

# OUTCROSS SIRES

HOLSTEIN – NAAB order

Bull Code	Name	CP	Pedigree	TPI	NM\$	PTAM	PTAP	PTAF	PTAT	UDC	FLC	SCS	PL	LIV	DPR	CCR	HCR	SCE
011H011888	AltaDURST		MONTROSS X FREDDIE	2640	744	2110	71	68	1.64	2.03	1.80	2.96	5.8	1.3	2.2	3.4	0.1	6.8
011H011860	AltaSPARKLE		SPARK X MONTROSS	2631	775	2091	72	71	1.74	2.15	0.78	2.90	5.9	-0.8	1.1	2.3	1.4	5.8
011H011767	AltaCONCORD	CP	RUBICON X SUPERSONIC	2620	806	905	46	112	1.40	0.82	1.12	2.86	6.0	0.6	1.7	3.0	2.9	7.3
011H011740	AltaFACET	CP	AltaSPRING X SUPERSIRE	2599	750	1694	63	91	1.47	0.94	1.00	2.83	5.2	-0.1	1.2	3.2	2.6	8.4
011H011632	AltaTWIX		BALISTO X MOGUL	2349	557	1295	60	73	1.57	1.28	1.21	3.08	2.5	-1.8	-1.8	0.2	0.0	6.9
011H011605	AltaWILD P		OHARE-P X SHAMROCK	2174	462	1040	30	32	0.81	0.74	0.77	2.73	4.7	1.1	1.5	1.9	1.3	7.4
011H011549	AltaSHOCK	CP	PRIDE X ERDMAN	2457	723	884	30	49	1.08	1.74	0.67	2.79	9.2	4.3	3.4	5.3	2.2	5.9
011H011531	AltaSABRE	CP	JACEY X ROBUST	2565	690	1239	55	34	1.81	1.38	1.22	2.52	7.4	3.1	3.5	5.3	3.8	7.4
011H011435	AltaCZAR	CP	MOGUL X NIAGRA	2312	481	949	40	59	1.91	2.27	1.30	2.88	2.1	-3.7	-0.1	0.2	-0.4	6.5
011H011414	AltaPOSSESS	CP	SUPERSIRE X PLAN	2236	547	1745	48	46	0.78	0.43	-0.27	2.92	6.8	1.5	0.6	3.3	1.5	7.3
011H011406	AltaMOPAN	CP	MOGUL X SUPER	2323	478	735	20	47	2.12	2.76	1.96	2.77	4.6	-1.8	0.6	1.6	2.4	7.2
011H011348	AltaBGOOD	CP	ROBUST X MASSEY	2476	673	812	50	62	1.57	2.01	1.03	2.74	5.1	2.9	0.2	1.0	-0.3	7.3
011H011320	AltaPRESET	CP	ROBUST X PLANET	2387	635	1337	34	46	0.95	1.31	0.66	2.67	7.2	3.8	1.5	3.2	4.6	8.3
011H011316	AltaBETTMAN	CP	ROBUST X MAN-O-MAN	2300	566	-46	37	64	0.39	0.53	0.39	3.07	3.4	1.7	3.0	3.7	0.2	5.3
011H011302	AltaALPHA		SHAMROCK X DEANN	2376	619	757	30	54	1.07	0.94	1.38	2.76	6.6	3.2	1.5	3.7	3.0	6.6
011H011298	AltaSANFORD	CP	ROBUST X PLANET	2330	576	631	28	23	0.86	1.03	1.03	2.65	7.8	4.5	3.5	4.5	3.7	5.6
011H011293	AltaECHELON	CP	ROBUST X GOLDWYN	2375	526	1285	39	53	1.76	1.98	1.65	2.84	3.2	-2.0	1.0	1.4	2.9	6.1
011H011256	AltaMACBOOK	CP	BOOKEM X MAC	2375	574	940	37	36	1.14	1.22	1.73	2.65	5.5	0.6	2.1	3.8	3.3	6.4
011H011224	AltaTERRA	CP	PAUL X PLANET	2306	605	1037	36	52	0.84	0.68	0.29	2.99	5.6	3.3	2.0	3.9	2.1	5.5
011H011201	AltaSKODA	CP	NIAGRA X LEIF	2238	432	717	27	23	1.47	2.19	1.76	2.57	4.4	2.8	1.0	0.5	-0.6	6.6
011H011163	AltaPRIVILEGE	CP	OBSERVER X SOCRATES	2163	489	396	21	12	1.16	1.89	-0.08	2.69	6.7	4.4	1.1	2.8	0.7	7.1
011H011116	AltaBOWIE	CP	BOWSER X RAMOS	2153	403	1208	34	-14	0.89	1.31	0.97	3.13	5.4	5.5	5.1	5.2	-1.0	4.1
011H010669	AltaBALBOA	CP	AltaBAXTER X O MAN	2013	344	2142	32	35	0.54	0.31	1.04	2.94	1.5	2.1	-0.1	-0.7	1.0	5.0
011H000573	AltaX P-RED		COLT P-RED X SHOTTLE	2061	365	1012	26	20	0.32	0.96	0.48	2.81	4.0	1.7	1.6	1.8	0.6	7.1
011H000569	AltaDO-RED		DURABLE X LAWN BOY P-RED	1948	310	938	29	43	0.42	0.04	1.16	2.95	1.3	1.3	-1.6	-1.8	-1.8	7.7
			<b>AVERAGE</b>	<b>2336</b>	<b>565</b>	<b>1114</b>	<b>40</b>	<b>48</b>	<b>1.19</b>	<b>1.32</b>	<b>1.00</b>	<b>2.83</b>	<b>5.1</b>	<b>1.6</b>	<b>1.4</b>	<b>2.5</b>	<b>1.4</b>	<b>6.6</b>

- In the genomic age, we are able to predict future inbreeding better than ever before. Genomic tests show the exact genetic profile that each animal received instead of estimating it from the average of his/her parents. So when it comes to AI sires, the genetic profile of each bull known is compared to a random sampling of the population to determine the average inbreeding coefficient. That figure is called GFI or "Genomic Future Inbreeding."
- This list of outcross sires includes only those that are less than 7.5% GFI. Even though some of the bulls above have 'popular' sire stacks, their genomic profile tells us that they are actually less related to the breed than other bulls that appear to be more 'outcross' on paper.
- Depressed performance associated with inbreeding is already adjusted for in the published proofs. That means the evaluations for bulls with high GFI are already more regressed than bulls with lower inbreeding percentages.
- GFI values are calculated in comparison to the average genetic make-up of the breed. However, individual herds can have a very different genetic profile than average. In some herds, a specific sire with low GFI may actually create an inbreeding problem. Whereas, a bull with high GFI may be a great choice for a herd with a genetic profile that varies significantly from the breed average.
- If inbreeding is of concern to you, work with your trusted Alta advisor to set your own genetic plan, so that a more specific inbreeding can be calculated just for your herd through mating and herd ranks.

*Disclaimer: Outcross sires should be defined on an individual herd basis with AltaGPS to determine a true balance between genetic diversity and genetic merit specific to the genetic makeup of your herd*

