

# HOLSTEIN ASSOCIATION

## HIGH RANKING SIRE REPORT - APRIL 2017 - Page 1

**Bulls must have a Minimum of 80% Traditional U.S. Reliability OR 85% Genomic Reliability for Production and Type. No Requirement for Semen Status**

Name		% RHA	NAAB #	SIRE/MGS	PRODUCTION				HEALTH			CONFORMATION				TPI				
					PRO	FAT	MILK	FE %R	SCS	PL %R	FI %R	PTAT %R	UDC	FLC	BSC					
BACON-HILL MONTROSS-ET	TR TP	100-NA	7HO12165	MOGUL x BOLTON	91	91	3063	233	98	3.05	4.6	86	-2	85	2.24	96	1.60	1.87	-0.38	2744G
WOODCREST MOGUL YODER-ET	TR TP	100-NA	7HO12266	MOGUL x PLANET	57	96	1514	199	94	2.96	6.3	84	1.5	77	1.97	88	1.62	1.81	-0.11	2673G
CO-OP UPD HUNTER SALVINO	TV TL	100-NA	1HO11022	HUNTER x MASSEY	70	101	1646	233	98	2.91	2.8	85	2.1	85	1.38	88	1.31	0.16	-0.34	2643G
SEAGULL-BAY SUPERSIRE-ET	TR TP	100-NA	7HO11351	ROBUST x PLANET	70	108	2262	221	99	2.84	6.6	98	.0	99	1.02	99	0.49	0.02	0.09	2603G
SANDY-VALLEY SALOON-ET	TR TY	100-NA	200HO02792	ALTAIOTA x PLANET	78	91	2335	197	98	3.03	1.1	92	-4	93	2.85	97	1.60	1.43	1.67	2599G
S-S-I MOGUL REFLECTOR	TR TP	99-I	7HO12105	MOGUL x SUPER	66	41	1574	137	97	2.80	6.4	85	2.2	81	1.99	93	1.34	1.75	1.21	2590G
MORNINGVIEW MCC KINGBOY-ET	TR TP	99-I	7HO12198	MCCUTCHEN x SUPER	44	48	1415	92	98	2.69	4.5	85	1.4	81	3.28	94	2.61	1.92	1.97	2567G
ROYLANE BOOKEM BOB 5170-ET	TR TP	99-I	7HO11752	BOOKEM x O MAN	55	72	662	179	98	2.99	4.5	88	2.3	88	1.89	95	1.69	0.99	0.68	2564G
DE-SU ROOKIE 11057-ET	TR TP	99-I	7HO11708	BOOKEM x BRONCO	46	84	1150	172	95	2.73	6.0	87	1.6	83	1.77	92	1.31	1.06	-0.26	2555G
S-S-I SNOWMAN MAYFLOWER-ET	TR TP	100-NA	7HO11621	SNOWMAN x SOCRATES	80	57	2587	170	99	2.77	5.6	88	1.3	92	1.02	94	0.47	1.29	0.49	2555G
S-S-I BOOKEM MORGAN-ET	TR TP	99-I	7HO11383	BOOKEM x SHOTTLE	53	65	1526	149	99	2.81	7.0	92	2.4	95	1.55	97	1.14	0.94	0.31	2552G
BACON-HILL MONTY-ET	TR TP	100-NA	14HO07347	MOGUL x BOLTON	64	101	2164	223	92	2.94	4.0	84	-9	77	1.69	88	1.34	1.47	-1.58	2550G
DE-SU 11228 TOPSY-ET	TC TV	99-I	29HO16667	BOOKEM x WATSON	60	82	1389	179	98	2.70	4.7	85	-7	89	1.99	93	1.26	1.32	1.02	2546G
DE-SU NOMINEE-ET	TR TV	99-I	200HO06528	NUMERO UNO x MASSEY	48	56	1260	135	99	2.63	6.7	86	4.3	90	0.95	96	0.80	0.80	0.27	2544G
S-S-I SUPERSIRE TETRIS-ET	TR TP	99-I	7HO11985	SUPERSIRE x DOMAIN	67	95	2178	208	91	2.84	6.0	84	.1	75	0.93	86	0.78	-0.01	-0.48	2543G
VIEW-HOME MONTEREY-ET	TC TV	99-I	29HO16955	MCCUTCHEN x ROBUST	34	52	758	106	93	2.92	6.1	83	1.0	75	3.20	86	3.07	2.47	0.75	2542G
HAR-DALE-ACRES-JP ALTACR-ET	TC TV	100-NA	11HO11434	MOGUL x TRIGGER	38	83	679	168	96	2.90	5.9	84	1.3	78	1.70	85	2.25	1.85	-0.44	2531G
PENN-ENGLAND GIFIAN 903A-ET	TR TP	100-NA	14HO07324	MOGUL x BOXER	64	67	2543	158	94	2.80	4.6	84	.6	78	1.81	88	1.32	1.51	-0.32	2526G
S-S-I EPIC MIDNIGHT-ET	TR TP	100-NA	7HO11946	EPIC x SOCRATES	46	60	1026	142	98	2.75	8.1	86	3.4	86	0.72	93	1.24	0.60	0.19	2525G
DE-SU 11236 BALISTO-ET	TC TV	99-I	29HO16714	BOOKEM x WATSON	62	76	774	199	99	2.73	4.5	87	-6	90	1.51	97	0.96	1.50	0.44	2506G
SANDY-VALLEY STERLING-ET	TR TP	100-NA	7HO11585	ROBUST x PLANET	62	55	1985	143	99	3.16	6.1	95	1.5	96	2.12	98	1.20	1.33	0.55	2506G
CO-OP MOGUL LAWMAN-ET	TC TV	100-NA	1HO11545	MOGUL x MAN-O-MAN	55	65	1223	159	95	2.85	3.1	85	.6	79	1.98	86	1.91	2.12	0.50	2501G
COYNE-FARMS JACEY CRI-ET	TV TL	99-I	1HO10788	ALTAIOTA x MASSEY	57	14	1599	87	99	2.49	4.4	92	3.7	96	1.76	99	1.48	1.60	1.13	2500G
CO-OP DAY TAURINO-ET	TC TV	99-I	1HO11427	DAY x PLANET	38	72	1010	146	97	2.78	6.6	86	1.8	83	1.65	90	2.34	0.88	-0.36	2496G
