

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
14HO05982	K&C-VIEW MAC ROSWELL	840003004222414						
7HO08572	K&C-VIEW RODEO ROOSEVELT-ET	USA 135426672						1
200HO02262	K&C-VIEW ROMANO-ET	USA 137734577						1
14HO05009	K&C-VIEW ROZ SO ROMULUS-ET	USA 135755736						1
1HO08627	K&C-VIEW SOSA RANGE CRI-ET	USA 61376439						
1HO08626	K&C-VIEW SOSA RANGER CRI-ET	USA 61376438						
200HO07847	K&L CLASSIC-ET	NLD 925330884						
200HO07882	K&L HEATER-ET	NLD 767719678						
	K&L ML ALTACASEY-ET	NLD 892829615		C				
	K&L PL VICO	ESP 9203398755						
14HO04958	K-BEN-SEBAGO BLACKJAK-ET	USA 61491091						1
	K-FOUR-A EMERALD GATLIN-ET	USA 71316758	C					
100HO10980	K-GILTEX ADVE DILLON-RED-ET	USA 138736983						
	K-GOLD PRENTICE OZONE	USA 64010254				C		
7HO11047	K-GOLD S OCEAN-ET	USA 53453754						
	K-GOLD SSI SUPER OBVIOUS-ET	840003004672660						
1HO09428	K-HURST BUCKEYE SAMPSON	USA 62950837						
	K-HURST GALAXY PAIN-ET	USA 73245301						
	K-HURST GALAXY PERFORM-ET	USA 73245283						
	K-HURST GALAXY PROPEL-ET	USA 73245327						
	K-HURST GALAXY PROVIDE-ET	USA 73245231						
	K-HURST GOLDWYN SETH-ET	USA 64569912						
1HO02649	K-HURST GOLDWYN SPUD-ET	USA 64569911						
	K-HURST JET STRM SALUTE-ET	USA 64569944						
1HO04151	K-KINGS-VIEW TYLER-ET	USA 2135236						
	K-LANE GOLDSUN SUNBLOCK-ET	840003012985789						
	K-LANE GOLDSUN SUNBURN-ET	840003012985788						
	K-LANE GOLDSUN SUNPROOF-ET	840003012985790						
	K-LANE LAUTHORITY SUNSET-ET	USA 73588295						1
	K-LANE LAUTHORITY SUNDOWN-ET	USA 73588294						1
	K-LANE ROCKET ASHTON-RED	840003012985791						
	K-LU-KEY ANDRSN BO-ET	USA 72208438						
	K-LU-KEY ANDRSN GAVIN-ET	USA 72208440						
	K-LU-KEY ANDRSN MCLOVIN-ET	USA 72208439						
	K-LU-KEY ANDRSN ROCKY-ET	USA 72208442						
	K-LU-KEY CHAMP RYDER-ET	USA 74437171						1
	K-LU-KEY FIX JAX-ET	USA 74437170			C			
	K-LU-KEY FIX SEAN-ET	USA 74437169			C			1
	K-LU-KEY HOMERUN HAPPY	USA 74437166						
	K-LU-KEY KINGBOY CHASE	USA 74437168						
	K-LU-KEY OUTLINE OLAF-ET	USA 72726877						
	K-LU-KEY OUTLINE THOR-ET	USA 72726878						
	K-LU-KEY PREDESTINE CHET-ET	USA 72726873						3
	K-LU-KEY PREDESTINE DREW-ET	USA 72726872						
	K-LU-KEY PREDESTINE KASH	USA 72726863						3

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	K-LU-KEY PREDESTINE PAT-ET	USA 72726864						3
	K-LU-KEY SHINE SAMMIE-ET	USA 72726866						
	K-LU-KEY SHINE SAMSON-ET	USA 72726867						
	K-LU-KEY SHINE SANTO-ET	USA 72726869						
	K-LU-KEY SHMR CHIP-ET	USA 72208445						
	K-LU-KEY SHMR HOWARD-ET	USA 72208446						
	K-LU-KEY SHMRK KINDLE-ET	USA 72208444						
21HO01977	K-M-D MARK CAESAR-ET	USA 2094301						
	K-MANOR A SATELITE-ET	USA 72160728						
	K-MANOR ALEX MAJESTIC-ET	USA 68654129					C	3
