74	1.4	0.7	0.0	0.9	H0.2	0.2	P0.2	S0.6	1.2	0.9	0.7	0.6	S1.0	C0.6	L0.5	C0.9	C0.2	12.6
3.7	-1.1	0.7	68	0.3	-0.2	8.4	146	0	0	78	2.6	1.0	-0.4	1.4	H1.0	0.7	P0.5	S1.4	2.8	2.5	1.1	0.0	S3.0	C0.8	S0.4	C1.8	B0.3	29.7
3.2	-0.4	1.4	65	1.8	1.0	6.4	145	0	0	77	2.2	0.7	-0.2	1.1	H0.4	0.4	P0.3	S1.2	2.0	2.1	0.8	0.1	S1.9	C1.0	0.0	C1.8	B0.3	21.4
2.7	1.4	0.4	60	1.1	3.5	4.9	145	0	0	72	0.6	0.3	0.3	-0.2	L0.2	0.1	P0.1	S0.1	0.8	0.4	-0.1	0.3	S1.2	W0.4	0.0	C0.5	C0.3	9.3
5.9	1.9	-0.6	62	-0.5	2.0	6.8	145	0	0	75	1.7	0.8	0.4	0.4	H0.8	0.7	P0.5	S0.5	2.6	0.7	0.3	0.4	S2.9	C1.7	S0.5	C1.1	C0.2	26.7
3.2	3.0	2.1	59	3.0	4.8	5.3	143	0	0	71	1.4	2.1	0.6	0.9	L0.1	1.0	S0.3	S0.2	1.4	0.9	0.7	-0.2	S1.4	W0.4	L0.1	C0.5	C0.4	11.3
5.3	1.8	0.0	61	0.6	3.4	6.7	143	0	0	75	1.9	1.1	0.3	0.7	H0.5	0.7	P0.2	S0.6	2.6	1.1	0.5	0.3	S3.3	C1.0	S0.5	C0.9	C0.2	28.3
3.4	1.0	1.6	60	1.7	3.6	5.0	142	0	0	73	1.3	1.0	0.3	0.7	L0.5	0.3	S0.1	S0.6	0.9	0.8	0.5	0.1	S1.3	W0.6	L0.5	C0.2	C0.2	9.4
1.5	1.4	0.6	58	2.3	5.4	4.3	141	0	0	71	0.7	0.9	0.8	1.0	L0.8	0.2	S1.0	L0.4	-0.2	0.3	0.8	0.8	D0.9	C0.7	S0.1	C0.8	C0.5	0.4
4.4	1.5	-0.4	61	0.0	2.6	5.7	140	0	0	73	1.5	1.1	0.6	0.7	H0.1	0.6	P0.7	S0.9	2.1	1.0	0.5	0.3	S2.1	C0.2	L0.2	C0.5	C0.3	19.2
3.1	1.6	1.1	66	1.1	3.1	6.8	140	0	0	77	1.9	0.6	0.5	1.5	H0.6	0.5	P0.1	S0.6	1.4	1.4	1.1	0.9	S1.6	C1.3	L0.1	C1.7	C0.4	19.9
4.5	1.9	-0.7	61	0.1	2.6	5.1	139	0	0	73	1.2	2.9	2.4	0.0	L0.8	1.7	P0.4	S0.4	1.7	1.1	0.0	-0.2	S1.5	C0.3	L0.4	W0.3	B0.2	13.4
4.0	2.0	1.1	64	1.5	3.6	7.1	139	0	0	75	1.3	2.0	0.6	0.1	L0.9	0.5	S0.2	S0.5	1.9	1.3	0.1	0.5	S2.6	W0.2	0.0	C0.2	C0.3	22.1
4.2	1.8	-1.0	63	-0.6	1.2	6.7	138	0	0	75	1.5	0.1	-0.2	0.4	L0.8	-0.2	S0.3	L0.1	1.4	1.2	0.3	1.0	S1.7	C0.5	L0.6	C0.1	C0.3	18.3
5.8	2.6	0.6	65	1.8	3.7	7.4	138	0	0	75	1.5	1.1	-0.1	0.6	L0.8	-0.3	P0.1	S0.7	1.2	1.1	0.5	1.0	S1.9	C0.5	S0.4	C0.6	C0.1	20.0
2.2	0.3	-0.2	64	0.3	2.5	6.8	137	0	0	75	1.1	1.7	0.2	0.9	L1.0	0.0	S0.7	S0.2	0.6	0.6	0.6	0.5	S1.4	C0.3	L0.2	W0.1	C0.2	11.6
3.2	1.5	1.5	64	2.9	5.9	7.0	137	0	0	74	0.7	0.2	0.3	-0.2	L0.9	-0.1	S0.7	L0.5	0.8	0.6	-0.1	-0.4	S1.1	W0.9	L0.2	C0.5	C0.2	5.7
