

# Herd Register or Generation Count 4-6 and BBR 100: Genomic Tested (G) Bulls by JPI December 2018

ST	Name of Bull	Registration Number	GT	BBR	JH1	NAAB Code	No. Hrs	No. Daus	REL %	% Milk	% Fat	% Fat	% Prot	Prot	CM\$	NM\$	FM\$	GM\$	SCS
G	JX FARIA BROTHERS STACKHOUSE {4}-ET	840003144724626	99K	100	F	1JE1106			71	1555	0.06	87	0.04	64	690	658	590	564	2.79
G	JX PEAK ALTAMONTRA (6)-ET	840003140986383	99K	100	F	11JE1369			76	1408	0.09	85	0.08	67	691	651	565	566	3.03
G	PINE-TREE DECADE {6}-ET	USA 067671553	99K	100	F	200JE1163			72	625	0.17	64	0.10	43	697	653	561	586	2.78
G	JX PVF WC ZINC {5}-ET	USA 119966684	99K	100	F	1JE1074			72	594	0.24	77	0.12	45	693	647	547	590	2.88
G	JX AVI-LANCHE VICEROY DASHIELL {6}-ET	840003131412772	99K	100	C	7JE1722			75	1249	0.08	76	0.06	58	702	667	594	610	2.95
G	CAL-MART WESTPORT {6}-ET	USA 067374603	99K	100	F	29JE4117			72	689	0.24	81	0.10	45	707	663	571	579	2.80
G	JX PEAK ALTAATHLETE {6}-ET	840003145378375	99K	100	F	11JE1370			72	784	0.11	60	0.10	49	641	595	497	527	2.75
G	JX FARIA BROTHERS ALTARASHFORD {4}-ET	840003144724346	99K	100	C	11JE1366			76	1516	-0.01	70	0.05	66	646	606	525	484	2.71
G	JX FARIA BROTHERS ALTAZIDANE {4}-ET	840003149514358	99K	100	F	11JE1379			72	997	0.12	72	0.07	50	659	623	547	576	2.83
G	JX FARIA BROTHERS ALTAZIZIC {4}	840003140371297	99K	100	F	11JE1348			76	1386	0.10	87	0.06	63	668	628	546	536	2.79
G	JX KASH-IN GOT JIGGY {6}-ET	840003138463636	99K	100	F	551JE1717			74	1247	0.04	68	0.04	54	650	617	549	529	2.70
G	CO-OP AD WORLD CUP {5}-ET	840003126073776	99K	100	F	1JE935			76	617	0.12	54	0.10	42	637	595	506	564	2.81
G	JX RIVER VALLEY CHIEF {6}-ET	USA 075341195	99K	100	F	200JE10034			73	1417	0.03	73	0.00	51	624	607	574	539	2.88
G	JX FARIA BROTHERS KAWHI {4}	840003144724398	99K	100	F	97JE180			76	1938	-0.10	71	0.02	75	597	562	492	421	2.66
G	JX FARIA BROTHERS ASENSIO {4}-ET	840003140305961	99K	100	F	551JE1710			74	1225	0.12	84	0.10	65	656	609	508	522	2.96
G	JX AARDEMA HALL {4}	840003009544067	99K	100	F	1JE1073			77	1345	0.07	78	0.07	63	642	602	518	507	2.86
G	JX ABS TJ {4}-ET	840003135245817	99K	100	F	29JE4102			71	1017	0.05	58	0.04	45	642	613	555	489	2.77
G	JX AVI-LANCHE RONALDO DEDE {4}-ET	840003131412485	99K	100	C	29JE4108			76	1308	-0.04	54	0.04	56	605	571	502	476	2.68
G	JX FARIA BROTHERS FRANCESA {5}-ET	840003144724310	99K	100	C	1JE1088			74	1461	0.03	75	0.05	63	641	605	530	456	2.76
G	DUTCH HOLLOW MIGHTY-ET	840003131737628	99K	100	F	29JE4079			77	789	0.22	82	0.13	55	654	599	482	490	2.80
G	JX FARIA BROTHERS ALTABALE {4}	840003144724230	99K	100	F	11JE1365			76	1652	0.01	81	0.03	65	621	592	533	496	2.84
G	JX PINE-TREE AROUND {5}-ET	USA 067731469	99K	100	F	1JE1075			72	852	0.15	72	0.10	52	649	605	512	523	2.98
G	JX PEAK ALTAGRAPPLE {5}-ET	840003147840033	99K	100	F	11JE1382			75	1364	-0.02	60	0.06	61	583	549	476	521	2.93
G	JX LUCKY HILL WHAMBAM {5}-ET	USA 172977801	99K	100	F	200JE1160			77	1497	0.03	78	0.02	59	629	603	549	451	2.85
G	JX AHLEM FRISCO ADAMA {6}	USA 067823967	99K	100	F	7JE1719			72	1265	-0.01	57	0.05	55	626	594	527	489	2.79
G	JX CO-OP WC MR CHAVEZ {4}-P-ET	840003146960075	99K	100	F	1JE5000			72	701	0.20	75	0.08	41	659	626	554	549	2.95
G	JX FARIA BROTHERS LAWSON {4}	840003144724329	99K	100	F	1JE1101			75	1896	-0.03	84	0.03	75	618	583	512	436	2.76
G	JX SUNSET CANYON GOT MAID {5}-ET	USA 119407594	99K	100	F	551JE1650			77	1417	0.05	77	0.05	61	614	578	504	471	2.73
G	OAKLANE DAZZLER DISCO 2127-ET	USA 067742127	99K	100	F	7JE1528			76	652	0.08	47	0.03	30	599	576	531	537	2.73
G	JX ABS HOTLINE {4}-ET	840003141494349	99K	100	F	29JE4093			75	1143	0.10	75	0.09	59	617	577	490	495	3.00
G	JX CAL-MART COTTAGE {5}-ET	USA 067374614	99K	100	F	29JE4118			75	644	0.17	65	0.09	42	601	558	468	498	2.70
G	JX FARIA BROTHERS BILL RUSSELL {4}	840003135124397	99K	100	F	29JE4068			76	1604	-0.02	72	0.00	58	594	573	532	490	2.79
G	JX DUPAT DISCO BENELLI {6}-ET	840003141725638	99K	100	F	7JE1724			73	1249	-0.06	47	0.00	45	579	563	530	493	2.81
G	JX OAK LANE WILDCAT {5}-ET	USA 067742182	99K	100	F	97JE170			75	1021	0.15	79	0.06	49	630	595	523	484	2.75
G	JX OAK LANE WHODAT {4}-P-ET	USA 067742198	99K	100	C	97JE178			73	964	0.07	60	0.05	44	615	588	531	499	2.87
G	PEAK ALTAVICE {6}-ET	840003147839950	99K	100	F	11JE1381			76	1781	-0.06	72	0.00	64	614	595	556	511	2.94
G	JX FARIA BROTHERS ALTAMCGAHEE {4}	840003135124228	99K	100	F	11JE1340			75	1686	-0.06	67	0.01	63	579	553	501	463	2.72
G	FARIA BROTHERS ZACH LOWE {6}-ET	840003144724385	99K	100	F	29JE4136			73	712	0.24	82	0.10	46	629	585	492	520	2.80
G	JX FOREST GLEN GOT MAID DANIEL {6}-ET	USA 067650254	99K	100	F	614JE1683			72	1485	-0.09	52	0.02	58	570	545	494	476	2.87
G	JX FOREST GLEN ALTO {6}-ET	USA 067650279	99K	100	F	29JE4119			73	1405	-0.05	57	0.02	55	573	546	492	431	2.73
G	JX KASH-IN DISCO SUIT {6}-ET	840003138463633	99K	100	F	7JE1707			73	598	0.24	77	0.13	47	627	576	467	467	2.79
G	JX ABS CHAPMAN {4}-ET	840003135245979	99K	100	F	29JE4078			76	1316	-0.03	56	0.04	56	566	535	472	499	2.83
G	JX FARIA BROTHERS MINKO {5}-ET	840003144724318	99K	100	C	1JE1089			74	931	0.14	73	0.09	53	627	584	493	476	2.90
G	FOREST GLEN KALAHARI	USA 067650122	99K	100	F	29JE4073			76	811	0.07	52	0.10	49	583	543	457	495	3.02
G	JX FOREST GLEN BALTAZAR AMORE {6}-ET	USA 067650232	99K	100	F	29JE4105			73	1133	-0.07	40	0.01	42	546	527	491	463	2.75