	K-MANOR ALEX MYSTIC-ET	USA 68654131					C	
	K-MANOR B MAJESTIC 281-ET	USA 72160694						
	K-MANOR B MISTOOK-ET	USA 68654168						
182HO00816	K-MANOR BOWSER MCKINLEY-ET	USA 68654141					C	
14HO06669	K-MANOR BOWSER MICKEY-ET	USA 68654142					C	
	K-MANOR BOWSER MONROE-ET	USA 68654140						
14HO07141	K-MANOR BWSR MERCURY-ET	USA 70957147						
	K-MANOR C RACKETEER-RED-ET	USA 70957182						
	K-MANOR COLT RADICAL-RED-ET	USA 70957181						
	K-MANOR COLT RAPTOR-RED-ET	USA 70957177						
	K-MANOR CR MAGICAL 437-ET	840003129373658						
	K-MANOR CR MAGICAL 438-ET	840003129373659						
	K-MANOR DEBACLE 261-ET	USA 72160674						
	K-MANOR DECEIT 262-ET	USA 72160675						
	K-MANOR DECEIVE 263-ET	USA 72160676						
	K-MANOR DORCY SILENCE-ET	USA 68654163						
	K-MANOR DOTSON MALCOLM-ET	USA 68654137						
	K-MANOR E RAELYN 349 PO-ET	USA 72160762						
	K-MANOR EMERALD SANTA	USA 71744413	C					
	K-MANOR EPIC REACT-ET	USA 70957193						
	K-MANOR EPIC RHETORIC P-ET	USA 70957195						
	K-MANOR EPIC RIOT-ET	USA 70957196						
14HO07263	K-MANOR EPIC SAVE-ET	USA 70957183						
	K-MANOR EPIC SAVOR-ET	USA 70957185						
	K-MANOR EPIC SAVVY-ET	USA 70957190						
	K-MANOR EPIC SCEPTER-ET	USA 70957194						
	K-MANOR EPIC SCHEME-ET	USA 70957197						
	K-MANOR EPIC SEDITION-ET	USA 70957198						
	K-MANOR EPIC SENSATIZE-ET	USA 70957200						
	K-MANOR EPIC SENTINEL-ET	USA 70957201						
	K-MANOR EPIPHANY	USA 70957215						
	K-MANOR G MAC-ET	USA 68654156						
	K-MANOR G SOLITUDE-ET	USA 68654159						
	K-MANOR G SOLO-ET	USA 68654160						
	K-MANOR GC MAGNA-ET	USA 70957151						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	K-MANOR GC MINT-ET	USA 70957152						
	K-MANOR GC MOBSTER-ET	USA 70957158						
	K-MANOR GO THE DISTANCE-ET	840003129373655						
	K-MANOR H SAGACIOUS 354-ET	USA 72160767						
	K-MANOR IOTA MOTION-ET	USA 70957138						
	K-MANOR IOTA MOTIVE-ET	USA 70957141						
	K-MANOR J RAPTURE 343 PO-ET	USA 72160756						
	K-MANOR JABIR SECRECY 347	USA 72160760						
	K-MANOR JETHRO 314	USA 72160727					C	
	K-MANOR L LATIC 323-ET	USA 72160736						1
	K-MANOR L MAGISTRATE 283-ET	USA 72160696						
	K-MANOR L RAID 319-ET	USA 72160732						1
	K-MANOR L RECALL-RED-ET	USA 70957187						
	K-MANOR L RECKLESS-RED-ET	USA 70957189		C				3
	K-MANOR L RELIANT-RED-ET	USA 70957178						
	K-MANOR L SPECIFY 352-ET	USA 72160765						
	K-MANOR LARSON SITCOM-ET	USA 70957153						
	K-MANOR LIGHT MAGIC-ET	USA 139965694						
	K-MANOR M RUBICON	USA 70957157						1
	K-MANOR M SHOGUN-ET	USA 70957161						
	K-MANOR M SHOTGUN-ET	USA 70957162						
	K-MANOR M SOMETHING-ET	USA 70957167					C	
	K-MANOR MAN SHARDEL 350	USA 72160763						
182HO00815	K-MANOR MAN-O-MAN MADDOX-ET	USA 68654135					C	
	K-MANOR MAN-O-MAN MAGNUM-ET	USA 68654132						
