

OUTCROSS SIRES

HOLSTEIN – NAAB order

Bull Code	Name	CP	Pedigree	TPI	NM\$	Milk	Pro	Fat	PTAT	UDC	FLC	SCS	PL	LIV	DPR	SCE	SSB	A2A2
11H012071	AltaHORNET		JETT X RODGERS	2588	757	2041	69	58	1.17	1.32	1.09	2.84	6.3	2.0	2.0	6.8	8.3	
11H011940	AltaATANI	CP	SILVER X SUPERSIRE	2571	740	1756	57	83	1.72	1.72	1.34	2.75	5.0	1.3	-0.2	8.5	8.0	
11H011888	AltaDURST	CP	MONTROSS X FREDDIE	2521	705	1961	67	63	1.38	1.75	1.45	2.95	5.4	1.5	1.0	6.3	6.9	✓
11H011877	AltaSTAMP P	CP	MONTROSS X EARNHARDT P	2411	630	2101	62	55	1.43	1.93	1.02	3.08	4.2	1.4	-0.2	6.1	6.2	✓
11H011860	AltaSPARKLE		SPARK X MONTROSS	2555	745	2167	73	64	1.62	2.06	0.63	2.82	5.1	-0.2	-0.4	5.7	6.0	
11H011767	AltaCONCORD	CP	RUBICON X SUPERSONIC	2626	815	999	50	118	1.53	0.97	1.05	2.85	4.5	0.7	0.2	7.2	6.7	
11H011755	COMBINE		BALISTO X YANO	2327	559	141	39	36	0.93	1.00	1.03	2.68	6.0	3.0	1.9	5.6	7.8	✓
11H011740	AltaFACET	CP	AltaSPRING X SUPERSIRE	2600	777	1585	62	98	1.39	1.16	0.93	2.80	4.7	0.4	-0.1	7.9	7.7	
11H011725	AltaAMULET	CP	JOSUPER X MOGUL	2674	803	2352	72	77	2.25	2.40	1.08	2.87	5.7	1.1	-0.2	8.3	7.4	✓
11H011549	AltaSHOCK		PRIDE X ERDMAN	2431	681	975	33	53	0.97	1.63	0.57	2.76	6.6	3.6	2.8	5.7	6.3	✓
11H011531	AltaSABRE	CP	JACEY X ROBUST	2536	666	1259	53	29	1.91	1.44	1.46	2.47	7.2	3.8	2.7	7.2	7.2	✓
11H011472	AltaMEMORIAL	CP	AltaOAK X MAN-O-MAN	2266	566	903	47	53	0.84	1.72	0.66	2.77	4.3	2.8	-2.1	8.3	6.4	
11H011435	AltaCZAR	CP	MOGUL X NIAGRA	2392	538	1083	43	67	2.30	2.85	1.52	2.80	1.5	-3.4	-1.4	6.3	7.4	
11H011414	AltaPOSSESS	CP	SUPERSIRE X PLAN	2324	594	2099	58	59	0.85	0.70	0.06	2.89	4.6	2.2	-0.4	7.4	7.4	
11H011406	AltaMOPAN		MOGUL X SUPER	2364	567	1021	27	56	2.14	2.82	2.13	2.75	4.6	-1.5	-1.1	7.1	7.5	✓
11H011348	AltaBGOOD	CP	ROBUST X MASSEY	2407	638	798	52	65	1.55	1.86	0.95	2.79	4.5	2.7	-1.8	7.2	8.0	
11H011320	AltaPRESET		ROBUST X PLANET	2380	690	1550	40	50	0.96	1.41	0.85	2.65	7.3	5.7	-0.9	8.3	8.4	
11H011316	AltaBETTMAN		ROBUST X MAN-O-MAN	2310	599	-38	38	66	0.38	0.71	0.51	3.04	3.8	2.9	1.9	5.3	5.8	✓
11H011302	AltaALPHA		SHAMROCK X DEANN	2324	568	834	32	57	1.16	0.98	1.35	2.78	3.8	2.7	0.3	6.6	8.2	✓
11H011298	AltaSANFORD	CP	ROBUST X PLANET	2235	509	387	20	15	0.81	0.96	0.91	2.69	7.2	4.7	3.3	5.5	7.7	
11H011293	AltaECHELON	CP	ROBUST X GOLDWYN	2389	555	1407	40	52	1.83	2.06	1.60	2.86	3.1	-0.8	0.9	6.2	6.6	✓
11H011256	AltaMACBOOK	CP	BOOKEM X MAC	2338	570	982	39	42	1.04	1.07	1.51	2.64	4.3	1.3	0.8	6.8	8.3	
11H011224	AltaTERRA	CP	PAUL X PLANET	2298	603	1173	40	55	0.81	0.75	0.38	2.99	4.8	2.8	0.9	5.6	7.9	✓
11H011201	AltaSKODA	CP	NIAGRA X LEIF	2247	460	784	30	27	1.52	2.18	1.67	2.59	4.0	3.9	0.4	6.6	8.5	
11H011100	AltaEVERGLADE	CP	MASSEY X O MAN	2337	523	545	45	75	0.56	0.25	1.38	2.83	0.8	-1.8	1.3	5.5	6.5	✓
11H000569	AltaDO-RED	CP	DURABLE X LAWN BOY P-RED	1958	330	1006	33	45	0.42	0.07	1.09	2.94	1.6	1.7	-2.3	7.8	7.9	✓
			Average	2400	623	1226	47	58	1.29	1.45	1.09	2.80	4.7	1.7	0.4	6.8	7.3	

• **DISCLAIMER: OUTCROSS SIRES SHOULD BE DEFINED ON AN INDIVIDUAL HERD BASIS WITH ALTAGPS. IT'S IMPORTANT TO DETERMINE A TRUE BALANCE BETWEEN GENETIC DIVERSITY AND GENETIC MERIT TO OPTIMIZE GENETIC PROGRESS.**

- 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. 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 related to the population. Even though some of the bulls on this list 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.