G	JX FARIA BROTHERS ALTANOWITZKI {4}	840003135124160	99K	100	F	11JE1334			77	1756	-0.10	62	0.00	64	572	547	497	436	2.68
G	SUN VALLEY JENIUS {6}	USA 172636645	99K	100	F	200JE1164			73	453	0.16	54	0.13	43	583	534	427	503	2.90
G	JX FARIA BROTHERS BALE {4}-ET	840003140371552	99K	100	F	551JE1705			72	929	0.13	71	0.04	41	619	594	543	499	2.84
G	PROMETEDOR LOOT-ET	USA 067119938	99K	100	F	200JE1138			76	1097	0.19	91	0.11	62	643	600	502	500	3.17
G	JX FARIA BROTHERS CARTER {4}-ET	840003144724309	99K	100	F	1JE1100			72	1357	-0.01	63	0.03	56	563	535	476	456	2.83
G	PROGENESIS SKYLER-ET	CAN 012672209	99K	100	F	200JE1132			76	1221	0.14	87	0.01	45	638	622	589	523	2.89
G	RIVER VALLEY CIRCUS CRAZE-ET	USA 075341001	99K	100	F	200JE10001			77	848	0.07	54	0.02	34	603	587	554	545	2.92
G	JX AARDEMA ALTASPARTA {4}	840003012659436	99K	100	F	11JE1375			73	684	0.15	64	0.04	33	596	572	524	535	2.86
G	JX AVI-LANCHE DISCO METAL {5}-ET	840003131412301	99K	100	F	7JE1694			73	620	0.02	34	0.05	32	552	525	472	505	2.79
G	JX FARIA BROTHERS ALTAGRONK {4}-ET	840003135124429	99K	100	C	11JE1339			75	1389	0.06	78	0.07	64	590	552	470	443	2.91
G	JX FARIA BROTHERS ALTASPARTA {4}	840003140371373	99K	100	F	11JE1350			74	1452	0.04	77	0.05	62	596	567	504	491	3.07
G	JX LOVES OCTAVIUS {6}-ET	USA 172979241	99K	100	F	200JE1159			73	806	0.19	78	0.12	53	608	563	463	475	3.07
G	JX FARIA BROTHERS MALDINI {4}-ET	840003135124483	99K	100	F	7JE1604			76	944	0.21	89	0.07	49	604	567	488	452	2.81
G	JX FARIA BROTHERS DONCIC {4}-ET	840003140371530	99K	100	F	7JE1634			73	1027	0.12	74	0.01	39	591	573	538	495	2.80
G	JX PINE-TREE PRIAPUS ASK {4}-ET	USA 067671620	99K	100	F	7JE1718			71	290	0.25	63	0.11	32	600	561	477	552	2.95
G	PROGENESIS COMPLETELY-ET	124 109902120	99K	100	C	200JE1116			75	1583	0.02	79	0.02	62	598	576	527	494	3.07
G	PROGENESIS DANCER-ET	CAN 110129621	99K	100	F	200JE1111													

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PL	LIV	DPR						Type Hds	Type Daus	Type REL	FS	ST	SR	DF	RA	RW	RL	FA	FU	RH	RUW	UC	UD	TP	TL	RTP RV	RTP SV	JUI
		DPR	REL	CCR	HCR	EFI	JPI																					
3.7	-1.2	-0.8	56	-0.7	1.7	5.8	206	0	0	72	1.1	1.5	0.6	1.1	L0.5	0.4	S0.2	S0.2	1.1	0.9	0.8	0.5	S1.5	C0.2	L0.5	C0.1	C0.6	13.7
3.9	-1.3	-0.7	64	0.5	2.4	7.8	204	0	0	76	1.6	0.9	0.8	0.6	L0.8	1.0	S0.2	S0.5	2.3	1.0	0.4	0.4	S1.5	C0.8	L0.1	C0.4	C0.4	18.3
7.2	2.5	1.2	60	1.7	2.1	7.7	204	0	0	74	1.2	1.0	0.3	0.4	H0.8	1.0	P0.7	S1.3	2.6	0.7	0.3	0.5	S2.8	C1.2	S0.1	C0.6	C0.5	25.4
5.2	1.6	1.1	61	1.3	2.1	7.2	203	0	0	74	1.5	1.5	0.2	1.5	H0.4	0.8	S0.2	S0.2	1.7	1.1	1.2	0.5	S1.9	C1.3	S0.4	C0.4	B0.4	20.6
5.6	1.3	1.2	60	2.0	3.4	5.7	201	0	0	75	1.3	1.7	1.3	0.7	L0.2	1.5	S0.1	S0.6	1.6	0.6	0.5	0.2	S1.2	C0.3	L0.3	C0.9	B0.4	12.2
6.1	0.8	0.3	60	-0.2	2.7	7.2	200	0	0	74	1.2	0.6	0.3	0.6	L0.1	0.6	P0.2	S0.5	2.1	1.2	0.4	-0.2	S1.5	C1.9	L0.1	C0.4	C0.2	17.3
6.2	0.3	0.4	61	1.1	3.4	8.0	197	0	0	74	1.3	-0.5	-0.7	0.7	H0.2	-0.2	S0.3	0.0	1.5	0.8	0.5	0.3	S0.9	C1.1	S0.3	C0.2	C0.1	13.5
3.6	0.4	-2.0	63	-1.4	0.4	6.3	196	0	0	75	2.0	1.0	1.1	0.9	L0.9	0.4	P0.3	S0.3	1.4	1.6	0.7	1.0	S1.1	C0.7	L0.8	C0.9	C0.3	16.6
5.1	0.4	1.5	61	0.8	2.4	7.9	195	0	0	75	1.2	1.1	0.5	1.0	H0.1	0.9	P0.3	S0.3	1.6	0.8	0.7	0.3	S1.2	C0.7	S0.3	C0.5	C0.3	14.6
2.7	-0.8	-1.0	64	-0.6	0.6	6.0	194	0	0	75	1.1	1.3	1.1	0.5	L0.3	0.6	P0.2	S0.6	1.7	0.7	0.4	0.4	S0.8	C0.4	L1.1	C1.2	C0.4	10.6
5.3	0.4	-0.4	63	0.3	2.3	8.8	194	0	0	76	1.2	0.6	0.5	1.2	H0.4	0.4	P0.4	S0.6	1.3	0.8	0.9	0.5	S0.9	C0.3	0.0	C0.4	C0.3	12.3
6.4	2.0	2.0	67	3.0	3.6	7.6	193	0	0	76	1.1	0.6	0.1	0.7	H1.3	1.1	P0.5	S0.8	2.5	0.8	0.5	0.2	S1.7	C1.6	S0.2	C0.5	0.0	20.0
4.9	-1.6	-0.1	61	0.3	3.0	7.9	192	0	0	75	2.2	0.5	-0.5	2.1	L0.7	-0.2	S0.5	L0.2	1.1	2.7	1.6	1.1	S0.8	C1.2	L0.1	C1.0	B0.3	19.5
2.2	-2.6	-3.8	65	-2.4	1.7	7.3	191	0	0	76	1.7	0.2	0.7	0.9	L0.6	-0.1	0.0	S0.4	1.4	1.2	0.7	0.5	S0.9	C0.7	L0.4	C0.4	C0.2	13.4
3.1	-1.9	-1.0	60	-0.4	2.0	7.0	191	0	0	74	1.2	1.7	0.8	1.0	L0.9	0.4	S0.1	S0.2	0.9	0.9	0.8	0.0	S1.1	W0.2	0.0	W0.2	0.0	9.7
3.5	-0.2	-1.1	66	-0.2	2.5	8.3	190	0	0	76	1.2	0.9	1.2	0.9	L1.1	0.5	S0.1	S0.1	0.5	0.5	0.7	1.1	D0.3	C1.9	S0.3	C1.5	C0.1	8.6
7.0	2.5	-1.3	59	-0.8	0.9	7.0	190	0	0	73	2.2	0.5	-0.4	1.2	H1.3	0.7	P0.5	S0.8	3.1	1.6	0.9	0.1	S2.7	C1.3	S0.4	C0.8	C0.1	27.9
4.5	1.2	-1.0	62	-0.1	1.6	6.0	189	0	0	75	1.8	0.9	0.9	0.7	H0.9	0.9	P1.1	S1.3	2.6	1.4	0.5	0.8	S2.1	C1.3	L0.6	C1.5	B0.5	24.3
4.2	-0.9	-3.1	59	-2.4	-0.1	6.8	188	0	0	74	1.6	0.8	0.6	0.7	H0.1	0.5	P0.4	S0.7	2.2	1.6	0.5	0.0	S2.3	W0.4	L0.5	C0.4	C0.2	19.5
4.0	-0.7	-1.3	65	-2.0	1.7	9.3	188	0	0	78	0.9	0.3	0.6	0.3	H0.5	0.8	P0.7	S0.3	1.3	-0.2	0.2	0.5	S1.0	C1.4	S0.2	C1.3	C0.2	11.7
2.4	-1.0	-1.5	62	-0.7	1.3	5.5	187	0	0	74	1.1	-0.1	0.7	0.9	L0.3	-0.1	S0.2	S0.1	0.5	0.6	0.7	0.9	D0.1	C1.4	L0.1	C1.1	C0.3	7.7
4.6	0.1	-0.5	60	0.0	2.6	6.8	187	0	0	73	1.8	1.1	0.8	1.5	H1.1	1.2	P0.5	S1.2	2.1	1.8	1.1	0.7	S0.9	C2.7	S0.1	C0.2	B0.2	21.1
3.1	-2.4	0.6	62	1.7	4.2	7.2	186	0	0	74	1.5	-0.6	0.3	1.3	H1.1	0.2	P0.6	S1.0	1.5	1.2	1.0	0.6	S0.5	C1.0	L0.1	C0.5	0.0	13.2
4.0	-0.8	-3.3	66	-3.5	0.2	8.3	185	0	0	78	1.9	0.6	-0.5	1.5	L1.0	-0.6	S0.3	S0.1	1.4	2.4	1.1	0.2	S1.8	C0.7	L0.5	W0.1	C0.7	19.3
6.2	0.6	-0.9	62	-0.2	0.8	8.6	185	0	0	75	1.6	1.0	0.3	0.6	L0.3	0.3	P0.3	S1.0	2.1	1.4	0.5	0.3	S2.3	C0.3	L1.0	C0.6	C0.6	19.9
5.6	2.2	0.3	60	0.3	3.4	7.1	185	0	0	73	1.4	1.3	0.3	1.7	H0.1	0.8	S0.5	S0.5	1.3	1.3	1.3	0.8	S1.1	C1.2	S0.1	C0.4	0.0	17.0
2.0	-3.3	-3.8	61	-3.3	0.8	4.8	184	0	0	74	1.7	0.7	1.2	0.9	L0.5	0.3	P0.1	S0.6	0.8	1.3	0.7	0.9	S0.1	C0.4	L1.2	C1.1	C0.1	8.3