	K-MANOR MAN-O-MAN MAGNUS-ET	USA 68654133						
	K-MANOR MARBLE 296-ET	USA 72160709						
	K-MANOR MASTERFUL 299-ET	USA 72160712						
14HO07513	K-MANOR MAVERICK 297-ET	USA 72160710						
	K-MANOR MEANDER 280-ET	USA 72160693						
14HO07569	K-MANOR MEGAFORTUNE 331-ET	USA 72160744						
	K-MANOR MIGRAINE 334 PO-ET	USA 72160747						
	K-MANOR MINISTER 298-ET	USA 72160711						
	K-MANOR MOLLIFY 304-ET	USA 72160717						
	K-MANOR MONSIEUR 313-ET	USA 72160726						
	K-MANOR MONTEREY BLAZEN	USA 74251422						
	K-MANOR MONTROSS 417-ET	840003129373638						
	K-MANOR MONTROSS 421-ET	840003129373642						
	K-MANOR MORAL 306-ETS	USA 72160719						
	K-MANOR MORALE 307-ETS	USA 72160720						
200HO02679	K-MANOR MORGAN-ET	USA 68654130					C	
	K-MANOR O MEGA-ET	USA 68654144						
	K-MANOR O RADIUM 325 PO-ET	USA 72160738			C			
	K-MANOR PLANET MARS-ET	USA 68654126						
	K-MANOR PLANET MAXIM-ET	USA 68654125					C	

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	K-MANOR R LASER 378 PO-ET	USA 72160791						
	K-MANOR RACER 364 PO RC-ET	USA 72160777						
	K-MANOR RACER SALVADOR	840003123732746						
	K-MANOR RANSOM-RED	USA 72090390		C				3
	K-MANOR RAPTURE 351 RC-ET	USA 72160764						
	K-MANOR RAPTURE RACER PO-ET	USA 72160761						
	K-MANOR RHYTHM 292-ET	USA 72160705						
	K-MANOR RINGMASTER-ET	USA 72160706						
	K-MANOR RITA REFLECT P-ET	USA 72160703						
	K-MANOR RITA REIGN P-ET	USA 72160704						
	K-MANOR RITA SILVER 440-TW	840003129373661						
	K-MANOR RITA SILVER 441-TW	840003129373662						
	K-MANOR RUNDOWN 309 PO-ET	USA 72160722						
	K-MANOR S MYSTICAL-ET	USA 70957136						
	K-MANOR S SUBSEQUENT-ET	USA 70957221						
	K-MANOR SAGACIOUS 367-ET	USA 72160780						
	K-MANOR SARAH 1326-ET	USA 72128115						
100HO11595	K-MANOR SARAH 1327-ET	USA 72128116						
	K-MANOR SARAH 1328-ET	USA 72128117						
	K-MANOR SARAH 1443-RED-ET	USA 72128232						1
	K-MANOR SARAH ERNHARDT 1478	USA 72128267						
	K-MANOR SARAH T 1444-ET	USA 72128233						
	K-MANOR SAVE FINCH	840003123732736						
	K-MANOR SHAMROCK SONATRA-ET	USA 70957143						
	K-MANOR SHERAC SCRUTINY-ET	USA 70957218						
	K-MANOR SHERAC SERIES-ET	USA 70957216						
	K-MANOR SHERAC SPECIALTY-ET	USA 70957217						
200HO02682	K-MANOR SIMPLISTIC-ET	USA 68654128						1
	K-MANOR SNOW-ET	USA 72160665						
	K-MANOR SNOWBALL-ET	USA 70957222						
	K-MANOR SNOWSTORM-ET	USA 72160664			C			
	K-MANOR SNOWY-ET	USA 72160663						
	K-MANOR SS MODEL 328-ET	USA 72160741						
	K-MANOR SS MONITOR-ET	USA 72160733						
	K-MANOR SS MORALITY 322-ET	USA 72160735						
200HO10061	K-MANOR STRAUSS-ET	USA 72160677						
	K-MANOR SUPER MARIO-ET	USA 68654150						
14HO06726	K-MANOR SUPER MIAMI-ET	USA 68654153						