MR OCD ROBUST DONATELLO-ET	TR TP	100-NA	7HO11525	ROBUST x PLANET	47	73	1142	174	99	2.88	5.6	91	2.4	94	1.10	97	1.10	0.69	-1.23	2495G
MOUNTFIELD SSI DCY MOGUL-ET	TR TP	100-NA	7HO11314	DORCY x MARSH	40	81	1264	153	99	2.98	4.3	99	-2	99	2.30	99	2.48	2.42	-0.26	2494G
DE-SU MG DAVINCI 11288-ET	TR TP	100-NA	7HO12014	MOGUL x WATSON	47	78	816	166	96	2.81	4.6	84	-1.1	84	2.14	94	2.29	1.96	0.57	2491G
MATT-DARI MOGUL PAYTON-ET	TR TP	100-NA	14HO07340	MOGUL x MAN-O-MAN	47	64	1084	142	94	2.81	4.1	84	1.9	77	1.49	89	1.89	1.06	0.64	2489G
MR WELCOME HILL TANGO-ET	TC TV	100-NA	1HO10824	HILL x COLBY	57	70	2151	155	99	2.94	3.5	91	2.1	96	1.49	99	1.33	1.02	-0.21	2489G
CO-OP ROBUST CABRIOLET-ET	TC TV	99-I	1HO10396	ROBUST x PLANET	50	101	960	222	99	2.99	7.4	94	1.8	96	0.25	98	0.09	-0.45	-1.57	2487G
FARNEAR-BH MR MCGIRT-ET	TR TP	100-NA	7HO12131	MOGUL x DOMAIN	50	73	1972	122	94	2.81	3.9	85	.7	81	1.74	90	1.44	1.80	1.84	2487G
S-S-I SHAMROCK MYSTIC-ET	TR TP	100-NA	7HO11395	SHAMROCK x SHOTTLE	41	63	1014	138	95	2.77	7.8	87	4.8	83	0.66	91	0.27	-0.37	-0.06	2482G
LADYS-MANOR GRAF LA-BRON-ET	TC TV	99-NA	29HO16701	GRAFEETI x SUPER	47	70	1355	156	98	2.79	5.4	85	2.6	88	1.20	96	1.15	0.66	-0.50	2480G
CO-OP DAY TWINKIE-ET	TC TV	99-I	1HO11425	DAY x PLANET	55	69	1975	160	94	2.80	6.4	85	1.5	78	1.10	85	1.62	-0.19	-0.71	2478G
EDG SKATEBOARD-ET	TY	100-NA	200HO06530	NUMERO UNO x RUSSELL	22	99	121	151	93	2.65	4.4	84	2.2	79	1.81	92	1.99	0.75	0.73	2478G
MAPEL WOOD BREWMASTER-ET	TR TP	100-NA	250HO01009	GARRETT x SHOTTLE	32	98	886	156	96	2.72	3.3	89	2.0	88	1.69	94	1.11	1.45	0.43	2478G
SPRUCE-HAVEN STOIC-ET	TC TV	99-I	1HO11048	EPIC x TRIGGER	55	40	1300	130	97	2.73	7.2	85	1.4	83	1.55	92	1.65	0.72	0.29	2478G
KINGS-RANSOM R RACKET-ET	TR TP	100-NA	7HO11519	ROBUST x MANGO	52	69	936	174	94	2.95	6.2	87	1.5	83	0.86	92	0.99	1.31	-0.32	2477G
BUSH-BROS ALTBGOOD	TC TV	98-NA	11HO11348	ROBUST x MASSEY	56	68	931	172	96	2.82	5.0	83	.3	84	1.28	88	1.67	0.83	0.48	2475G
STANTONS MAIN EVENT-ET	TR TP	100-NA	250HO01127	MOGUL x SUPER	26	49	476	92	91	2.78	6.4	84	2.6	76	2.10	89	2.36	2.36	0.79	2473G

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Bulls must have a Minimum of 80% Traditional U.S. Reliability OR 85% Genomic Reliability for Production and Type. No Requirement for Semen Status

Name		% RHA	NAAB #	SIRE/MGS	PRODUCTION					HEALTH			CONFORMATION							
					PRO	FAT	MILK	FE	%R	SCS	PL %R	FI %R	PTAT %R	UDC	FLC	BSC	TPI			
S-S-I TWIST MONARCH-ET	TV TL	100-NA	7HO11386	TWIST x SHOTTLE	40	67	806	133	99	2.96	6.9	90	4.8	93	0.40	93	0.56	1.16	0.97	2472G
SEAGULL-BAY HEADLINER-ET	TR TP	100-NA	7HO11419	ROBUST x PLANET	66	77	1908	180	99	3.19	2.1	95	-2	97	2.34	99	1.58	1.97	0.47	2472G
MICHIGAN BUMBLEBEE-ET	TC TV	99-I	1HO10838	BOOKEM x BRONCO	40	84	1318	133	94	3.02	4.4	85	.7	81	2.11	91	1.60	2.22	1.54	2471G
ZIMMERVIEW MOGUL BUTLER-ET	TR TP	100-NA	7HO12195	MOGUL x PLANET	56	54	1489	147	95	2.91	6.3	85	.2	79	1.75	89	1.25	1.86	0.05	2470G
S-S-I MOGUL MULTIPLY-ET	TR TP	99-I	7HO11915	MOGUL x ROBUST	23	56	52	107	94	2.79	7.4	84	2.4	78	1.34	91	2.17	2.76	0.58	2469G
DE-SU MGL GARZA 11388-ET	TV TL	100-NA	7HO12024	MOGUL x PLANET	38	64	976	119	94	2.87	5.0	85	1.1	81	2.09	90	2.05	1.81	1.09	2466G
WELCOME MOGUL HADWIN-ET	TV TL	99-I	7HO12122	MOGUL x O-STYLE	47	43	1368	133	94	2.85	7.2	85	3.1	80	1.23	90	0.97	0.95	-1.15	2465G
DE-SU BKM MCCUTCHEN 1174-ET	TR TP	99-I	7HO11477	BOOKEM x SHOTTLE	34	54	882	89	99	2.83	4.0	98	-.1	98	3.13	99	2.87	2.48	2.08	2464G
MR WELCOME SSI UNO TATUM-ET	TV TL	100-NA	7HO13022	NUMERO UNO x COLBY	38	52	1078	113	94	2.84	4.8	84	1.9	78	2.57	89	2.21	1.33	0.31	2464G