3.1	-1.7	-2.0	65	-1.1	2.1	7.9	184	0	0	77	1.1	0.6	0.4	0.8	L0.3	-0.1	P0.3	S0.4	0.9	0.4	0.6	0.0	S1.0	W0.1	S0.2	W0.2	C0.5	8.4
7.3	2.8	1.9	64	2.3	2.9	8.7	184	0	0	77	1.8	1.2	0.1	1.2	H1.0	0.7	P0.6	S1.5	3.1	1.2	0.9	0.7	S3.1	C1.5	S0.4	C0.7	C0.9	31.2
3.9	-2.3	-0.9	59	-0.2	1.8	6.5	183	0	0	74	1.5	0.9	0.1	1.2	L0.6	0.4	P0.2	S0.2	1.3	1.1	0.9	0.3	S1.3	C0.7	S0.6	W0.1	C0.5	15.5
4.3	-0.3	-0.1	61	1.1	1.7	6.5	182	0	0	74	1.3	1.0	0.3	0.8	H0.6	0.6	P0.4	S0.8	2.3	1.4	0.6	0.2	S2.4	C0.5	L0.6	C0.4	C0.5	21.5
3.0	-0.2	-1.1	63	0.1	3.9	6.4	181	0	0	75	1.1	1.3	0.5	0.9	L0.7	0.0	S0.2	S0.2	0.5	0.8	0.7	0.5	S1.0	C0.4	L0.6	C1.2	C0.1	9.6
6.1	2.2	0.3	61	1.0	2.7	8.1	181	0	0	74	1.8	-0.1	-0.1	1.2	H0.7	0.0	P0.4	S1.1	2.4	1.2	0.9	0.6	S1.7	C2.1	S0.4	C0.5	C0.7	23.3
4.3	0.0	-1.6	61	-0.8	1.4	7.1	180	0	0	76	1.2	1.5	0.4	0.9	L0.6	0.2	S0.7	S0.6	1.2	0.9	0.7	0.4	S1.6	W0.1	L0.7	C0.2	C0.8	13.3
6.1	0.4	-0.5	61	-0.2	1.8	7.7	180	0	0	75	1.9	0.6	-0.4	0.6	H1.0	0.2	P1.0	S1.2	2.7	2.2	0.5	0.1	S3.2	W0.4	L0.5	C1.0	0.0	26.9
4.0	-0.1	-0.6	64	0.2	3.4	7.2	179	0	0	76	1.0	1.1	1.3	0.4	L0.3	1.1	P0.1	S0.5	1.4	0.3	0.3	0.1	S0.7	C0.6	L0.5	C0.6	B0.1	8.3
3.1	-0.6	-1.3	60	0.2	2.3	4.9	179	0	0	73	0.8	-0.1	0.6	-0.1	L0.1	-0.2	P0.3	S0.3	0.8	0.1	-0.1	0.6	S0.2	C0.3	L0.3	C1.2	C0.2	5.6
4.1	-1.5	0.2	59	0.2	1.6	6.2	179	0	0	74	0.9	1.0	0.5	0.3	L0.9	0.6	S0.2	S0.3	1.2	1.0	0.2	0.2	S1.0	C0.3	L0.3	C0.4	C0.3	11.2
4.5	0.8	-0.1	58	0.7	2.4	6.7	178	0	0	73	1.4	0.5	0.6	0.8	L0.7	-0.2	P0.1	S0.6	1.0	0.7	0.6	0.7	S1.4	C0.8	S0.1	C1.0	C0.3	14.9
4.7	0.9	-1.7	60	-1.0	1.1	7.9	178	0	0	75	1.3	0.8	0.2	1.1	L0.7	0.0	S0.5	S0.2	1.5	0.8	0.8	0.3	S1.7	C1.1	S0.4	C1.0	C0.3	17.3
4.2	-0.9	-1.7	61	-1.2	1.9	8.7	178	0	0	75	1.4	2.1	1.1	1.3	H0.6	1.2	P0.1	S1.1	2.4	1.0	1.0	0.3	S2.2	C0.3	L0.6	C0.3	C0.7	20.0
3.8	-1.6	0.5	64	2.2	3.8	6.6	177	0	0	75	1.5	0.6	0.9	1.2	H0.3	0.7	P0.2	S1.0	1.4	1.1	0.9	0.5	S0.9	C0.9	L0.4	C1.2	0.0	13.4
4.8	-0.4	-1.5	60	-0.5	1.5	7.2	177	0	0	74	1.0	0.1	-0.1	0.6	H0.4	0.2	S0.1	S0.3	1.4	0.7	0.5	-0.4	S1.6	W0.4	L0.6	C0.4	C0.2	10.0
5.2	0.1	0.7	64	1.6	2.5	6.6	177	0	0	76	1.8	1.0	0.4	0.8	H0.3	0.6	P0.6	S1.0	2.7	1.9	0.6	0.1	S2.3	C1.5	S0.3	C1.2	C0.1	25.7
5.7	1.8	0.0	62	1.2	3.5	8.0	177	0	0	75	2.0	-0.3	-0.2	1.1	H0.6	0.0	P0.5	S0.9	2.7	2.1	0.8	0.9	S2.5	C0.8	L0.5	C1.5	B0.1	28.1
3.8	-1.7	-2.1	65	-0.8	1.1	6.5	175	0	0	75	0.8	0.7	0.5	0.6	H0.3	0.4	P0.6	S0.9	1.4	0.5	0.5	-0.3	S1.2	C0.2	L0.2	C0.8	C0.1	9.5
4.5	1.6	1.3	60	2.3	5.0	7.3	175	0	0	74	0.8	1.5	0.8	0.3	H0.8	1.3	P0.4	S1.1	2.6	0.3	0.2	0.2	S1.8	C2.0	L0.4	C0.4	C0.5	18.9
5.6	1.1	-0.4	59	-1.0	2.3	6.7	175	0	0	73	2.1	1.9	1.1	0.7	H0.3	1.5	P0.8	S1.0	2.9	1.1	0.5	0.4	S2.8	C0.9	L0.4	C0.7	C0.8	25.8
3.1	-2.6	-1.4	62	-1.2	-0.1	8.2	174	0	0	76	1.5	2.2	1.0	1.3	L0.8	1.0	S0.3	S0.2	0.9	1.9	1.0	0.6	S0.9	W0.8	L0.6	W0.8	C0.4	12.0
3.7	-1.8	-1.0	56	0.1	1.9	5.1	174	0	0	72	1.7	0.2	0.3	0.7	L0.2	-0.2	P0.4	S0.6	1.6	0.8	0.5	0.3	S1.9	W0.7	0.0	C0.4	0.0	15.5
4.4	0.0	-1.0	62	-0.6	1.3	8.1	174	0	0	76	1.7	1.1	0.6	1.4	L0.6	0.6	P0.6	S0.5	1.2	1.9	1.1	0.5	S0.9	W0.5	0.0	W0.3	C0.1	13.8
6.7	3.3	1.8	69	2.3	2.8	9.6	174	0	0	78	1.9	1.7	0.0	1														

# Herd Register or Generation Count 4-6 and BBR 100: Genomic Tested (G) Bulls by JPI December 2018

ST	Name of Bull	Registration Number	GT	BBR	JH1	NAAB Code	No. Hrs	No. Daus	REL %	% Milk	% Fat	% Fat	% Prot	Prot	CM\$	NM\$	FM\$	GM\$	SCS
G	JX AHLEM BALTAZAR KIAWA (6)-P-ET	USA 067823735	99K	100	F	507JE1617			73	1014	0.00	49	0.02	40	526	509	474	452	2.95
G	AHLEM KWYNN RESPECT-ET	USA 067823687	99K	100	F	7JE1638			77	719	0.14	63	0.04	35	525	497	441	399	2.72
G	SUN VALLEY MARCIN JERONIMO-ET	USA 119873803	99K	100	F	14JE1626			77	1260	-0.04	52	0.04	54	561	533	473	415	2.91
G	JX ABS CHEESEHEAD (6)-ET	840003135246056	99K	100	F	29JE4081			75	970	0.16	79	0.09	53	579	538	450	458	2.88
G	JX FARIA BROTHERS COUTINHO (4)-ET	840003140305996	99K	100	F	551JE1711			75	770	0.20	77	0.06	40	584	552	486	434	2.80
G	RIVER VALLEY MAC MERIT-P-ET	USA 075341167	99K	100	F	200JE10030			74	855	0.16	73	0.08	47	567	532	458	465	3.02
G	ROC-BOT IMPLICATE (4)	USA 075211012	99K	100	F	200JE1099			77	1155	0.01	57	0.02	46	557	534	488	392	2.80
G	JX FOREST GLEN RONALDINHO OREGON	USA 067650195	99K	100	F	14JE1625			74	1339	-0.02	59	0.02	53	536	513	465	425	2.91
G	TOG LISTOWEL IROQUOIS-P-ET	840003143160018	99K	100	F	14JE1675			74	976	0.03	53	0.06	48	565	531	459	430	2.81
G	JX FARIA BROTHERS IGNATIUS (4)-ET	840003135124349	29K	100	F	97JE175			76	973	0.03	52	0.05	46	535	506	444	455	2.91
G	JX SANDCREEKS D STEVENS PARAGUAY	840003144012326	45K	100	F	566JE105			72	962	0.06	58	0.06	46	558	527	463	444	2.87
G	JX WASKIV DANESTAR (4)-ET	DNK 082902380	99K	100	F	200JE7919			74	189	0.33	75	0.17	40	580	522	398	438	2.90
G	JX PROGENESIS BOBCAYGEON (5)-ET	124 110216454	99K	100	F	200JE1114			76	1369	0.02	69	0.00	50	561	542	505	431	2.82
G	JX FARIA BROTHERS POGBA (4)	840003126052088	99K	100	F	7JE1505			76	599	0.16	62	0.11	43	541	501	413	487	3.02
G	VERJATIN FARMFEST-ET	CAN 110768695	99K	100	F	250JE1687			73	758	0.04	44	0.03	34	545	523	478	448	2.82
G	JX PEAK ALTAHEIR (6)-ET	840003138498950	99K	100	F	11JE1346			76	1521	-0.05	62	0.01	56	543	526	491	481	3.04
G	MFW ALTACHIVE-ET	USA 119691058	99K	100	F	11JE1326			77	1284	-0.06	49	0.04	54	517	494	443	448	3.11
G	JX AHLEM HARRIS RAZARRI (5)	USA 067823001	99K	100	F	11JE1308			77	2036	-0.09	77	-0.01	72	552	533	493	363	2.96
G	JX SEXING VALIDATE 60883 (5)-ET	840003010364630	13K	100	F	551JE1643			77	1678	-0.02	75	0.00	61	560	538	495	397	2.82