2.7	0.4	0.7	62	1.3	2.5	5.5	137	0	0	74	0.9	-0.6	0.2	0.1	L0.3	-0.3	S0.4	L0.4	1.1	1.0	0.1	0.5	S0.8	C0.1	L0.5	C0.4	C0.2	10.6
4.4	1.8	1.3	61	2.3	4.3	5.4	137	0	0	73	0.9	0.4	-0.6	0.1	H0.6	0.0	P0.7	S0.4	1.4	0.5	0.0	-0.2	S2.0	C0.1	S0.1	C1.0	C0.4	13.8
2.8	-0.3	0.5	63	1.3	2.9	5.9	135	0	0	74	1.3	1.0	0.8	0.7	L0.7	0.1	S0.7	L0.1	1.1	1.2	0.5	0.7	S1.1	C0.2	L0.9	C0.8	C0.2	12.8
4.5	1.8	0.3	62	1.4	3.2	6.1	134	0	0	74	1.5	-0.4	-0.1	0.7	L0.5	-0.3	S0.5	L0.3	1.2	1.3	0.5	1.1	S1.1	C0.4	L0.2	C1.0	C0.1	16.2
3.7	1.1	-1.0	64	-1.2	-0.2	5.9	134	0	0	75	1.6	1.2	0.6	0.1	H0.3	0.9	P0.6	S0.3	2.7	1.6	0.1	-0.1	S3.1	C0.9	L0.1	C0.8	0.0	26.3
3.9	1.0	0.7	65	1.5	4.6	7.4	134	0	0	76	1.0	1.4	0.9	0.6	L0.9	0.3	S0.6	L0.1	0.3	0.7	0.5	0.1	S0.5	W0.7	L0.9	W0.6	B0.1	3.1
3.7	0.8	-0.4	61	0.9	3.2	5.8	133	0	0	74	1.8	1.6	1.3	0.8	L0.3	0.7	P0.4	S0.8	1.8	1.4	0.6	0.8	S1.9	C0.1	L0.5	0.0	0.0	19.8
4.1	1.9	-0.2	64	1.4	4.7	7.0	132	0	0	76	1.9	-0.2	-0.1	0.9	L0.1	0.1	P0.4	S0.3	1.7	1.8	0.7	0.4	S1.4	0.0	S0.5	C0.7	C0.2	18.2
3.2	0.7	0.2	64	1.7	3.8	7.4	131	0	0	75	1.2	0.8	0.3	0.9	H0.1	0.1	S0.5	L0.3	0.8	1.3	0.7	0.8	S0.6	C0.3	L0.9	C0.8	C0.4	10.5
5.1	-0.3	0.2	61	1.1	1.3	6.0	131	0	0	74	2.0	1.9	0.9	0.5	L0.1	0.9	P0.5	S0.8	2.7	1.9	0.4	0.6	S3.2	0.0	L0.3	C0.6	0.0	28.8
3.1	-0.6	-0.6	67	-0.9	1.0	7.7	130	0	0	77	1.7	-0.3	-0.3	1.1	H1.3	0.3	P1.0	S1.0	2.1	1.8	0.8	0.7	S2.1	C0.4	L0.1	C2.2	B0.1	23.2
4.4	1.1	0.3	60	1.0	3.8	5.6	128	0	0	73	1.5	0.2	0.2	0.7	H0.3	0.0	P0.2	S0.3	2.0	1.6	0.5	0.7	S1.7	W0.2	L0.7	C0.4	B0.2	18.9
3.6	2.4	-0.2	64	-0.4	2.5	6.8	127	0	0	74	1.0	0.4	0.0	0.8	H0.2	0.1	S0.5	S0.1	0.7	1.0	0.6	0.5	S0.6	W0.9	L0.4	C0.4	0.0	7.5
3.9	1.0	0.8	61	0.4	1.6	5.9	117	0	0	74	1.4	1.5	0.7	0.0	L0.5	0.8	P0.2	S0.7	2.6	1.5	0.0	0.5	S3.6	C0.4	0.0	C0.4	C0.4	29.8
5.0	2.0	1.9	50	2.8	2.8	3.1	116	0	0	64	1.4	1.9	0.9	0.0	L0.3	0.8	P0.8	S1.1	2.8	1.3	0.0	0.4	S3.4	0.0	S0.5	W0.1	C0.1	28.9
3.9	1.0	0.0	59	-0.5	0.7	5.9	103	0	0	74	1.1	-0.6	-0.5	0.0	L1.1	-0.4	P0.2	L0.8	0.9	1.7	0.0	0.3	S1.2	C1.6	S0.2	C2.1	B0.7	15.8