APINA ALTAEMBASSY-ET	TC TV	99-NA	11HO11143	FREDDIE x PLANET	32	75	1592	99	98	2.64	5.7	89	2.6	91	1.38	97	1.12	0.92	1.47	2462G
L-L-M-DAIRY ALTAPONDER-ET	TV TL	100-I	11HO11287	SHAMROCK x JET STREAM	43	33	1740	93	94	2.73	7.5	84	3.7	81	1.62	92	1.27	0.82	-0.37	2462G
SULLY MUNITION-ET	TY TD	100-NA	200HO03859	ROBUST x PLANET	46	53	1179	137	96	2.87	6.9	86	2.8	86	0.95	93	1.33	0.48	-0.35	2462G
SIEMERS MOGUL PETY	TR TC	100-NA	7HO12139	MOGUL x EXPLODE	45	53	1321	132	96	2.96	4.5	85	-.4	80	2.74	91	2.86	1.72	-0.38	2457G
SULLY ROBUST MONOCEROTIS-ET	TR TP	100-NA	7HO11839	ROBUST x PLANET	56	56	1744	163	95	2.85	6.2	87	1.9	83	0.94	93	0.57	0.73	-1.53	2451G
ROYLANE SOCRA ROBUST-ET	TR TV	100-NA	7HO10524	SOCRATES x O MAN	44	74	992	170	99	2.95	6.7	99	1.9	99	0.74	99	0.72	1.01	-1.02	2450G
SULLY ALTAMERCI-ET	TC TV	100-NA	11HO11283	ROBUST x PLANET	55	73	1690	168	99	2.87	5.8	87	2.0	92	0.45	97	0.67	0.08	-0.47	2450G
LADYS-MANOR GREGARIOUS-ET	TR TP	100-NA	7HO12157	MOGUL x BRONCO	36	70	806	131	92	2.98	3.9	84	2.0	77	2.00	87	1.90	2.11	0.67	2449G
CO-OP ROBUST YOOHOO-ET	TC TV	100-NA	1HO10579	ROBUST x ENCINO	35	48	623	122	99	3.01	6.4	90	5.1	96	0.81	93	1.03	1.35	-0.42	2448G
MORNINGVIEW MGL UPTOWN-ET	TR TP	100-NA	7HO12197	MOGUL x SUPER	33	49	1217	80	93	2.63	4.3	84	.9	77	2.61	87	2.69	2.05	1.49	2446G
DE-SU ALTAGILCREST-ET	TC TV	100-NA	11HO11272	ALTAGREATEST x GOLDWYN	67	60	2498	161	97	2.95	4.2	86	.2	86	1.65	94	1.42	0.71	-0.56	2444G
CO-OP RAINIER-ET	TC TV	100-NA	1HO10559	OBSERVER x SHARKY	49	88	1672	173	99	2.87	5.6	92	2.4	96	0.29	95	0.47	-0.18	-0.48	2438G
RIVER-BRIDGE CO-OP TROY-ET	TC TV	99-NA	1HO11056	MOGUL x FREDDIE	42	43	1102	120	98	2.93	8.0	85	3.0	83	0.83	93	1.09	1.36	-0.45	2438G
NO-FLA EMULATE 30309-ET	TR TP	99-I	7HO11546	BOOKEM x O MAN	48	73	1565	153	98	2.86	5.3	91	1.7	91	1.19	94	0.66	0.82	-0.17	2437G
MR OCD EPIC DRAGONHEART-ET	TR TP	100-NA	7HO12111	EPIC x PLANET	44	48	1918	107	91	2.92	6.6	83	1.5	84	1.96	86	2.04	1.06	-0.27	2436G
SULLY HART MERIDIAN-ET	TR TV	100-NA	200HO02770	DOMAIN x PLANET	52	34	2229	90	99	2.91	4.2	95	.2	96	3.07	99	2.75	0.85	0.63	2435G
MELARRY PETRONE FLORES-TW	TR TP	100-NA	7HO12126	PETRONE x PRONTO	24	15	844	30	93	2.87	7.6	84	6.3	77	1.76	91	1.25	2.07	1.55	2433G
ROYLANE BOXER PUNCH 4311-ET	TR TP	100-NA	7HO11207	BOXER x O MAN	41	57	571	112	99	2.88	3.3	96	3.9	96	1.56	98	0.89	1.67	2.36	2430G
PEN-COL MERRICK	TC TV	100-NA	29HO17503	MOGUL x MAN-O-MAN	36	66	1281	110	92	2.81	1.0	84	-.2	77	3.12	86	2.72	2.57	1.10	2429G
WINNING-WAY MADEA-ET	TC TV	100-NA	29HO16845	O-STYLE x PLANET	48	56	2132	129	94	2.80	6.0	85	2.0	81	1.28	90	0.83	1.03	-0.99	2427G
DE-SU MGL GREENWAY 11396-ET	TR TP	100-NA	7HO12026	MOGUL x PLANET	54	72	1545	165	97	3.05	4.0	85	.9	85	1.78	95	0.83	1.43	-0.20	2426G
SEAGULL-BAY MVP-ET	TC TV	100-NA	29HO16888	MOGUL x PLANET	42	67	626	153	96	2.87	4.6	86	.7	84	1.88	90	1.51	1.57	0.06	2426G
TAG-LANE SUDAN JAROD-ET	TC TV	98-NA	29HO16862	SUDAN x PLANET	61	83	1478	195	93	3.01	4.9	83	.2	78	0.99	88	0.96	-0.03	-0.19	2426G
MR MOVIESTAR MARDI GRAS-ET	TR TP	100-NA	534HO00025	MOGUL x PLANET	30	54	521	107	94	2.84	5.6	84	2.2	78	1.87	92	2.41	1.04	0.68	2425G
PINE-TREE ALTAOAK-ET	TC TV	99-I	11HO11202	NIAGRA x LEIF	55	66	1953	128	99	2.68	4.5	94	-.5	96	1.50	99	1.25	1.15	1.58	2425G
RICHMOND-FD JC BARNABY-ET		100-NA	7HO12168	CAMERON x SUPER	24	46	583	83	94	2.60	7.0	84	3.3	78	1.49	88	1.56	1.55	0.66	2421G
SIEMERS MCCUTCH KIAN-ET	TV TL	99-I	7HO12222	MCCUTCHEN x EXPLODE	42	39	1600	68	92	2.72	4.0	81	-.3	75	2.78	87	2.70	2.25	2.31	2421G