G	LEGENDAIRY BOURBON-ET	USA 119729720	99K	100	F	200JE1105			77	1278	0.07	76	0.05	57	547	518	454	412	3.06
G	JX SEXING DAYBREAK CHICO (6)-ET	840003132349950	99K	100	F	551JE1668			76	1198	-0.03	50	0.05	53	523	495	433	407	2.96
G	JX FARIA BROTHERS LEWANDOWSKI (4)-ET	840003140305997	99K	100	F	551JE1712			76	1103	0.09	72	0.04	47	558	534	484	398	2.96
G	JX DUPAT FEVER (5)-P-ET	840003141725612	99K	100	F	7JE1701			74	953	0.05	55	0.02	39	522	505	468	453	2.99
G	TOG LISTOWEL QUARTZ-ET	840003140986505	99K	100	F	7JE1650			74	1223	-0.03	51	0.04	52	518	490	432	396	2.86
G	JX FARIA BROTHERS TOM BRADY (5)-ET	840003135124336	99K	100	F	97JE159			76	1237	0.07	74	0.03	50	544	520	470	432	2.85
G	JX FARIA BROTHERS ALVES (5)-ET	840003140371276	99K	100	F	551JE1715			74	983	0.04	55	0.06	47	523	493	429	459	2.92
G	JX TLJ MOTOR (6)-P-ET	USA 067273623	99K	100	F	200JE1162			73	1129	-0.05	43	0.04	48	517	491	437	386	2.86
G	JX CAL-MART DINERO (4)	USA 067384551	99K	100	C	29JE4086			77	769	0.09	56	0.06	40	534	504	439	450	2.85
G	JX OAK LANE WINGMAN (5)-ET	USA 067742173	99K	100	F	97JE168			75	867	0.10	62	0.05	42	537	508	447	411	2.86
G	JX CRESCENT VOLCANO GRANT (6)	USA 067295728	50K	100	F	14JE754			76	870	0.08	57	0.03	38	532	511	468	435	2.95
G	CAL-MART HALO-ET	USA 067384567	99K	100	F	29JE4096			77	809	0.06	50	0.04	37	517	493	443	417	2.85
G	DP CHISEL DIEGO-ET	USA 119610341	99K	100	F	7JE1547			76	1008	0.10	68	0.03	42	561	539	493	433	2.85
G	JX FOREST GLEN MONUMENT SULLY (6)	USA 119889365	99K	100	F	97JE165			75	1082	-0.01	50	0.00	39	534	519	490	467	2.82
G	RIVER VALLEY MAC MOVER-ET	USA 075341176	99K	100	F	200JE10033			76	280	0.24	62	0.10	30	520	484	406	401	2.94
G	JX ALL LYNNIS HARRIS VALI (5)	USA 172966184	45K	100	C	321JE101			76	1529	0.00	73	0.04	63	503	472	407	311	2.85
G	JX BW COUNTDOWN (5)-ET	840003131148667	99K	100	F	551JE1667			77	1180	-0.05	45	0.03	48	488	464	415	402	2.83
G	PROGENESIS HARLEM-ET	CAN 012302933	99K	100	C	200JE1061			77	1374	-0.07	50	-0.02	45	494	483	464	391	2.80
G	JX MEIER LEONEL PALMER (4)	USA 067179059	99K	100	F	551JE1651			76	851	0.12	65	0.06	43	542	510	443	421	2.82
G	TOG ALTBALITZ UTE-ET	840003140986398	99K	100	F	14JE1679			73	662	0.06	43	0.07	39	504	470	398	404	2.85
G	RIVER VALLEY CHARLEY CHANGE UP-ET	840003126479215	99K	100	C	200JE10010			77	632	0.16	62	0.07	36	539	509	445	433	2.89
G	CAL-MART BARRICADE	USA 067384455	99K	100	F	29JE4044			76	449	0.19	59	0.10	36	521	479	392	438	2.75
G	PINE-TREE ALTAFULLBLD-ET	USA 067731422	99K	100	F	11JE1352			76	961	0.08	63	0.06	47	522	491	425	423	2.94
G	JX AHLEM DETERMIN CHAUNCY (6)	USA 067823330	99K	100	F	7JE1598			76	1060	-0.01	48	0.01	40	495	478	444	406	2.84
G	JX FARIA BROTHERS TOTTI (4)	840003126052081	99K	100	F	1JE950			77	950	0.05	55	0.02	39	534	516	477	497	2.96
G	AHLEM WHISTLER-ET	USA 067823718	99K	100	F	200JE1140			75	1029	-0.02	45	-0.01	35	499	488	468	412	2.81
G	RIVER VALLEY MAC MODEL-ET	USA 075341177	99K	100	F	200JE10032			76	285	0.26	65	0.11	32	505	465	378	409	2.88
G	JX PVF WORLD CUP ZANDER (5)	USA 172565169	99K	100	F	97JE173			72	190	0.19	47	0.10	26	504	467	390	448	2.82
G	JX GENERATIONS TRADITION (5)-P	USA 067289342	99K	100	F	29JE4045			77	1481	-0.03	63	0.02	58	506	481	429	343	2.88
G	JX FARIA BROTHERS FELTON (5)	840003135124089	99K	100	F	200JE1119			75	1216	-0.07	43	0.03	50	488	464	415	395	2.94
G	CAL-MART CHILI LARS	USA 067294430	99K	100	F	1JE946			76	533	0.07	40	0.07	33	487	456	391	454	2.84
G	DUPAT DILLAN RAIDER-P-ET	840003127607534	29K	100	F	147JE6226			76	828	0.05	49	0.01	31	496	483	457	480	2.85
G	JX PROGENESIS MILEAGE (6)-ET	124 109960135	99K	100	F	200JE1112			76	1859	-0.09	69	-0.01	65	525	507	471	350	2.88
G	TOG ALTBALITZ AMES-ET	840003139851986	99K	100	F	14JE1647			74	367	0.18	53	0.08	29	525	492	423	430	2.83
G	PROGENESIS MALARKEY-ET	CAN 109793000	99K	100	F	200JE11000			76	1215	-0.01	56	0.01	46	511	493	457	394	2.91
G	ISDK VJ HAVDAL LAPPE DEE (6)	DNK 000304164	50K	100	F	236JE224			73	-851	0.59	71	0.24	15	539	472	325	467	2.89
G	SHAN-MAR ARCHER KNOCK-OUT-ET	USA 067460152	50K	100	F	14JE758			77	953	0.07	60	0.04	42	515	492	443	419	2.94
G	JX FARIA BROTHERS CAVANI (4)-ET	840003140306014	99K	100	C	551JE1714			76	633	0.15	61	0.07	37	525	492	423	405	2.82
G	JX RIVER VALLEY BELLA BOOM (6)-ET	840003133234632	29K	100	F	7JE5075			76	1243	-0.01	56	0.04	53	483	457	402	379	2.99
G	JX RIVER VALLEY BELLA BOLD (6)-ET	USA 075341080	99K	100	F	7JE5073			76	1100	-0.03	46	0.05	51	487	456	392	383	2.96
G	JX OOMSDALE GEMMA HARRIS GANYA (5)-ET	USA 067235865	99K	100	F	29JE4026			76	1003	0.11	70	0.06	49	539	507	439	380	2.95
G	DUPAT DILBERT-P-ET	840003127607529	29K	100	F	202JE606			76	753	0.05	46	0.01	29	475	465	442	479	3.00
G	JX RIVER VALLEY CHECKMATE (5)-ET	840003126479255	99K	100	C	200JE10008			78	1352	-0.02	61	0.01	51	471	451	411	367	2.88
G	PROGENESIS HARDWORKER-ET	CAN 012302927	99K	100	C	200JE1060			77	1480	-0.06	57	0.00	54	493	476	440	352	2.92
G	JX GOLDEN HILL LUCKY BOB (4)	USA 173368215	99K	100	F	97JE185			73	732	0.11	58	0.07	41	496	465	397	410	2.99
G	ISDK VJ ADELGAARD HIHL HIWE	DNK 000304155	50K	100	F	236JE220			72	-627	0.53	72	0.23	21	531	464	318	465	2.84
G	JX RIVER VALLEY RUTH RIG (5)-P-ET	USA 075341077	99K	100	F	200JE10019			76	1351	-0.06	52	0.00	48	462	449	422	373	2.99
G	JX FARIA BROTHERS DYBALA (4)-ET	840003140305952	99K	100	F	551JE1709			76	1182	0.08	72	0.01	45	517	500	464	375	2.94