	K-MANOR SUPERIOR 433-ET	840003129373654						
	K-MANOR SUPERIOR 436-ET	840003129373657						
	K-MANOR TRANSFORMER 1381-ET	USA 72128170						
	K-MANOR TRANSFORMER 8210-ET	USA 72436757						
	K-MANOR W SLING SHOT-ET	USA 70957148						1
	K-MANOR W SYSTEMATIC-ET	USA 70957146						
	K-MANOR WHAT A SHAM-ET	USA 70957130						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	K-MANOR WINDBRK SUMMARY-ET	USA 70957142						1
	K-MANOR WINDBROK SPECIAL-ET	USA 70957133						
	K-MANOR WINDBROOK SYSTEM-ET	USA 70957145						
	K-MANOR Y BRONTE 435-ET	840003129373656						
	K-NISSEN GOLDROY BOY	USA 72717649						
	K-NISSEN K CPT JACK SPARROW	USA 69968486						
	K-NISSEN SHOTTLE MAXIMUS	USA 72323364					C	
	K-STAR ALLSTAR-ET	840003128575321						
	K-STAR ALPINE	USA 70019870			C		C	
	K-STAR ANGER	USA 70019873						
	K-STAR ANIMATED	USA 70019874					C	
	K-STAR AVATAR	USA 69304337						
	K-STAR FIRESTONE	USA 69304344						
	K-STAR G LAKERS-ET	USA 70019894						
	K-STAR HUEY-ET	USA 73390029						
	K-STAR HUGH-ET	USA 72754308						
	K-STAR LA-KING-ET	USA 70019879						
	K-STAR LAKEFRONT-ET	USA 70019902						
	K-STAR LAKESHORE-ET	USA 70019898						
14HO06972	K-STAR LAKESIDE-ET	USA 70019897						
	K-STAR LAKESTAR-ET	USA 70019935						
	K-STAR LAKOSA-ET	USA 70848822						
	K-STAR LAKOSS-ET	USA 70848829						
	K-STAR LANDON-ET	USA 70848862						
	K-STAR LAROSS-ET	USA 70019869			C			
	K-STAR LASTCALL	USA 70019907						
	K-STAR LATONIC	USA 71528604						
	K-STAR LATRELL-ET	USA 72754235						
	K-STAR LATREY	USA 72150363						
14HO06627	K-STAR LATROY-ET	USA 69304279						
	K-STAR LAY-OUT-ET	USA 70848833						
	K-STAR LAYUP-ET	USA 70848820						
	K-STAR LIGHT-IT	USA 70019916						
29HO16327	K-STAR LIGHTS-OUT-ET	USA 70019863						
	K-STAR MACK 746-ET	USA 73390072						
	K-STAR MACK HAMMER-DOWN-ET	USA 73390060						
	K-STAR MANO LA-CLIPPER-ET	USA 70848866						
	K-STAR MO HAWK-ET	USA 71528663						
	K-STAR PREDESTINE 742	USA 73390068						3
14HO07321	K-STAR SR HULK	USA 72150287						
	K-STAR SUPER SUMMIT-ET	USA 69304343						
	K-STAR SUPER SUPREME-ET	USA 69304317						
	K-STAR SUPER TROOPER	USA 69304313						
	K-STAR SUPERSIRE 758	USA 73390084						
11HO09403	K-TAL ALTAOASIS-ET	USA 61829765			C			

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
11HO09709	K-TAL ALTATURBO-ET	USA 62149579						1
	K-TAL ATWOOD JAKE	USA 69974342						
	K-TAL BIG TIME BJ-ET	USA 69974269						
	K-TAL BIG TIME CAPTAIN-ET	USA 69974265						
	K-TAL BIG TIME HARRY-ET	USA 69974261						
7HO08807	K-TAL CAMERON-ET	USA 62149584						
	K-TAL COLT P ARTHUR-RED-ET	USA 70758402						
	K-TAL COLT P KOLTON-RED-ET	USA 70758393						
	K-TAL COLT P LANCE-RED-ET	USA 70758395						
	K-TAL COLT P SHAWN-RED-ET	USA 70758396						