UECKER LARGE JOCLAY-ET	TC TV	100-NA	29HO16947	LARGE x DORCY	42	54	1624	104	92	2.94	3.1	84	.0	77	2.78	89	2.94	1.84	0.78	2421G
DYMENTHOLM S SYMPATICO-ET	RC TV	100-NA	200HO02828	SNOWMAN x PLANET	45	73	1749	150	99	2.76	4.5	92	.4	94	1.58	98	1.37	1.04	-0.86	2420G
LE-O-LA MOGUL GAMBLER	TR TP	100-NA	14HO07303	MOGUL x G W ATWOOD	34	37	1342	87	89	2.73	6.2	82	1.3	75	2.31	85	2.02	2.07	-0.27	2420G
OCD SUPERSIRE LIGHTS OUT-ET	TV TL	100-NA	7HO12183	SUPERSIRE x DESTROY*RC	45	58	1300	113	92	2.69	5.3	83	1.5	76	1.53	85	1.31	0.18	1.59	2420G

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					PRO	FAT	MILK	FE	%R	SCS	PL %R	FI %R	PTAT %R	UDC	FLC	BSC	TPI			
LOOKOUT PESCE ALTAKADO-ET	TC TV	100-NA	11HO11405	ALTAIRNET x MAN-O-MAN	52	38	1683	108	98	2.73	3.4	85	3.2	83	1.06	86	1.01	0.85	0.61	2419G
L-L-M-DAIRY PRESIDENT-ET	TY	100-I	200HO06540	NUMERO UNO x MILLION	33	46	1006	99	95	2.79	6.5	85	2.6	78	1.56	87	1.68	0.96	0.13	2414G
MINNIGAN-HILLS DAY-ET	TC TV	100-NA	1HO10458	SUPER x BOLTON	41	38	1442	95	99	2.68	5.8	98	1.6	98	1.82	99	2.03	0.84	0.19	2410G
PRIDE MOGUL TALLYHO 165-ET	TR TP	99-I	14HO07358	MOGUL x FREDDIE	23	51	454	102	91	2.74	6.2	83	2.8	74	1.30	86	1.81	2.16	-0.29	2410G
DE-SU RENNIE 11023-ET	TR TP	100-NA	7HO11833	ROBUST x PLANET	43	77	1263	168	95	3.02	7.0	87	.8	84	1.15	93	1.48	-0.20	-1.31	2409G
S-S-I TWIST MOMENTUM-ET		100-NA	7HO11387	TWIST x SHOTTLE	55	38	1782	109	95	2.95	7.7	87	4.3	83	-0.01	90	0.08	0.51	0.85	2409G
WA-DEL OSTYLE BARRET-ET	TR TP	100-NA	14HO07270	O-STYLE x SHOTTLE	34	31	1441	55	91	2.78	4.2	85	3.0	77	2.15	89	1.97	2.08	1.53	2409G
SANDY-VALLEY SLATE-ET	TR TP	100-NA	7HO12151	MOGUL x PLANET	59	59	1526	146	93	3.07	4.4	84	-.4	79	2.26	89	1.31	1.39	1.03	2408G
TRANQUILLITY AC PRIDE-ET	TV TL	100-NA	147HO02442	ROBUST x BOLIVER	32	87	661	162	95	3.08	6.9	83	1.7	81	1.02	93	1.22	0.52	-0.62	2408G
DE-SU 11528 CAPTIVATE-ET	TV TL	100-NA	29HO16939	MOGUL x TRIGGER	46	69	1068	160	91	2.99	2.8	84	.0	76	1.99	86	2.14	1.61	-0.53	2407G
ROYLANE BOOKEM KRUZ 5454-ET	TR TP	99-I	14HO07044	BOOKEM x O MAN	52	70	571	165	91	3.00	3.7	85	1.6	79	1.04	89	0.49	1.64	1.25	2407G
SANDY-VALLEY SUTTON-ET	TR TP	100-NA	7HO11757	ROBUST x PLANET	57	43	1701	120	95	2.94	5.3	87	1.1	83	1.61	93	0.87	1.28	0.93	2405G
KERNDTWAY KINGPIN-ET	TV TL	99-I	7HO12228	MCCUTCHEN x OBSERVER	28	53	672	87	89	2.63	4.6	82	.6	74	2.61	85	2.21	1.73	1.54	2404G
DE-SU MAG OGLETREE 11237-ET	TV TL	100-NA	7HO12012	MAGNUS x RUSSELL	36	79	378	141	95	2.75	3.3	85	3.6	81	0.62	88	0.17	0.81	1.58	2403G
RJR CHARLESTON-ET	TV TL	100-NA	7HO12072	PETRONE x SHOTTLE	11	52	164	70	93	2.64	5.7	84	3.0	80	2.70	89	2.18	1.38	0.79	2402G
DE-SU ALTAMELHOR-ET	TV TL	100-NA	11HO11077	AL x O MAN	33	51	451	95	98	2.58	4.2	93	1.6	91	1.85	93	1.47	2.41	1.97	2400G
RICHMOND-FD EL BOMBERO-ET	TR TV	100-NA	200HO03950	NUMERO UNO x SUPER	29	52	1270	78	97	2.62	6.2	84	1.7	79	2.01	94	1.61	0.85	1.15	2399G
DE-SU ROBUST ZEUS 11009-ET	TR BY	100-NA	7HO11597	ROBUST x PLANET	50	37	1452	115	98	3.18	6.5	88	1.4	89	1.47	94	1.83	1.71	0.06	2397G
SEAGULL-BAY ALLSTAR-ET	TV TL	100-NA	97HO41052	MOGUL x PLANET	47	74	1670	148	90	2.99	3.6	83	-1.5	77	2.53	85	2.16	1.72	-0.10	2397G
WELCOME SUPER PETRONE-ET	TR TP	100-NA	7HO11169	SUPER x ALTABAXTER	9	39	549	47	99	2.63	7.2	98	5.9	98	1.12	99	1.42	1.18	0.36	2397G
DE-SU ROBUST ERIC 11024-ET	TR TP	99-I	7HO11598	ROBUST x RAMOS	31	43	438	94	95	2.76	6.6	86	2.8	83	1.44	92	1.23	1.41	1.04	2396G