G	JX PEARLMONT PROP JOE DIMMER (4)	USA 067270655	99K	100	F	1JE955			77	381	0.17	52	0.07	28	499	470	409	431	2.90
G	RIVER VALLEY PFEN PROMO-P-ET	USA 075341095	99K	100	F	7JE5071			76	1075	-0.01	48	0.04	46	479	458	413	416	3.10
G	TOG ALTBALITZ KALONA-ET	840003143160038	99K	100	F	14JE1678			75	1248	-0.13	32	0.00	45	435	418			

# Herd Register or Generation Count 4-6 and BBR 100: Genomic Tested (G) Bulls by JPI December 2018

PL	LIV	DPR	REL	CCR	HCR	EFI	JPI	Type Hnds	Type Daus	Type REL	FS	ST	SR	DF	RA	RW	RL	FA	FU	RH	RWU	UC	UD	TP	TL	RTP RV	RTP SV	JUI
4.8	1.4	0.0	63	1.5	3.2	8.5	166	0	0	75	1.7	0.3	-0.7	1.3	L0.2	-0.5	S0.6	S0.1	1.8	2.0	1.0	0.7	S2.6	W0.2	L0.1	C1.0	B0.3	24.4
4.0	-0.3	-1.9	67	-0.4	3.2	9.5	166	0	0	78	2.6	1.9	0.3	1.6	L0.5	0.9	S0.3	S0.2	2.8	1.8	1.2	0.6	S3.0	C1.5	S1.0	C0.9	C0.9	32.1
4.8	1.2	-1.9	66	-1.7	2.2	8.7	165	0	0	78	2.0	2.3	1.5	1.3	H0.3	1.6	P1.1	S1.3	3.1	1.7	0.9	0.3	S2.2	C1.7	L0.3	C0.9	C0.9	26.0
3.2	-2.8	-0.9	60	-0.6	1.5	7.0	165	0	0	74	0.5	0.4	-0.1	1.2	L0.3	-0.2	S1.2	L0.4	0.0	0.6	0.9	-0.3	S0.1	W0.8	L0.3	W0.2	B0.3	-0.5
3.4	0.4	-2.2	58	-1.7	-0.2	5.3	165	0	0	74	1.5	0.6	0.3	0.4	H0.8	0.7	P0.8	S0.9	2.4	1.4	0.3	0.4	S3.2	C0.3	L1.0	C0.4	B0.1	25.2
3.2	-0.7	-0.5	61	0.9	0.0	7.3	164	0	0	75	1.1	-0.7	-0.3	1.6	H0.3	-0.3	S0.7	L0.1	0.5	1.1	1.2	0.8	0.0	C0.9	S0.2	C0.9	B0.3	9.0
5.6	0.8	-2.6	68	-2.2	-0.3	8.8	164	0	0	78	1.7	1.7	0.0	0.6	L0.6	0.3	P0.5	S0.7	2.5	1.4	0.4	0.1	S3.7	C0.8	L0.5	C0.6	C0.3	28.0
3.2	-0.4	-1.5	62	-0.5	1.8	8.2	163	0	0	75	1.8	0.0	-0.1	1.9	H0.2	-0.3	P0.1	S0.3	0.7	1.9	1.4	0.9	S0.3	C0.4	L0.2	W0.2	0.0	12.1
5.1	2.2	-1.1	63	0.0	1.3	8.7	163	0	0	76	1.2	-0.1	0.2	0.8	L0.4	0.4	P0.4	S0.4	1.1	1.0	0.6	-0.2	S0.3	0.0	S0.9	C0.8	B0.1	7.8
4.4	0.7	0.5	62	1.1	2.9	7.4	163	0	0	74	1.3	0.9	0.5	0.2	L0.5	0.1	P0.1	S0.3	1.4	1.0	0.2	0.4	S2.2	C0.3	L0.3	C0.2	B0.2	17.9
4.0	-0.6	-1.0	60	-1.0	1.3	7.5	163	0	0	74	1.4	0.2	0.4	0.6	H1.2	0.3	P1.3	S1.5	3.3	2.2	0.5	-0.3	S2.9	W0.6	L1.2	W0.3	B0.6	24.3
3.3	-0.4	-0.8	58	-1.2	0.7	3.6	163	0	0	72	0.9	1.6	0.6	0.1	H0.6	0.9	P0.2	S0.6	2.0	0.5	0.1	0.0	S3.0	0.0	0.0	W0.2	C0.5	20.5
3.9	-1.0	-2.0	62	-1.2	0.9	7.4	162	0	0	76	1.4	1.7	0.6	1.0	H0.3	0.7	P0.4	S1.0	2.2	1.2	0.7	-0.5	S2.6	C0.2	L0.3	C0.1	C0.3	19.0
2.8	0.4	1.3	62	2.0	5.8	5.3	162	0	0	74	0.5	1.1	0.0	0.8	L0.3	0.0	S0.8	S0.3	0.2	0.2	0.6	0.6	S1.3	W0.2	L0.8	C0.4	C0.3	7.8
6.4	2.7	0.3	61	0.1	1.4	8.1	162	0	0	74	1.5	0.8	0.3	1.1	H0.7	0.7	P0.5	S1.3	2.7	1.3	0.9	0.6	S2.7	C1.3	S0.2	C0.7	C0.5	27.6
3.3	-0.4	0.3	63	1.8	3.0	8.4	161	0	0	76	1.2	1.3	0.6	1.2	L0.7	0.3	P0.2	0.0	0.1	1.3	0.9	0.6	S0.2	W0.4	L0.2	W0.8	C0.4	6.2
4.1	-1.6	0.1	69	1.1	3.0	9.7	161	0	0	78	1.7	1.0	0.2	1.1	H0.2	0.5	P0.3	S1.0	1.7	2.1	0.8	1.0	S1.9	C0.7	L0.3	W0.4	0.0	23.2
2.2	-2.8	-4.6	67	-4.4	-1.6	8.6	160	0	0	78	1.7	1.8	0.9	1.6	H0.2	0.7	S0.1	S0.6	1.2	1.5	1.2	0.3	S1.1	C0.9	L0.2	C0.7	B0.2	14.4
2.8	-1.6	-3.6	67	-2.3	1.7	8.2	160	0	0	77	1.4	0.2	0.9	1.1	H0.8	0.5	P0.7	S0.5	0.7	0.8	0.8	0.9	D0.1	C0.2	L1.0	W0.5	C0.1	5.9
2.1	-3.0	-2.4	64	-2.4	-0.1	9.1	159	0	0	77	2.1	1.6	-0.4	2.4	L1.1	0.1	P0.1	L0.1	0.8	2.6	1.8	0.5	S0.5	C0.7	L0.1	W0.3	C0.4	14.2
4.0	0.3	-1.2	67	-0.8	2.0	9.1	159	0	0	78	1.1	-0.5	-0.7	0.8	L0.3	-0.6	P0.4	S0.4	0.7	1.1	0.6	0.3	S1.3	W0.4	S0.2	0.0	0.0	11.7
3.3	-0.6	-3.2	60	-2.7	-0.4	6.3	159	0	0	75	1.9	0.1	-0.4	1.1	H0.7	0.0	P0.6	S0.7	2.4	2.2	0.8	0.3	S3.0	0.0	L1.3	C0.4	B0.1	25.2
4.3	1.2	0.3	62	1.1	2.9	8.6	159	0	0	76	1.3	0.1	-0.3	0.7	L0.3	-0.2	0.0	S0.2	1.6	1.5	0.6	1.2	S2.0	C0.1	L0.2	C0.9	0.0	21.9
3.9	-0.1	-1.4	63	-0.7	0.3	8.7	158	0	0	76	1.5	0.7	-0.1	1.4	L0.7	0.3	S0.1	S0.4	1.1	1.8	1.1	0.1	S1.0	C0.9	S0.7	C1.1	B0.4	15.1
2.4	0.0	-1.1	60	-0.7	-0.3	6.0	158	0	0	75	0.5	-0.1	0.2	-0.5	L0.2	-0.4	P0.1	L0.2	1.2	0.6	-0.3	0.2	S1.0	W0.2	L0.9	C0.1	C0.4	8.5
3.4	0.7	1.2	60	1.0	0.4	6.6	158	0	0	75	0.8	-0.3	-0.4	1.0	L0.1	-0.1	S0.2	0.0	0.1	0.2	0.8	0.3	0.0	C0.5	S0.8	C1.2	C0.4	4.0
5.1	1.2	-1.7	63	-0.9	2.5	8.8	157	0	0	75	1.7	0.2	0.0	0.8	H0.3	-0.3	P0.5	S0.5	2.0	1.5	0.6	0.4	S2.0	C0.3	L0.9	C0.3	0.0	19.1
4.0	1.0	0.4	65	0.8	1.6	7.7	157	0	0	76	1.3	0.8	0.4	0.2	0.0	0.0	P0.3	S0.7	1.6	1.5	0.2	0.2	S1.8	W0.4	L0.4	0.0	0.0	16.2
3.8	1.4	-1.4	60	-0.5	1.9	6.7	156	0	0	75	1.2	0.7	0.3	0.2	H0.2	0.2	P0.3	S0.8	1.7	0.4	0.1	0.8	S1.9	C0.8	L0.5	C0.2	C0.8	17.7
5.3	0.5	-0.2	66	0.0	1.3	9.1	156	0	0	77	2.1	1.8	0.4	1.8	L0.9	0.6	S0.4	S0.3	2.1	1.6	1.3	0.3	S2.1	C1.8	S0.3	C0.9	B0.1	23.6
4.6	1.4	-0.6	67	-0.2	2.4	8.9	156	0	0	78	1.6	-0.7	-0.8	1.0	L0.3	-0.6	P0.7	S0.5	1.1	1.9	0.8	1.1	S1.0	W0.2	S0.4	W0.1	0.0	17.3
4.4	0.9	-1.3	64	-1.6	0.9	8.7	155	0	0	77	1.5	1.7	0.5	1.5	L0.8	0.5	P0.2	S0.7	1.1	1.6	1.1	0.6	S0.7	W0.3	S0.2	C0.2	C0.3	12.9
5.4	2.3	1.0	64	1.8	1.5	7.8	155	0	0	76	1.3	1.0	0.8	0.9	H0.3	0.9	S0.3	S0.3	1.7	1.5	0.7	0.6	S0.9	W0.5	L0.9	C0.5	C0.3	13.1
3.8	-0.1	-1.2	65	-0.4	0.0	7.9	155	0	0	77	2.2	1.7	-0.2	1.8	H0.6	0.9	S0.3	S1.0	3.2	2.2	1.4	0.5	S3.7	C1.0	S0.7	C0.5	C0.5	35.9
1.1	-3.9	-5.0	64	-5.0	-0.5	7.5	154	0	0	76	1.5	0.0	0.2	1.0	H0.2	-0.1	P0.4	S0.2	2.0	1.6	0.8	0.1	S1.8	C0.5	S0.1	W0.1	B0.3	19.2
4.5	0.1	-0.1	65	1.0	2.7	7.2	154	0	0	77	0.6	1.2	0.6	0.5	L0.1	0.2	P0.1	L0.1	1.1	0.2	0.4	0.2	S1.9	C1.0	L0.1	C0.2	C0.6	14.1
4.3	0.1	-1.2	68	-1.3	0.9	9.1	154	0	0	78	1.4	0.4	0.0	1.3	H0.3	0.0	P0.3	S0.7	1.8	1.0	1.0	0.7	S2.1	C0.6	L0.2	C0.5	C0.2	20.4
4.0	-0.1	-1.0	64	-0.5	1.5	7.1	154	0	0	76	1.0	1.2	0.8	0.3	0.0	0.5	P0.4	S0.3	1.7	0.9	0.2	-0.1	S1.8	C0.4	L0.8	C0.4	B0.1	14.1
4.8	1.7	-0.3	62	0.8	4.0	8.8	154	0	0	75	1.6	1.3	0.3	1.5	L0.9	0.6	S0.3	S0.2	1.1	2.1	1.2	0.4	S0.8	C0.6	S1.0	W0.1	C0.4	16.2