	K-TAL DORCEY MOGUL BJ-ET	USA 71687390						
7HO08502	K-TAL FINLEY MARCUS-ET	USA 61615868	C					
29HO13152	K-TAL JERRY-ET	USA 62149606						
	K-TAL MAC BJ-ET	USA 64865568						
	K-TAL MAC BUCK-ET	USA 64865567						
29HO14243	K-TAL MAC DAVIS-ET	USA 64865571						
	K-TAL MAYFIELD 3787-ET	USA 71687380			C			
	K-TAL MAYFIELD 3793-ET	USA 71687386			C			
	K-TAL MAYFIELD 3796-ET	USA 71687389			C			
	K-TAL MICHAEL JOEL-ET	USA 69974264						
	K-TAL MICHAEL JUNE BUG	USA 69280421						
	K-TAL MICHAEL TANNER-ET	USA 69974268						
	K-TAL MOSCOW JT-ET	USA 66662106						
	K-TAL MOSCOW WIZ KOLTON-ET	USA 66662108						
	K-TAL NORSKI JOE-ET	USA 65776516	C					
29HO10983	K-TAL ORION BJ-ET	USA 60461244						
	K-TAL PLATO JIMMY-JOE	USA 70758391						
7HO10063	K-TAL PONTIAC JT	USA 64865544			C			
	K-TAL RUSSELL BIG JOHN-ET	USA 69974263			C			
	K-TAL SHOT DAVID	USA 69280389						
	K-TAL SOCRATES KOLTON-ET	USA 66154137						
	K-TAL SUSPECT BJ-ET	USA 72576305						
	K-TAL SUSPECT DAVE-ET	USA 72576307						
	K-TAL SUSPECT KOLTON-ET	USA 72576310						
1HO09121	K-TAL ZADE TITAN-ET	USA 62498727						
	K-WAY JEEVES ALSKIE	USA 66331590						
1HO04525	K-WILL BELLMAN DURAN-ET	USA 2196677						
1HO00626	K-YO WHITE GOLD-ET	USA 2038580						
	K-Z MOGUL MORTAR	USA 72696348						
	K4A UNO GIANT	USA 70749855						
76HO16001	KAARMONA ATLEY	AUS H01695938						
29HO15384	KAARMONA DON LOTTO-ET	AUS H01332217						
11HO05247	KACZMAREK LORD-ET	USA 18009835						
1HO05396	KACZMAREK MO LEXINGTON	USA 18009840						
	KADY ALBION	USA 129207300						1

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KADY CASUAL 1648-ET	USA 71685979						
1HO02339	KADY HERO BUTCH-ET	USA 124502763			C			
	KADY JETSTREAM 1086-ET	USA 63741305		C				
	KADY OFFICER 1261	USA 65898841						
	KADY SUPER DEAN 1649	USA 71685980						
29HO13599	KAIMURAT	ITA 4990278557						1
200HO10600	KAKOUNA COATICOOK-ET	CAN 108767111						
	KAL-SIDE ADONIS DONALD	USA 142899337					C	1
	KAL-SIDE AGRESSIVE ALEX-ET	USA 140683198						
	KAL-SIDE ARMSTEAD ALFRED-ET	USA 139968745						
	KAL-SIDE ARMSTEAD ARMEN-ET	USA 139968727						
	KAL-SIDE BRONO BENJE-TW	USA 142791255		C				
	KAL-SIDE JOCKEY-ET	USA 139594522				C		
	KAL-SIDE MILLION MAKER	USA 140326866	C	C				
	KAL-SIDE SANDY SOLOMON	USA 139956698						
	KAL-SIDE STEAMER-ET	USA 139594492						
29HO14569	KAL-SIDE STOLLEN-ET	USA 139594513				C		
	KAL-SIDE SUPER RANDALL	USA 140950762						
	KAL-SIDE SUPERBOWL	USA 140879476						
	KAL-SIDE UNO ROBERT	USA 142426311						
	KAL-SIDE WINDBROOK BROOKS	USA 142899328	C					
	KALEIDOSCOPE ARMANI-ET	USA 126261585		C				
29HO09880	KALEIDOSCOPE FRED GARNET-ET	USA 121199937						
7HO06033	KALEIDOSCOPE MO EMERALD-ET	USA 17377384						
14HO02754	KALMEYS ELTON LODI-ET	USA 2273258						