SULLY ALTAMANDATO-ET	TC TV	100-NA	11HO11350	NUMERO UNO x PLANET	23	58	717	94	95	2.69	5.5	85	2.0	82	1.87	87	2.01	1.12	0.48	2394G
DALLERA GUAPA-ET	TC TV	100-NA	29HO16804	LARGE x JEEVES	28	12	1092	42	93	2.81	5.9	84	3.7	79	2.75	91	2.33	1.88	0.45	2392G
S-S-I MCCUTCHEN MATTEUS-ET		99-I	7HO11964	MCCUTCHEN x ROBUST	29	52	507	81	93	3.01	4.4	84	.8	78	2.63	88	2.38	2.57	2.44	2391G
HENDEL-VATLAND MIKEN-ET	TV TL	100-NA	7HO12129	MOGUL x MAN-O-MAN	51	72	1674	142	94	3.05	.8	84	-.7	79	2.19	91	2.21	1.70	0.90	2390G
BOMAZ ALTAENTRUST-ET	TC TV	100-NA	11HO11314	ROBUST x MAN-O-MAN	40	70	505	155	98	2.70	4.3	86	1.8	84	0.90	89	0.54	0.90	0.04	2388G
LADYS-MANOR GRA MC GRAW-ET	CD TV	99-I	7HO12158	MCCUTCHEN x FREDDIE	48	73	1519	157	92	2.96	3.8	84	-1.0	76	1.97	85	1.75	1.12	-0.40	2388G
RICHLAWN DNM AMBIENT CRI-ET	TV TL	99-NA	1HO11161	DENIM x SUPER	33	22	1004	55	95	2.48	7.7	85	4.6	81	0.37	86	0.74	1.06	1.41	2388G
BACON-HILL LAYNE PICARD-ET	TR TP	99-I	7HO12120	LAYNE x BOWSER	46	19	1340	84	94	2.84	4.7	85	2.8	81	1.41	90	1.89	1.21	0.42	2387G
NO-FLA ALTAEVERGLADE-ET	TC TV	100-NA	11HO11100	MASSEY x O MAN	47	78	617	155	99	2.84	1.4	93	2.0	95	0.54	92	0.35	1.52	1.79	2387G
S-S-I MOGUL MANDALAY-ET	TR TP	100-NA	7HO12007	MOGUL x SOCRATES	58	33	1617	116	93	3.02	4.2	85	.5	79	2.04	90	2.04	1.71	0.71	2387G
BACON-HILL O MOHAWK-ET	TR TP	100-NA	7HO11787	O-STYLE x BOLTON	73	84	2554	203	97	3.01	1.9	86	-1.2	85	1.04	93	0.45	1.30	-0.76	2386G
MURI SERSE-ET	TV TL	99-I	200HO07763	NUMERO UNO x PLANET	41	67	990	134	90	2.73	4.7	82	1.5	72	1.68	85	1.20	0.23	0.71	2386G
MELARRY ROBUST MILES-ET	TR TP	100-NA	7HO11836	ROBUST x AL	44	77	979	176	98	2.89	3.7	87	.4	89	1.39	95	1.04	1.07	-1.19	2385G
WINDSOR-MANOR DISPATCH-ET		100-NA	7HO12160	MOGUL x SHOTTLE	28	47	871	88	92	2.78	5.2	84	1.6	75	2.06	85	2.10	1.83	0.48	2385G
MR WELCOME TEACHER-ET	TY	100-NA	200HO03934	GILBY x COLBY	64	31	2224	115	94	2.93	3.0	84	1.0	78	1.78	89	1.32	1.01	0.41	2384G
KELLERCREST MOGUL LIESEL-ET	TR TP	100-NA	7HO12134	MOGUL x SUPER	33	32	1065	82	93	2.68	6.2	84	2.0	79	1.67	90	2.02	1.45	0.08	2382G
SPRUCE-HAVEN LAGRANDE-ET	TV TL	100-NA	29HO16932	LARGE x CHASE	38	56	1242	101	92	2.59	4.0	83	.4	76	1.69	86	2.20	0.77	1.25	2382G
SULLY MCCORD 269-ET	TR TP	99-NA	250HO11837	GRAFEETI x PLANET	35	68	905	139	91	2.92	3.8	83	1.5	80	1.63	87	1.63	0.82	-0.49	2382G
SULLY MORDEN 270-ET	TR CD	99-NA	7HO11838	GRAFEETI x PLANET	46	77	1302	170	97	2.98	3.1	86	.7	85	1.34	93	1.16	1.11	-1.03	2380G

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# HOLSTEIN ASSOCIATION

## HIGH RANKING SIRE REPORT - APRIL 2017 - Page 4

Bulls must have a Minimum of 80% Traditional U.S. Reliability OR 85% Genomic Reliability for Production and Type. No Requirement for Semen Status

Name		% RHA	NAAB #	SIRE/MGS	PRODUCTION				HEALTH			CONFORMATION				TPI				
					PRO	FAT	MILK	FE %R	SCS	PL %R	FI %R	PTAT %R	UDC	FLC	BSC					
FARNEAR-TBR-BH GUMBO-ET	TV TL	100-NA	29HO17511	MOGUL x SUPER	41	68	1477	136	92	2.92	3.9	84	.4	77	1.93	88	1.57	1.53	-0.35	2379G
MOUNTFIELD MSY MAURICE-ET	TR TV	100-NA	7HO11138	MASSEY x BOLIVER	36	65	459	140	99	2.67	6.9	96	1.7	97	0.23	98	0.77	0.67	0.23	2379G
STE ODILE PURE-ET	B/R TV	100-NA	200HO10024	MOGUL x MAN-O-MAN	52	59	1754	144	94	3.24	3.2	83	.9	77	1.73	88	1.74	1.38	-0.45	2379G
DE-SU GRAZE 11125-ET	TR TP	100-NA	7HO11774	ROBUST x SHOTTLE	29	51	1164	79	91	2.70	5.4	85	.5	80	2.17	89	1.76	2.64	1.18	2378G
DE-SU LTM PONDER 11345-ET	TV TL	100-NA	7HO12021	LITHIUM x RUSSELL	28	34	944	71	97	2.78	8.9	85	5.4	82	-0.29	91	0.63	0.10	0.47	2378G