4.4	0.2	-0.5	66	-0.6	1.9	8.7	154	0	0	77	1.8	0.8	0.2	1.1	H0.2	0.6	P0.3	S1.1	2.0	1.1	0.8	0.5	S1.8	C0.3	S0.1	C1.0	C0.9	19.2
3.7	-1.3	0.3	64	1.1	3.8	7.0	154	0	0	77	0.8	1.3	0.2	0.5	L0.6	0.6	P0.1	S0.9	1.4	1.1	0.4	-0.3	S1.6	C0.1	L0.2	W0.6	C0.5	12.7
3.1	-0.2	-0.5	63	0.3	1.3	8.5	153	0	0	77	1.3	0.8	0.8	1.2	L0.4	0.7	S0.3	S0.1	0.8	1.5	0.9	0.8	S0.4	W0.3	S0.3	W0.5	0.0	11.3
4.4	1.8	-0.2	64	-0.2	1.6	7.7	153	0	0	77	1.4	1.3	0.2	1.2	L0.2	0.4	S0.2	S0.1	1.3	1.5	0.9	0.4	S1.6	C1.5	S1.0	C1.4	C0.1	19.9
4.2	2.2	2.3	66	1.0	2.5	7.1	153	0	0	77	0.9	1.0	0.7	0.3	L1.9	0.5	P0.4	S0.7	0.6	1.1	0.2	0.8	S0.7	W0.1	L0.2	C0.9	0.0	10.4
6.0	0.0	-0.3	63	-0.4	2.7	8.9	153	0	0	76	2.3	1.7	0.8	1.2	H0.3	1.3	P0.5	S1.3	3.3	2.1	0.9	0.7	S3.0	C1.4	L0.1	C1.3	C0.1	32.7
2.9	-2.1	-0.7	65	0.7	1.1	7.7	153	0	0	77	2.3	1.7	0.2	1.9	H0.1	0.8	S0.2	S0.8	2.5	2.1	1.5	0.7	S2.6	C0.8	S0.6	C0.5	C0.5	29.1
5.1	0.3	1.6	60	2.3	2.9	6.9	153	0	0	74	1.4	0.5	0.3	0.3	H0.9	0.7	P0.6	S0.9	2.6	1.2	0.2	0.4	S2.7	C1.2	L0.2	C0.2	B0.1	25.4
3.0	-1.6	-3.6	66	-2.3	0.9	7.8	152	0	0	77	0.9	-0.7	0.1	0.4	H0.3	-0.1	P0.2	S0.4	1.1	0.5	0.3	0.6	S1.0	C0.7	L0.1	C0.7	C0.1	12.0
4.4	0.0	-0.3	60	0.1	0.6	7.0	152	0	0	75	1.6	-0.1	0.0	0.5	L1.1	-0.3	P0.6	L0.1	1.1	1.7	0.3	0.5	S1.6	W0.7	S0.5	W0.7	C0.5	16.6
5.1	0.1	2.3	65	2.8	2.7	7.4	152	0	0	77	0.8	0.0	-0.3	0.4	H0.3	-0.1	S0.2	0.0	1.4	1.3	0.3	-0.5	S2.2	W0.1	S0.2	C0.2	B0.9	15.5
4.8	0.6	2.3	66	3.3	1.8	8.8	152	0	0	77	0.8	-0.3	-0.8	0.4	L1.4	-1.1	0.0	L0.1	0.7	1.4	0.3	0.1	S1.3	W0.2	0.0	C0.2	C0.5	11.6
2.1	-1.0	-4.3	61	-3.5	1.2	7.0	151	0	0	76	1.4	2.0	0.9	1.1	L0.7	0.4	0.0	S0.5	1.0	1.4	0.9	0.2	S1.0					

# Herd Register or Generation Count 4-6 and BBR 100: Genomic Tested (G) Bulls by JPI December 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	ISDK VJ DONGSGAARDEN HALEY	DNK 000304129	50K	100	F	236JE213			72	-108	0.34	62	0.13	22	469	424	327	371	2.76
G	AHLEM KWYNN CHINOOK 23485	USA 067823485	99K	100	F	551JE1700			78	15	0.15	30	0.10	20	398	362	287	330	2.79
G	RIVER VALLEY SAFARI SLY (6)-ET	840003126479080	99K	100	F	200JE10015			76	-23	0.31	61	0.11	20	475	439	364	386	2.91
G	PEARLMONT REGENCY TIBET	USA 067270696	99K	100	F	14JE1624			76	936	0.03	50	0.05	44	439	417	366	377	3.17
G	BW BRAVEHEART-ET	840003126536276	13K	100	F	551JE1656			77	570	0.17	62	0.09	38	473	441	371	337	3.11
G	AHLEM OLIVER KYSON-P-ET	USA 067823701	99K	100	F	14JE1639			76	857	0.11	64	0.02	34	462	448	417	322	2.95
G	ELLIOTTS REGENCY CASINO-ET	840003125141657	50K	100	F	14JE725			77	483	0.05	33	0.08	34	417	386	318	344	3.03
G	JX RVCF BUZZWORTHY (4)	840003133234707	99K	100	F	200JE10025			76	239	0.22	56	0.10	29	453	415	336	311	2.91
G	RIVER VALLEY NBRANDI SAXXON-P-ET	840003133234518	29K	100	F	202JE604			76	1133	-0.04	45	0.01	42	423	405	369	297	2.75
G	JX WILSONVIEW SWORD MULTIPLY (6)-ET	USA 119465110	99K	100	F	97JE152			76	1021	-0.01	46	-0.02	32	430	426	419	370	2.94
G	JX ROC-BOT DURABLE (5)	USA 075211001	99K	100	F	200JE1057			77	367	0.11	40	0.06	25	442	417	363	330	2.88
G	JX SR STERLING MATTER (6)-PP	USA 173156928	99K	100	F	97JE181			75	1041	0.03	55	0.03	44	436	413	364	274	2.88
G	JX AHLEM TARHEEL CHISM (5)-ET	USA 067823295	99K	100	F	7JE1580			77	808	0.06	51	0.06	41	432	403	341	322	2.92
G	ISDK VJ AARRE LAPPE LARI	DNK 000304158	50K	100	F	236JE222			72	-210	0.29	46	0.13	18	416	374	283	376	2.83
G	FOREST GLEN PREMIUM GOLD	USA 067609471	99K	100	F	97JE150			76	595	0.20	69	0.08	37	461	432	367	354	3.10
G	SCENIC VIEW ASTUTE-P-ET	USA 067359183	99K	100	F	91JE5822			76	1045	-0.02	46	-0.02	34	413	406	393	327	2.87
G	BW PAXTON-ET	USA 119446229	99K	100	F	551JE1649			77	662	0.05	42	0.03	30	397	379	340	309	2.91
G	PETERSON REGENCY LEON	840003010961740	99K	100	F	97JE153			76	831	-0.07	25	0.05	41	353	326	266	293	2.92
G	JX AHLEM BRUNO (5)-ET	USA 074067613	99K	100	F	551JE1654			78	921	0.00	43	0.01	35	385	372	344	304	2.94
G	RIVER VALLEY CECE CHOICE	840003133234718	99K	100	F	200JE10027			75	738	0.01	37	0.01	28	388	377	354	268	2.93
G	PINE-TREE DAYBREAK POLICY-ET	USA 067771245	99K	100	F	97JE155			77	450	0.14	49	0.04	25	413	396	356	328	3.04
G	GOLDEN DREAM AMERICAN PHAROAH-P	USA 172553124	45K	100	F	566JE106			75	632	-0.07	16	0.02	26	384	372	345	380	2.95
G	JX LEGENDAIRY MONEYBAG (5)	USA 119392427	99K	100	F	200JE1065			76	1613	-0.14	47	0.00	58	390	376	344	253	3.08
G	PINE-TREE KWYNN CUATRO-ET	USA 067731388	29K	100	F	566JE104			76	-47	0.16	29	0.09	16	351	319	252	292	2.83
G	RIVER VALLEY DAHLIA DEFIANT	840003126479063	99K	100	F	200JE10016			77	1338	-0.12	39	-0.03	41	400	394	386	326	2.83
G	ISDK VJ MOSEGAARD HILARIO HAARE	DNK 000304229	50K	100	F	236JE229			72	-27	0.23	45	0.14	26	398	351	252	349	2.84
G	ISDK VJ HAGENBUERGAARD HITMAN (5)	DNK 000304254	50K	100	C	236JE231			71	-577	0.27	25	0.18	13	353	302	192	358	2.88
G	ALL LYNNS NIKON VALGGO-PP	USA 119288203	99K	100	F	11JE1294			77	869	0.07	56	0.05	42	422	400	350	256	3.19
G	GRAZELAND LEMONHEAD DEVINCI	USA 119413681	99K	100	F	224JE2480			77	869	0.04	50	-0.01	30	399	390	374	348	2.91
G	JX SEXING GFRAPP GOLDEN (4)-P-ET	840003010364640	13K	100	C	551JE1653			76	794	-0.03	31	0.05	39	366	344	294	276	3.13
G	ST-LO PRESTO-ET	CAN 110150638	99K	100	F	97JE187			75	81	0.09	22	0.01	4	363	355	343	316	2.78
G	TATE BENEFACOR SAVIOR-ET	840003006436157	29K	100	F	147JE6227			76	1495	-0.10	49	-0.04	45	389	384	377	297	2.80
G	AUDIBEL JARVIS-ET	CAN 110768703	99K	100	F	551JE1721			73	476	0.15	52	0.08	33	409	380	315	321	3.03