29HO13734	KAMERLAND ANNAPOLIS-ET	USA 137877371						
7HO09643	KAMERLAND TS WOODY-ET	840003001264524						
	KAMPS-HOLLOW ACOTAS	840003130461219						
	KAMPS-HOLLOW AMAZON-RED	840003013109513						
151HO05685	KAMPS-HOLLOW AMMO-RED-ET	USA 133898208						
	KAMPS-HOLLOW AMPED-RED-ET	USA 142031410						1
	KAMPS-HOLLOW ANNUITY	USA 142108796						1
	KAMPS-HOLLOW ANTEATER-ET	840003013109471					C	
	KAMPS-HOLLOW ANTIDOTE-ET	USA 142149348					C	
	KAMPS-HOLLOW ARION	USA 142233045					C	
94HO00863	KAMPS-HOLLOW ARUDOLF-RED-ET	USA 135905690						1
	KAMPS-HOLLOW BULLDOG-RED-ET	USA 73931443						
7HO06960	KAMPS-HOLLOW CONVCD RSVP-ET	USA 129766641						
14HO06506	KAMPS-HOLLOW HALLELUJAH-ET	USA 140307041		C				
14HO05260	KAMPS-HOLLOW HOLLYWOOD-ET	USA 136525785						
29HO13868	KAMPS-HOLLOW HORSEFLY	USA 138123363						
11HO09387	KAMPS-HOLLOW REGENT-ET	USA 135287752						
29HO13334	KAMPS-HOLLOW SS ARIES-ET	USA 137070448						1
	KAMPS-HOLLOW TROUBLE-RED-ET	840003130461221						
	KAN-TWO BALBOA-ET	USA 2120246						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
21HO01657	KAN-TWO CINEMA-ET	USA 2059625						
11HO06274	KANTWIJK MANFORD	NLD 234443376						
7HO00129	KANZA MATT TONY	USA 1540819						
	KAR-JE G W ATWOOD LESTER-ET	USA 142429761						
	KAR-JE MAC RYLEE-TW	USA 139789201						
	KAR-JE SUPERSIRE BOSS-ET	USA 142610884						
	KARA-KESH-RK STUD-RED	840003132621693						
	KARNVILLA ALTO	CAN 5875194						
	KARNVILLA ANCHOR-ET	CAN 6315919						
	KARNVILLA ANNUITY-ET	CAN 6797737						
	KARNVILLA ANTHEM	CAN 6364250						
200HO01530	KARNVILLA DETAIL	CAN 9106826						
73HO01730	KARNVILLA PORTER	CAN 5062493						
80HO01072	KARNVILLA RADIANT	CAN 7659237						
73HO02335	KARNVILLA RAINMAN	CAN 5875170						
73HO01961	KARNVILLA RATIO	CAN 5406271						
	KARNVILLA RAZZLE	CAN 5437741						
73HO02014	KARNVILLA REDHOT-RED-TW	CAN 5333779						
	KARNVILLA REEZO-ET	CAN 5841679						
	KARNVILLA RENOWN-ET	CAN 9106759						
200HO02061	KARNVILLA RIPPLY	CAN 7659250						
	KARNVILLA RITZ	CAN 5414275						
73HO02085	KARNVILLA ROEBUCK-RED-ET	CAN 5471881						
80HO01049	KARNVILLA ROXSON-ET	CAN 9106849						
	KARONA ACTUEL-ET	CAN 6729719			C			
11HO09864	KARONA ALTADELORO	CAN 103859767						
200HO05139	KARONA BONAIR-ET	CAN 9324236						
200HO05087	KARONA BONANZA	CAN 9324239						
73HO02403	KARONA BOOMRANG-ET	CAN 5903653						
	KARONA BOSLEY-ET	CAN 101731035						
	KARONA CARTOON-ET	CAN 5903654						
39HO00552	KARONA DIFFERENT-ET	CAN 5788576						
11HO07715	KARONA EBIZ	CAN 9324217						
39HO00593	KARONA EQUINOX	CAN 5957236						
	KARONA INTACT-ET	CAN 6824703						
73HO02345	KARONA MAXXUM-ET	CAN 5877798						
	KARONA MEGATON	CAN 402670						
200HO05138	KARONA PEDRO	CAN 9324234						
	KARONA PHILLIP-ET	CAN 10763918						