S-S-I COBRA MCLOVIN-ET	TR TP	100-NA	7HO11636	COBRA x SOCRATES	42	71	653	149	93	2.74	3.8	85	1.9	80	1.05	90	0.42	1.26	0.71	2377G
SULLY ROBUST MANZIEL-ET	TV TL	100-NA	203HO01351	ROBUST x PLANET	31	47	842	105	98	2.77	6.4	86	3.3	87	0.88	88	1.15	0.40	-0.32	2377G
BENNER BRIGHTLITE-ET	TV TL	100-NA	200HO02980	MOGUL x ALTABAXTER	36	71	985	131	93	2.74	4.3	85	.4	78	1.21	90	1.66	1.27	0.46	2376G
DE-SU 11565 NIKITA-ET	TC TV	100-NA	29HO16886	MOGUL x PLANET	47	66	1275	144	91	2.89	5.4	84	.8	77	1.51	88	0.84	1.06	0.28	2376G
OCD MAGNUS MICHAEL J FOX-ET	TR TP	100-NA	250HO12050	MAGNUS x GOLDWYN	44	66	755	159	90	2.90	.0	83	1.6	83	2.05	85	1.66	1.08	-0.40	2376G
OCD MAYFIELD DECEIVER-ET	TR TP	100-NA	7HO12115	MAYFIELD x DORCY	28	44	1071	83	94	2.99	5.2	84	3.5	79	1.53	89	1.91	1.21	0.18	2376G
AMIGHETTI NUMERO UNO-ET	TV TL	100-NA	200HO07450	MAN-O-MAN x SHOTTLE	5	54	-350	72	99	2.60	6.7	98	2.8	98	2.26	99	2.24	1.24	0.82	2374G
BOMAZ ALTAGRAVITY-ET	TR TV	99-I	11HO11353	ALTAGREATEST x SUPER	60	54	2177	145	93	2.88	5.1	84	.3	78	1.10	86	1.05	-0.25	-0.45	2373G
LADYS-MANOR MOG LANDOVER-ET	TC	100-NA	29HO16971	MOGUL x SUPER	32	35	844	84	91	2.89	5.1	84	2.0	77	1.87	87	2.01	2.37	0.43	2373G
COMESTAR LAUTRUST	TR TV	100-NA	200HO03910	SUDAN x MAN-O-MAN	45	57	1008	133	90	2.90	2.7	74	1.3	72	1.71	85	1.60	1.41	0.53	2372G
DE-SU MGL JENNINGS 11400-ET	TR TP	100-NA	7HO12027	MOGUL x OBSERVER	35	56	203	124	94	2.84	4.0	85	1.6	81	1.41	91	1.59	1.90	0.96	2371G
CALBRETT BUDDY-ET	TR TV	100-NA	200HO10044	NUMERO UNO x SUPER	27	31	264	75	90	2.66	5.5	81	2.0	73	2.33	85	2.14	1.59	1.04	2370G
S-S-I MAXUM MATER-ET	TR TP	100-NA	7HO11641	MAXUM x SHOTTLE	32	48	802	86	91	2.94	7.3	85	3.1	78	0.88	86	1.31	1.03	1.58	2370G
COOKIECUTTER ML HANGOVER-ET	TR TP	100-NA	14HO07231	MOGUL x MAN-O-MAN	40	79	1086	145	96	2.77	1.3	85	-1.0	82	2.14	92	1.92	1.77	0.56	2369G
SLO-TRAIN ALTACAIN	TC TV	100-NA	11HO11337	MAUI x INDIANA	34	63	593	141	97	2.74	4.7	84	1.4	82	1.13	89	1.47	0.89	-0.67	2369G
COOKIECUTTER HATHAWAY-ET	TY	100-NA	200HO03930	SUPERSONIC x MAN-O-MAN	45	41	825	126	90	2.90	2.7	83	1.7	83	2.01	85	1.95	0.79	-0.05	2368G
BUTZ-HILL MEGASIRE-ET	TC TV	100-NA	151HO00680	SUPERSIRE x MAN-O-MAN	26	58	111	108	96	2.78	4.9	85	1.8	79	1.52	91	1.55	0.96	1.10	2365G
COASTAL-VIEW MOOKIE-ET	TR TP	100-NA	14HO07328	MOGUL x OBSERVER	24	85	68	149	93	2.94	4.9	82	.9	73	1.50	85	1.73	1.07	0.00	2365G
OCD MCCUTCHEN FEARLESS-ET	TV TL	99-I	7HO12179	MCCUTCHEN x GOLDWYN	38	81	949	152	91	2.85	3.4	84	-.7	77	2.09	86	1.47	1.60	0.11	2364G
S-S-I ROBUST BIGGIO-ET	TR TP	100-NA	7HO11373	ROBUST x PLANET	55	76	1052	180	94	2.89	4.4	87	-.4	83	1.05	92	0.75	0.20	0.18	2364G
COYNE-FARMS BRONCO YENNY-ET	TC TV	100-NA	29HO16575	BRONCO x SHOTTLE	55	56	1954	126	95	2.65	4.3	86	.0	83	0.83	90	0.95	0.90	0.80	2363G
COYNE-FARMS SROCK MACK-ET	TR TP	100-NA	7HO11853	SHAMROCK x JET STREAM	11	46	115	59	99	2.84	6.0	87	3.0	91	2.32	99	2.25	1.99	1.25	2363G
DE-SU 11491 FOSTER-TW	BY TC	99-I	29HO16915	MOGUL x RAMOS	35	43	773	95	95	2.78	6.4	85	1.6	81	1.32	90	0.93	1.90	0.94	2362G
SANDY-VALLEY SS DEYJA-ET	TV TL	99-I	7HO12219	SUPERSIRE x ALTAMETEOR	42	36	1238	94	93	2.93	5.9	84	.5	76	1.88	86	2.34	0.98	0.67	2362G
HAMMER-CREEK AIRNET KYLE	TV TL	100-NA	29HO16930	ALTAIRNET x SPEARMINT	40	34	1207	92	92	2.58	4.8	83	1.8	76	1.62	87	1.36	0.93	0.37	2361G
LADYS-MANOR SHAM GRIN-ET	TR CD	99-NA	7HO11725	SHAMROCK x FREDDIE	49	65	1605	170	95	3.01	5.8	86	1.2	82	1.11	92	0.53	0.18	-2.23	2361G
VAL-BISSON DOORMAN-ET	TV TL	99-I	200HO06480	BOOKEM x SHOTTLE	26	42	43	75	99	2.56	2.7	92	-.3	94	3.59	99	2.57	2.13	2.35	2361G