G	SEXING LEMONHEAD DOYLE-ET	840003132348057	99K	100	F	551JE1698			76	553	-0.04	18	0.00	20	312	304	289	261	2.91
G	AHLEM BALIN-ET	USA 072520700	80K	100	F	200JE1014			80	-89	0.09	13	0.01	-1	300	295	286	302	2.89
G	OOMSDALE ANIECE NIKON ADAM-P-ET	USA 067235833	99K	100	F	91JE5694			77	431	0.13	46	0.04	23	351	335	300	218	3.03
G	ISDK VJ HOEHOLT PICK PEREZ (6)	DNK 000304130	50K	100	F	236JE212			74	-585	0.39	47	0.20	18	344	285	156	218	2.89
G	DUPAT CHARLEMAGNE 521-ET	840003127607540	29K	100	F	44JE532			77	1230	-0.09	39	-0.06	32	296	304	322	221	3.02
G	DUTCH HOLLOW SANTANA CASE-PP-ET	840003131737417	29K	100	F	54JE636			76	976	-0.05	36	0.02	39	310	295	262	160	3.04
G	HOMETOWN IRWIN ATTRACTION 83A	CAN 011879369	80K	100	F	91JE5592			80	726	-0.02	30	0.01	28	284	272	249	186	2.95
G	HILMAR SPARKY ATLAS (5)-ET	USA 119268647	29K	100	F	100JE7367			78	397	0.06	31	0.05	24	285	266	225	227	3.05
G	ST-LO NUANCE-ET	CAN 109541955	99K	100	F	200JE1089			75	-215	0.11	11	0.02	-3	268	257	236	221	2.73
G	VERJATIN DAYLIGHT	CAN 110356901	99K	100	F	551JE1718			73	382	0.10	38	0.05	24	298	278	234	174	3.01
G	ROSE CALLENBERG CRYSTAL-P-ET	DEU 539873090	6K	100	F	202JE607			73	388	0.04	27	0.02	17	247	234	210	189	2.82
G	BW VALENCIA-ET	840003126536268	13K	100	F	551JE1657			76	464	0.05	32	0.01	19	265	258	242	131	3.07
G	ALL LYNNS VERNON MACARTHUR-ET	USA 118612153	80K	100	F	202JE601			77	277	0.17	47	0.06	22	300	282	239	234	3.17
G	DUPAT BRIER 476-ET	USA 067163476	13K	100	C	44JE529			76	1415	-0.14	38	-0.02	47	251	243	227	169	2.99
G	ISAU BUSHLEA PN VIRAL-ET	AUS 000705410	99K	100	F	200JE8187			77	-489	0.28	30	0.12	6	274	244	177	251	3.18
G	LAMARIA WILBERT-ET	CAN 109960092	99K	100	F	551JE1693			75	436	0.05	31	-0.01	14	251	248	243	176	2.94
G	JX DUPAT PLUS 473 (4)	USA 067163473	13K	100	C	44JE527			75	1163	-0.11	33	-0.03	36	212	210	206	183	2.99
G	DUPAT BRIER 474-ET	USA 067163474	13K	100	C	44JE528			76	1398	-0.12	42	-0.03	44	237	234	227	163	3.02
G	ISDK ADELGAARD PRIMERO PRIMAL	DNK 344803387	29K	100	F	97JE42034			74	-580	0.24	18	0.07	-7	253	237	201	236	3.04
G	GOLDEN DOMINATE-ET	CAN 012344082	99K	100	F	94JE4062			77	319	0.04	23	0.02	15	199	190	169	133	2.96
G	ST-LO BARCELONA POLLEN	CAN 110150613	99K	100	C	551JE1720			74	385	0.05	28	0.02	17	214	205	185	145	2.97
G	SPRUCE-H CHRIS-PP-ET	USA 067106207	8K	100	C	202JE602			76	127	0.15	35	0.02	9	214	207	189	109	3.03
G	SEXING KWYNN FURIOUS-ET	840003132351476	99K	100	F	551JE1716			76	-250	0.06	0	0.03	-3	140	128	107	117	2.81
G	UNIQUE HP HELLCAT	CAN 012726323	99K	100	F	250JE1668			74	-14	0.02	3	0.04	8	162	148	117	107	2.96
G	RIVER VALLEY RICKI ROCKSTAR	840003126479237	99K	100	F	200JE10009			76	-459	0.15	7	0.05	-7	167	154	126	146	2.87
G	RIVER VALLEY JOYRIDE-ET	840003126479085	99K	100	C	200JE10011			77	-169	0.12	15	0.06	6	146	131	97	106	3.14
G	BW ARMISTICE-ET	USA 117795635	50K	100	C	44JE521			78	19	0.09	19	0.03	7	155	147	128	124	3.11
G	ENNSKILLEN ENGINEER 401	CAN 012038719	99K	100	F	224JE2479			77	-680	0.21	8	0.07	-11	160	147	118	157	3.12
G	HER-MAN BARNABAS 210-ET	840003124766079	13K	100	F	91JE5867			77	-520	0.16	7	0.06	-8	101	88	59	44	2.94
G	HOMETOWN MERCHANT ANDRETTI-ET	CAN 011295001	50K	100	C	91JE5453			78	655	0.04	40	0.02	28	144	133	106	51	3.09
G	AUDIBEL NOTEBOOK-ET	CAN 110059221	99K	100	F	551JE1694			73	-40	0.00	-2	0.03	5	104	98	83	91	3.20
G	BW ATLAS-ET	USA 117799901	50K	100	F	44JE520			79	610	0.02	34	-0.03	16	113	118	128	14	3.06
G	RIVER VALLEY STRIKEZONE-ET	840003133234760	99K	100	F	200JE10031			77	-343	0.06	-4	0.06	0	67	53	21	29	3.14
G	RIVER VALLEY VENUS V I P-ET	840003126479167	99K	100	F	200JE10003			76	-1006	0.12	-25	0.06	-24	-55	-63	-83	-50	3.06
G	KCJF HIRED MAGICIAN	840003138865447	99K	100	F	7JE1705			76	-1479	0.27	-21	0.09	-36	-43	-55	-82	22	3.06
G	TRIPLE-T-CF MR SWAGGER-ET	840003128791561	99K	100	F	7JE1605			77	-1551	0.31	-17	0.15	-29	-38	-62	-119	-47	3.18
G	RIVER VALLEY LOLALALA-ET	USA 075341116	99K	100	F	200JE10023			77	-672	0.00	-31	0.03	-18	-109	-110	-114	-95	3.11
G	COLTON FLAME FIREMAN	USA 118155636	99K	100	F	94JE4004			79	-1096	0.17	-21	0.08	-25	-106	-116	-141	-118	

## Herd Register or Generation Count 4-6 and BBR 100: Genomic Tested (G) Bulls by JPI December 2018

PL	LIV	DPR	REL	CCR	HCR	EFI	JPI	Type Hrds	Type Daus	Type REL	FS	ST	SR	DF	RA	RW	RL	FA	FU	RH	RWU	UC	UD	TP	TL	RTP RV	RTP SV	JUI
2.8	0.1	-0.5	54	1.0	2.9	2.3	135	0	0	68	0.4	0.3	0.1	0.2	L0.1	0.3	S0.3	S0.3	1.8	0.2	0.2	-0.6	S2.2	C0.7	0.0	W0.2	C0.7	14.1
4.6	0.3	0.6	67	1.2	2.3	9.2	132	0	0	78	2.1	1.6	0.1	1.1	H0.1	0.7	P0.4	S0.7	2.8	1.4	0.9	0.3	S3.5	C1.4	S1.6	C1.4	C0.6	32.9
3.9	0.1	0.2	64	0.0	0.5	7.0	132	0	0	77	1.1	1.3	0.1	0.5	L0.5	0.2	P0.1	S0.6	1.8	1.0	0.4	0.8	S2.9	C0.1	L0.6	W0.1	C0.9	23.0
2.9	-1.2	-0.1	67	1.4	2.4	7.9	131	0	0	77	1.4	0.6	0.3	1.1	L0.7	0.0	S0.1	S0.4	0.8	1.3	0.8	0.4	S0.8	C1.2	S0.6	0.0	C0.4	13.4
2.9	-0.6	-2.2	67	-1.9	-0.6	9.5	131	0	0	78	1.6	0.2	-0.2	1.2	L0.3	-0.4	P0.1	0.0	1.9	2.2	0.9	-0.2	S2.0	C0.8	0.0	C0.2	C0.2	20.4
2.7	0.3	-3.1	66	-2.6	-0.3	8.8	130	0	0	77	2.1	1.0	-0.1	1.8	L0.7	0.0	0.0	S0.2	1.6	2.6	1.3	0.3	S2.1	C0.4	S0.1	C1.1	B0.1	22.7
3.9	0.7	0.3	68	0.8	1.7	8.7	129	0	0	77	2.2	2.1	0.9	1.6	L0.2	1.1	P0.2	S1.0	2.3	2.0	1.2	0.7	S2.1	C1.7	S0.6	C0.9	C0.2	27.1
3.5	-0.4	-2.1	67	-2.4	-0.1	7.3	129	0	0	77	1.6	-0.2	-0.3	0.7	H0.3	-0.3	P0.6	S0.8	1.9	1.3	0.5	0.7	S2.0	C1.1	S0.1	C0.7	B0.1	22.1