39HO00699	KARONA POLICY	CAN 6338024						
70HO01141	KARONA PRETZEL-ET	CAN 6474277						
28HO00545	KARONA PROTOCOL-ET	CAN 5903673						
200HO05344	KARONA RAINBOW-ET	CAN 102528104						
200HO04790	KARONA RELAX-ET	CAN 9324203						
200HO05506	KARONA ROLLINGSTONE-ET	CAN 103294329						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
11HO04946	KARONA SAHIB	CAN 6474276						
200HO06020	KARONA SANDALWOOD-ET	CAN 105357847						
28HO00635	KARONA SLOGAN	CAN 6338006			C			
	KARONA SPACE-ET	CAN 5864900						
28HO00634	KARONA TECHNO-ET	CAN 6316352						
72HO01704	KARONA TIMING-ET	CAN 6541105						
	KARONA TOUCH TONE-ET	CAN 5788572						
	KARONA TRACKER-ET	CAN 6394678						
	KARONA WEB-ET	CAN 6884941						
	KARONA WOODSTOCK-ET	CAN 6535024						
	KAS-BRO BOLIVER KINGSIZE-ET	USA 62022270						
	KAS-BRO BOLIVER KINGWOOD-ET	USA 62022267						
	KAS-BRO BOLIVER KINSTAR-ET	USA 62022269						
29HO10923	KAS-BRO KEYSTONE-ET	USA 132067470						
	KAS-BRO KINSMAN-ET	USA 62022237						
198HO02049	KASAI-ET	DEU 358444341						
21HO00745	KASHOME BELL JURIST-TWIN	USA 1875356						
	KAT-LIN GERARD NACHO-ET	USA 70225662						
	KAT-LIN GERARD NASCAR-ET	USA 70225659						
	KAT-LIN GERARD NEPTUNE-ET	USA 70225664						
	KAT-LIN GERARD NICK-ET	USA 70225668						
	KAT-LIN LEVI NACHO-ET	USA 71486644			C			
	KAT-LIN LEVI NEPTUNE-ET	USA 71486641						
	KAT-LIN LEVI NICKY-ET	USA 71486640			C			
	KAT-LIN LITHIUM NECTAR-ET	USA 72887180						
	KAT-LIN LITHIUM NIFTY-ET	USA 72887181						
200HO07861	KAX DECLARE-ET	DEU 121297060						
29HO13904	KAY-BEN DAWG	USA 63582601				C		
	KAY-BEN DAYTON-ET	USA 65342608						
	KAY-BEN DEERING-ET	USA 65342621			C			
29HO13159	KAY-BEN DELHI-ET	USA 61491119						
	KAY-BEN DELORME-ET	USA 65342622						
14HO05628	KAY-BEN DEMAS	USA 62476889	C					
	KAY-BEN DICTION-ET	USA 65342592						
	KAY-BEN DRIVE-ET	USA 65342607						
1HO07737	KAY-BEN GARTER SABA-ET	USA 60992800	C					
14HO04346	KAY-BEN GARTER SAGE-ET	USA 60992801						
29HO10838	KAY-BEN HERSHEL SIMEON	USA 131356131	C					
29HO13523	KAY-BEN LAWYER-ET	USA 62476886	C					
7HO09316	KAY-BEN LEIGHTON-ET	USA 62476868	C					
	KAY-BEN LINCOLN	USA 70966102						
200HO05744	KAY-BEN LORIMER	USA 62476893						
	KAY-BEN SEAMUS	USA 69552671						
14HO05773	KAY-BEN SHY-ET	USA 63582586			C			
7HO09735	KAY-BEN SPOT-ET	USA 63582596			C			

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KAY-DEES BEACON PIERSON	USA 70180793						
	KAY-DEES BOLIVER PILSNER-ET	USA 64224111						
14HO06196	KAY-DEES BOLIVER PISTOL-ET	USA 64224107						
	KAY-DEES BRONCO PILOT	USA 69331677						
29HO16431	KAY-DEES GARRET PIXEL-ET	USA 70180745						
	KAY-DEES GARRETT PIXAR-ET	USA 70180744						
	KAY-DEES MIXER PENNANT	USA 71913670						
	KAY-DEES PAYTON	USA 72680559						