BOMAZ ALTAROTO-ET	TC TV	100-NA	11HO11357	ROBUST x MAN-O-MAN	37	66	618	139	90	2.86	4.2	84	3.0	78	0.91	88	0.57	0.44	0.21	2360G
BUTZ-HILL VERSATILE-ET	TC TV	100-NA	29HO16980	MOGUL x MAN-O-MAN	47	69	1433	162	94	3.01	3.5	84	.5	77	1.13	87	1.27	1.18	-1.18	2360G
MOUNTFIELD MXR CLARENCE-ET	RC	100-NA	7HO12103	MIXER x DESTROY*RC	21	64	-484	125	92	2.76	2.6	84	.9	77	2.45	87	2.72	1.77	0.59	2360G
RUGG-DOC COMAN-ET	TR TP	100-NA	14HO07288	EPIC x OBSERVER	42	21	1121	67	91	2.56	5.5	84	1.1	76	2.19	91	2.14	1.03	1.70	2360G
SANDY-VALLEY-I COURAGE-ET	TV TL	100-NA	200HO06570	MERIDIAN x SUPER	28	59	411	100	92	2.72	4.0	84	.7	76	2.19	89	2.56	0.72	1.59	2359G
BACON-HILL MONTAWK-ET	TV TL	100-NA	7HO12062	O-STYLE x BOLTON	69	99	2366	211	94	3.14	2.3	85	-1.8	81	0.85	90	0.37	1.25	-0.39	2358G
DE-SU SMK DOLLARS 1309-ET	TR TP	100-NA	7HO11568	SHAMROCK x GOLDWYN	28	35	1118	76	98	2.76	7.3	89	4.4	87	0.66	95	1.34	-0.25	-0.15	2358G
SPRUCE-HAVEN ALTAALPHA-ET	TC TV	100-NA	11HO11302	SHAMROCK x DEANN	29	54	785	110	99	2.77	6.4	86	2.5	90	1.10	90	0.77	1.06	-0.30	2358G

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Name		% RHA	NAAB #	SIRE/MGS	PRODUCTION				HEALTH			CONFORMATION				TPI				
					PRO	FAT	MILK	FE %R	SCS	PL %R	FI %R	PTAT %R	UDC	FLC	BSC					
BOMAZ ALTAMACBOOK-ET	TC TV	99-I	11HO11256	BOOKEM x MAC	39	35	966	117	93	2.68	5.6	84	2.0	79	1.13	89	0.95	1.39	-1.26	2357G
DE-SU LTM RODGERS 11379-ET	TR TP	100-NA	7HO12023	LITHIUM x RUSSELL	29	55	737	106	98	2.73	8.4	85	3.9	83	-0.05	93	0.05	0.09	0.20	2357G
SYNERGY ALTAHAYMAKER-ET	TV TL	100-NA	11HO11398	PUNCH x SEBASTIAN	23	39	84	81	89	2.75	6.1	83	4.0	74	1.44	85	0.94	1.72	1.02	2357G
CO-OP CHAP CHRISTO-ET	TC TV	99-I	1HO10989	CHAP x PLANET	66	66	1909	172	98	3.25	2.9	86	-1.2	90	2.03	92	1.34	0.55	0.10	2354G
SEAGULL-BAY SARGEANT-ET	TV TL	99-NA	147HO02424	FREDDIE x PLANET	57	45	2367	103	98	2.76	3.0	89	1.0	89	1.26	96	1.09	0.89	1.20	2354G
DE-SU EPC SAINNE 11315-ET	TR TP	100-NA	7HO12017	EPIC x OBSERVER	48	36	1145	104	94	2.77	5.2	85	1.5	80	1.35	92	1.19	0.93	1.12	2353G
ZIMMERVIEW MOGUL DJANGO-ET	TR TP	100-NA	7HO12189	MOGUL x DOMAIN	33	35	1121	73	94	2.82	4.3	84	1.6	77	2.06	87	2.07	1.67	0.93	2353G
DE-SU RB MONTREAL 11043-ET	TR TV	100-NA	250HO11704	ROBUST x PLANET	40	69	838	156	91	2.98	3.6	83	.9	81	1.67	87	1.05	1.13	-0.73	2352G
PRIDE MOGUL TAMPA CRI-ET	TC TV	99-I	1HO11511	MOGUL x FREDDIE	23	41	790	70	95	2.96	6.4	85	1.8	80	1.72	86	2.13	2.42	0.65	2352G
CO-OP M-P DORCY ADIDAS-ET	TC TV	100-NA	1HO10471	DORCY x BOLIVER	51	22	1638	111	97	2.64	6.3	86	.9	86	0.92	93	1.45	0.76	-1.22	2351G
B-S-D MOGUL RAWLINS-ET	TR TP	100-NA	14HO07341	MOGUL x OBSERVER	25	44	442	92	90	2.79	6.7	81	2.3	73	1.16	85	1.99	0.88	0.22	2350G
LEPACHA TRINIDAD-ET	TV TL	100-NA	200HO06560	ALTAIRNET x SUPER	55	29	1494	126	92	2.77	4.0	84	2.5	77	0.93	89	0.74	0.28	-0.75	2350G
DE-SU DORCY MOONBOY 954-ET	TR TP	100-NA	7HO11279	DORCY x SHOTTLE	32	9	637	41	98	2.71	4.2	93	2.0	92	1.81	96	2.62	2.60	1.90	2349G
S-S-I SNOWMAN POLICE-ET	TR TP	100-NA	7HO11647	SNOWMAN x PLANET	70	66	2169	167	94	2.91	3.5	85	-1.0	80	0.98	90	0.09	1.30	0.64	2349G
MR WELCOME MOGUL LENTAL	TC TV	100-NA	29HO16960	MOGUL x OBSERVER	32	75	613	143	91	2.80	4.4	82	1.0	74	1.51	85	1.20	1.13	-0.15	2348G
LADYS-MANOR SHAKESPEARE-ET	TR TP	100-NA	14HO07223	EPIC x SHOTTLE	22	58	235	89	98	2.57	5.9	87	.6	88	1.68	97	1.96	1.42	1.64	2347G
AMMON FARMS MOONSTRUCK-ET	TR TP	100-NA	7HO11784	ROBUST x MILLION	33	51	381	120	93	2.92	4.0	84	1.2	79	1.87	92	2.08	1.70	0.11	2346G