2.5	0.2	-2.5	64	-2.4	0.4	8.7	128	0	0	76	1.8	1.8	0.1	1.7	H0.1	0.5	0.0	S0.6	1.7	1.8	1.3	-0.2	S1.6	0.0	L0.8	C0.3	C0.3	14.8
3.9	0.3	-0.5	63	0.9	3.5	8.2	128	0	0	76	1.3	-1.0	-0.1	0.6	H1.0	-0.1	P0.8	S0.4	2.0	1.7	0.4	0.0	S1.4	C0.3	L0.2	C0.8	B0.1	16.5
5.4	2.2	-1.0	67	0.0	3.2	10.1	128	0	0	78	1.9	1.7	0.7	1.1	L0.5	1.0	S0.1	S0.6	2.1	1.6	0.8	1.0	S2.2	C0.3	S0.1	C0.7	C0.7	24.5
3.2	-1.5	-3.6	63	-3.4	-0.4	8.0	126	0	0	76	1.1	0.3	-0.3	0.8	H0.5	0.0	P0.5	S0.1	1.7	1.2	0.6	-0.3	S1.7	C0.4	S0.1	C0.8	C0.6	15.2
2.2	-0.6	-1.5	68	-1.2	0.2	9.0	126	0	0	77	1.6	1.6	0.7	0.9	L0.5	0.7	P0.7	S0.7	2.0	1.7	0.7	-0.2	S1.4	C0.7	S0.4	C1.5	C0.7	17.2
3.1	0.7	1.4	54	3.8	4.7	2.3	123	0	0	69	-0.8	-1.3	-0.4	-0.7	L0.7	-0.7	0.0	S0.4	0.0	-0.3	-0.6	0.3	S0.9	C0.5	0.0	W0.5	C0.4	4.9
2.8	-2.4	-1.3	65	-0.6	-0.1	7.3	123	0	0	76	1.3	1.3	0.5	1.1	L0.3	0.6	P0.1	S0.4	0.7	1.2	0.8	0.5	S0.9	C0.6	L0.2	C1.3	B0.3	11.6
3.2	0.7	-1.2	65	-0.8	1.7	8.2	122	0	0	77	1.8	2.5	1.1	1.7	L0.9	1.0	P0.1	S0.5	1.9	2.2	1.2	0.1	S1.9	C0.3	S0.3	C1.1	C0.7	21.0
3.7	0.2	-0.9	67	-0.6	2.1	9.2	122	0	0	78	1.4	0.2	0.1	0.2	H0.1	0.4	0.0	S0.5	2.4	1.1	0.1	-0.2	S2.4	C1.0	S1.0	C0.2	C0.5	22.5
3.1	-1.7	-0.1	66	1.0	2.3	7.2	121	0	0	77	1.4	-0.1	-0.1	0.8	L1.0	-0.3	S0.6	0.0	1.0	1.9	0.6	0.0	S1.4	0.0	0.0	W0.2	C0.2	14.1
3.1	-0.8	-1.2	67	-0.2	2.4	8.3	121	0	0	78	1.3	0.3	0.1	0.6	H0.2	0.1	S0.3	S0.5	1.7	0.9	0.4	0.9	S2.0	C1.0	L0.6	C0.8	B0.3	20.0
4.4	0.0	-2.4	63	-2.8	1.9	8.9	121	0	0	76	2.7	1.8	0.2	1.4	L0.5	0.6	P0.7	S1.0	3.4	2.9	1.0	0.9	S3.4	C2.1	S0.4	C0.8	B0.1	39.3
3.3	0.6	-1.1	66	-0.3	2.4	8.1	121	0	0	78	1.5	0.1	-1.0	1.7	0.0	-0.3	S0.3	S0.5	1.1	1.5	1.2	0.9	S1.6	W0.2	S0.5	C0.1	B0.1	18.4
5.1	3.6	2.8	65	3.3	2.7	8.6	120	0	0	77	1.3	0.8	0.6	0.2	H0.1	0.8	P0.4	S0.5	2.0	1.5	0.2	0.0	S2.0	C0.2	L0.1	0.0	0.0	18.7
1.9	-2.1	-3.5	66	-3.4	1.0	8.2	119	0	0	77	1.0	-0.3	0.0	1.0	L0.1	-0.5	P0.2	S0.3	0.5	0.7	0.7	0.7	S0.6	C0.1	L0.2	W0.1	C0.2	8.6
3.4	1.1	0.5	65	1.0	1.9	8.2	119	0	0	77	2.1	1.2	0.4	0.6	H0.2	0.9	S0.2	S0.6	3.1	1.6	0.4	0.8	S3.4	C1.7	S1.5	C0.4	C0.3	35.9
3.6	1.0	-0.4	66	-0.3	0.1	7.8	117	0	0	78	0.9	0.0	0.6	0.6	L0.4	0.2	P0.4	S0.4	0.8	0.4	0.5	0.1	D0.6	C0.5	S0.5	C1.1	C0.7	2.5
2.4	-1.0	1.0	54	3.8	2.0	2.1	117	0	0	68	0.0	0.1	0.3	0.4	H1.0	0.5	P0.1	S0.3	0.1	-0.2	0.3	-0.4	S1.2	W0.6	S0.3	W0.8	C0.7	3.4
3.1	1.5	3.6	56	4.8	4.5	3.0	116	0	0	69	-0.4	0.0	-0.8	-1.5	L0.3	-0.9	S0.2	S0.1	1.0	-0.2	-1.1	0.1	S2.2	W0.2	S0.1	0.0	C0.1	12.3
2.7	-0.5	-3.9	67	-3.9	-0.8	8.8	115	0	0	78	2.3	1.4	0.7	1.7	H0.1	1.2	0.0	S0.6	2.2	2.3	1.3	1.1	S2.6	C0.2	L0.7	C1.0	C0.1	27.5
3.7	-1.4	0.5	69	0.9	-1.6	8.8	115	0	0	78	1.6	2.8	0.7	0.9	L0.3	1.2	S0.1	S0.9	1.4	0.9	0.7	0.6	S1.7	C1.9	L0.2	C1.5	C0.5	18.4
3.3	1.4	-0.7	63	-1.0	1.1	7.8	113	0	0	76	1.3	-0.8	-0.6	0.5	L1.1	-0.6	S0.2	L0.9	0.1	1.6	0.4	0.9	S0.5	C1.6	S0.2	C1.9	B0.8	12.5
5.7	2.9	0.7	62	1.4	1.0	8.4	113	0	0	75	2.5	2.5	-0.2	0.9	H1.3	1.2	P0.9	S1.8	4.1	2.2	0.7	1.0	S5.0	C1.2	L0.7	C1.0	C0.4	44.1
2.3	-1.9	-1.9	65	-1.0	0.0	7.7	112	0	0	77	1.4	2.2	0.9	1.6	H0.7	1.2	S0.5	S0.8	0.7	1.3	1.2	-0.1	S0.4	W0.1	L1.5	W0.4	B0.4	4.4
2.7	-0.4	-0.3	61	-0.9	-0.6	7.8	107	0	0	74	1.3	0.9	0.9	1.5	H0.1	0.8	S0.4	S0.5	0.3	1.4	1.1	0.8	D0.4	W0.2	L0.3	0.0	C0.1	5.2
4.2	0.8	-0.2	69	0.4	2.1	9.7	103	0	0	77	2.3	1.1	-0.2	1.2	H0.1	0.4	P0.5	S1.2	2.7	1.9	0.9	0.9	S2.9	C1.2	L0.3	C0.9	C0.6	30.2
4.7	2.8	2.0	68	1.7	2.8	8.7	102	1	3	79	2.5	1.7	-1.2	1.7	H0.9	0.3	P0.3	S1.4	2.8	2.2	1.3	1.4	S3.9	C1.2	L0.1	C1.3	0.0	38.1
2.9	0.8	-2.9	66	-3.0	-0.4	8.9	95	0	0	78	1.9	1.9	0.5	1.4	0.0	1.1	P0.5	S1.0	1.7	1.4	1.1	0.9	S2.9	C1.1	S0.9	C0.9	C0.2	27.9
1.7	-0.7	-1.2	59	-1.5	-1.9	4.1	92	0	0	72	-0.4	0.1	-0.3	-0.5	H0.5	0.5	P0.5	S0.5	1.3	-0.3	-0.4	-0.7	S2.7	W0.5	S0.4	W0.8	C0.8	12.3
2.4	-1.1	-1.8	66	-2.6	0.7	9.4	91	0	0	78	1.1	1.1	-0.5	1.0	L1.3	0.4	S0.2	S0.1	1.3	0.6	0.7	-0.4	S2.4	C1.3	S0.4	C0.4	C0.3	16.8
1.8	0.3	-4.0	65	-4.3	0.5	8.5	89	0	0	77	1.4	1.0	0.2	0.6	H0.1	-0.3	P0.4	0.0	1.6	1.6	0.5	0.2	S1.9	W0.2	L1.3	W0.4	B0.2	15.7
2.6	-0.7	-2.0	68	-2.8	-0.1	9.2	89	2	3	79	1.6	1.2	-0.6	1.5	L0.6	-0.7	S0.3	L0.4	1.2	2.2	1.1	-0.1	S1.4	C0.3	S0.6	C0.6	C0.2	16.5
1.6	0.2	-0.6	70	-0.5	1.8	9.8	87	0	0	79	1.1	0.5	-0.2	1.2	L0.9	0.3	P0.2	S0.7	0.8	0.4	0.9	0.8	S1.0	C2.3	L0.3	C0.9	C1.2	13.4
5.0	2.2	0.4	62	0.5	1.1	8.5	85	0	0	75	2.5	2.7	0.3	1.3	H0.9	1.6	P0.6	S1.9	3.6	2.1	1.0	0.7	S4.4	C1.4	L0.3	C1.0	C0.4	39.5
2.6	-0.5	-2.8	61	-2.4	0.2	7.9	83	0	0	74	1.6	1.4	0.6	0.8	0.0	0.4	S0.2	S0.4	1.9	1.9	0.6	0.3	S2.3	C0.1	S0.2	C0.3	B0.2	22.3
2.7	-1.6	-1.0	62	0.4	2.5	6.8	82	0	0	73	1.4	2.0	0.6	0.6	H0.4	0.9	S0.1	S0.7	1.9	0.8	0.5	0.5	S2.6	C0.7	S0.3	C1.0	B0.6	22.5
3.2	-0.8	-3.7	65	-4.2	-0.9	8.4	79	0	0	77	2.2	-0.1	-0.5	1.5	H0.7	-0.1	P0.7	0.0	2.9	2.3	1.1	-0.1	S3.6	C1.3	S1.3	C0.6	C0.6	33.8
1.2	0.9	-0.5	66	-0.1	-1.1	6.4	75	0	0	77	0.0	-0.4	-0.4	-0.2	L0.2	-0.6	S0.5	L0.1	0.2	-0.1	-0.2	-0.3	S0.5	C0.1	S0.1	W0.4	C0.6	1.6
0.8	-3.7	-1.8	66	-2.5	-1.7	9.0	74	0	0	77	0.3	1.2	0.6	0.4	L0.2	0.6	S0.1	L0.5	0.0	0.2	0.3	-0.1	D0.9	C0.8	L0.5	C0.3	C0.2	-3.7
2.0	0.2	1.3	68	0.8	0.4	8.0	74	0	0	78	2.0	0.2	0.0	1.8	H1.2	0.4	P0.5	S1.2	2.2	1.6	1.3	0.2	S1.2	C1.5	S0.7	C0.1	C0.5	19.8
2.2	0.0	-1.6	64	-2.4	-0.4	9.1	70	0	0	76	1.8	2.7	0.4	1.3	0.0	1.1	P0.7	S1.3	2.6	1.7	0.9	0.2	S3.1	C0.4	L0.4	W0.2	C0.5	26.5
-0.2	-4.7	-0.7	62	-1.4	-2.4	5.7	69	0	0	75	0.7	0.4	-0.5	0.9	H0.5	0.2	P0.2	S0.1	0.3	1.6	0.7	-0.2	S0.4	C0.3	L0.9	C0.7	B0.2	5.0
-0.1	-2.4	-1.8	66	-2.2	-2.0	8.5	67	0	0	77	0.2	1.4	0.6	0.5	L1.2	0.4	S0.6	L1.0	-0.9	0.3	0.3	0.3	D1.3	C0.2	L0.8	C0.3	C0.2	-7.4
4.6	2.3	1.4	59	2.9	3.1	5.1	67	0	0	72	1.2	1.2	0.3	0.5	H0.7	0.6	P0.5	S1.1	2.5	1.4	0.3	0.6	S2.9	C0.2	L0.5	C0.5	C0.4</	