

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
11H012220	AltaTHOR PP		ANSWER PO X OHIO STYLE P	2501	681	1193	56	55	1.22	1.58	1.47	3.04	4.4	1.4	2.8	7.1	6.8	✓
11H011888	AltaDURST	CP	MONTROSS X FREDDIE	2516	681	1906	65	60	1.37	1.69	1.36	3.01	4.7	1.1	2.3	5.7	6.5	✓
11H011860	AltaSPARKLE	CP	SPARK X MONTROSS	2572	752	2200	72	65	1.48	2.09	0.52	2.86	4.9	-0.5	0.8	5.7	6.0	
11H011767	AltaCONCORD		RUBICON X SUPERSONIC	2656	846	984	50	119	1.56	0.91	1.07	2.80	3.9	0.6	1.3	7.8	6.8	
11H011549	AltaSHOCK		PRIDE X ERDMAN	2413	665	966	29	49	0.78	1.46	0.32	2.82	6.8	4.4	4.0	5.6	6.4	✓
11H011531	AltaSABRE		JACEY X ROBUST	2624	690	1044	54	35	1.96	1.34	1.67	2.48	7.7	3.4	4.2	7.1	7.3	✓
11H011472	AltaMEMORIAL	CP	AltaOAK X MAN-O-MAN	2315	592	945	49	56	0.72	1.50	0.91	2.74	4.0	2.8	-0.8	8.3	6.3	
11H011435	AltaCZAR	CP	MOGUL X NIAGRA	2402	548	1133	45	65	2.22	2.54	1.57	2.86	1.8	-3.8	-0.1	6.3	7.5	
11H011348	AltaBGOOD		ROBUST X MASSEY	2415	639	726	50	63	1.53	1.84	0.92	2.81	4.2	3.3	-0.6	7.1	8.0	
11H011302	AltaALPHA		SHAMROCK X DEANN	2362	593	890	33	59	1.20	1.00	1.31	2.78	3.7	2.4	1.2	6.6	8.2	✓
11H011298	AltaSANFORD		ROBUST X PLANET	2268	494	359	21	14	0.68	0.85	0.82	2.67	6.3	4.8	4.9	5.5	8.0	
11H011256	AltaMACBOOK	CP	BOOKEM X MAC	2380	580	1016	40	42	1.03	1.08	1.49	2.61	4.4	1.4	1.7	6.8	8.2	
11H011201	AltaSKODA		NIAGRA X LEIF	2274	453	825	30	26	1.51	2.15	1.70	2.61	3.8	4.1	1.5	6.5	8.5	
11H011100	AltaEVERGLADE	CP	MASSEY X O MAN	2343	538	535	45	73	0.54	0.10	1.30	2.82	0.4	-1.7	2.3	5.5	6.5	✓
			AVERAGE	2432	625	1052	46	56	1.27	1.44	1.17	2.78	4.4	1.7	1.8	6.5	7.2	

• **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.