DE-SU 11277 ABACUS-ET	TV TL	100-NA	29HO16755	SUDAN x SUPER	53	58	1398	140	90	2.90	4.0	81	1.4	73	1.49	85	0.56	0.56	0.67	2346G
MORNINGVIEW BOOKEM LUCID-ET	TR TP	99-I	7HO11830	BOOKEM x SHOTTLE	46	30	1367	85	97	2.62	4.2	86	1.0	85	1.89	94	1.00	1.16	1.28	2345G
CO-OP IOTA TUSCOBIA	TC TV	99-I	1HO10915	ALTAIOTA x PLANET	46	47	1341	107	99	2.96	3.8	88	1.6	92	1.57	92	1.56	0.74	1.21	2344G
EVEN-PAR ZUMA	TV TL	100-NA	29HO16607	ROBUST x PLANET	58	64	1344	188	94	3.15	5.4	85	.3	81	0.57	89	0.37	0.68	-1.65	2344G
TWIN-SPRUCE ARMTAGE CHET-ET	TC TV	100-NA	29HO16757	ARMITAGE x PLANET	47	43	1365	131	94	2.76	4.8	84	4.0	80	0.39	90	0.08	-0.41	-0.97	2343G
ALTA ECHELON-ET	TC TV	100-NA	11HO11293	ROBUST x GOLDWYN	38	49	1120	107	95	2.81	2.8	84	1.2	81	1.67	91	1.65	1.18	0.38	2342G
CO-OP BOOKEM YOWZA-ET	TC TV	99-I	1HO10598	BOOKEM x BOLIVER	38	45	809	106	96	2.59	5.4	85	.7	84	0.99	94	1.48	1.19	0.75	2342G
CROTEAU LESPERRON UNIX-ET	TV TL	100-NA	200HO03913	NUMERO UNO x DOMAIN	29	50	941	89	95	2.83	2.7	83	.1	77	2.93	88	2.92	1.17	0.72	2342G
BOMAZ CAMERO-ET	TV TL	99-NA	29HO16835	DENIM x ALTACHAIRMAN	34	60	380	131	92	2.57	5.3	84	1.9	78	0.46	89	0.77	0.34	0.25	2341G
DE-SU 521 BOOKEM-ET	TR TP	99-I	7HO10721	PLANET x RAMOS	48	30	1269	105	99	2.84	4.9	99	1.2	99	1.50	99	1.10	1.08	0.25	2341G
DE-SU ALTATERRA-ET	BY TC	100-NA	11HO11224	PAUL x PLANET	39	56	1113	141	99	2.99	5.9	89	2.9	91	0.93	95	0.69	-0.11	-1.54	2340G
BUTZ-HILL MCLEAN 1678-ET	TV TL	100-NA	7HO12136	MOGUL x MAN-O-MAN	28	68	200	128	93	2.93	1.8	85	.7	79	2.32	89	2.28	1.13	0.60	2339G
S-S-I KRAMER MONEYMAKER-ET	TR TV	100-NA	7HO11643	KRAMER x SHOTTLE	19	57	-408	107	95	2.83	6.5	86	4.1	82	1.01	86	1.19	-0.07	0.83	2339G
MISTY SPRINGS SUPERSONIC-ET	TR TY	100-NA	200HO02698	SUPER x SHOTTLE	39	65	1077	134	99	2.97	3.5	96	2.6	96	1.33	97	0.88	-0.36	0.01	2338G
CO-OP RB ROBUST YONEX-ET	TV TL	100-NA	1HO10802	ROBUST x BOLIVER	41	24	928	112	93	2.61	8.2	85	3.5	80	-0.10	90	0.58	-0.45	-1.40	2337G
DE-SU 11293 BAVARIA-ET	TC TV	99-I	29HO16749	BOOKEM x DOMAIN	43	47	1534	106	93	2.95	4.7	84	1.6	79	1.50	89	0.87	0.95	0.36	2335G
RC-NC-BTA PARISH	TC TV	100-NA	29HO16385	TWIST x PLANET	55	75	1472	168	93	2.81	4.7	85	1.2	80	0.44	89	-0.57	0.45	0.21	2335G
REGEL ALTARENEGADE-ET	TC TV	100-NA	11HO11268	ROBUST x ALEXANDER	37	95	1206	177	98	2.85	4.1	88	1.6	89	-0.11	92	-0.14	0.59	-1.30	2335G
APINA FREDERICK-ET	TV TL	99-NA	200HO07492	FREDDIE x PLANET	27	52	1253	83	92	2.85	5.1	83	3.8	74	0.79	88	1.02	0.84	0.44	2334G
SEAGULL-BAY SHAW-ET	TV TL	99-NA	7HO11418	FREDDIE x PLANET	66	53	2687	108	98	3.01	2.0	92	-.4	92	1.75	95	0.87	1.55	2.45	2334G
SILVERRIDGE ALBUM-ET	TR TV	100-NA	200HO02942	EPIC x MAN-O-MAN	37	28	813	78	92	2.63	5.0	82	1.8	72	1.56	87	1.49	1.04	1.22	2334G
MR T-C-G PROSPECT-ET	TR TV	100-NA	200HO02962	FERNAND x PLANET	59	62	1372	178	90	2.95	2.2	80	.5	71	1.60	85	1.29	-0.38	-0.96	2333G
BLUE-HORIZON ALTAGEDDY-ET	TC TV	99-NA	11HO11205	FREDDIE x PLANET	21	43	1228	50	98	2.66	5.5	86	4.2	88	1.01	92	0.99	1.13	1.25	2332G
DEN-K ALTAGREATEST	TV TL	100-NA	11HO10928	PLANET x BOLTON	62	52	2091	161	99	3.10	6.1	96	-.3	95	1.10	97	1.05	-0.06	-1.44	2332G
MORNINGVIEW LIFTOFF-ET	TC TV	100-NA	29HO16679	ARMITAGE x SHOTTLE	42	47	1014	111	96	2.55	3.7	86	1.9	85	1.03	92	0.72	0.07	0.77	2332G
SANDY-VALLEY ALTASILVER-ET	TC TV	100-NA	11HO11192	ALTAIOTA x PLANET	57	82	1757	163	99	3.08	1.5	91	.6	93	1.14	96	0.30	0.64	1.03	2332G

This is NOT the Official Holstein Association Top 100 TPI Bulls List. The official list has the same reliability criteria, but in addition has Semen Status ACTIVE or LIMITED only.