	KAY-DEES ROSS PITSTOP-ET	USA 70180776						
11HO06304	KAZ-GEN SA SEAN-ET	USA 123832076						
	KB-RANCH CHRISTO MITCHEL	USA 73655042						
	KB-VIEW SUPERSIRE CHAD-ET	USA 142915381						
	KB-VIEW SUPERSIRE TOM-ET	USA 142915354						
	KB-VIEW SUPERSIRE WACO-ET	USA 142915402						
224HO05913	KC ROSES CHATTER T-RED	NLD 265988233						
	KCCK BIGSTAR ACE-RED-ET	840003132621218						
	KCCK BIGSTAR APPLE-RED-ET	840003132621221						
151HO05837	KCCK BIGSTAR-RED-ET	USA 71692203			C			
	KCCK BOBBIN 4 APPLES-RED-ET	USA 71692204						
	KCCK BOUT THE BASE-RED-ET	USA 71692287				C		
200HO10186	KCCK BRAEBURN-RED-ET	USA 71692205			C			
	KCCK C45 BAZOOKA-RED-ET	USA 71692211						
	KCCK DELTA BRAVO-ET	USA 71692282						
	KCCK DRESER ABOVE AVERAGE-ET	USA 71692139						
29HO18264	KCCK MARDI GRAS AXE	USA 71692174						
	KCCK PAT ADIDAS-RED-ET	840003132621219						
	KCCK SYMP BILLIONAIRE-RED	USA 71692215			C			
	KCCK SYMP BUCKSHOT-ET	USA 71692214						
11HO05086	KCK BARDALE BLASTOFF-ET	USA 17373198						
9HO02260	KCK BARDALE SLOCUM JONAS-ET	USA 2287143						
	KD CB DZ MCCUTCHEN JASPER	USA 72925697						
44HO06718	KDK ROTATE EL TORO 85532-ET	USA 2036231			C			
	KE GLITTER DANCER GRYPHON	USA 56652901						
	KE-HOLTZ ARMCHAIR QB	USA 71001153						
	KE-HOLTZ CRWN P-RD GATR-RED	USA 71881776						
	KE-HOLTZ GALLON FLAGGER-ET	USA 69554529			C			
	KE-HOLTZ GALLON FLAGSTAF-ET	USA 71001146						
	KE-HOLTZ GOLD CHIP FINAL	USA 71001152						
	KE-HOLTZ HALOGEN PLUS	USA 71881781						
14HO05561	KE-HOLTZ MARION LESTER-ET	USA 63626998	C					
	KE-HOLTZ MICHAEL PATCH	USA 65747861						
	KE-HOLTZ MOGUL DREAMER	USA 72350214		C				
	KE-HOLTZ MONTROSS FLUID-ET	USA 71881780						
	KE-HOLTZ PLANET FLARE-ET	USA 68698053						
14HO06449	KE-HOLTZ PLANET FOREST-ET	USA 68698052			C			

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KE-HOLTZ PRO-TIME-ET	USA 69406007						
	KE-HOLTZ PRONTO FLASHER-ET	USA 65747857						
	KE-HOLTZ PRONTO FURY-ET	USA 65747856						
	KE-HOLTZ ROBUST ROMNEY	USA 71881770						
	KE-HOLTZ SHAMROCK PERSUE-ET	USA 71001148						
	KE-HOLTZ SHROCK PRESERVE-ET	USA 71001147						
	KE-HOLTZ SPEARMINT LAD	USA 68698056		C				
	KE-HOLTZ TANGO KRESS	USA 71881783	C	C				
	KE-HOLTZ TIME PREMIERE-ET	USA 68698060						
	KE-HOLTZ TIME PRINT-ET	USA 69406009						
	KE-HOLTZ TRIGGER FLINT	USA 69554520			C		C	
	KE-TRO DECEIVER SHOCK	USA 71881775						
	KE-TRO OBSERVER PACK-ET	USA 69554523						
	KE-TRO OBSERVER PILOT-ET	USA 69554525						
	KE-TRO PALERMO PILLER	USA 71001150					C	
	KE-TRO PONDER PLACID	USA 71881779						
	KE-TRO SPEARMINT PATCH	USA 68698057		C			C	
200HO09209	KED BENTON-ET	USA 134574587	C					
1HO09041	KED BOLIVER MALAK CRI-ET	USA 62398821						
200HO03201	KED JEREMIAH-ET	USA 129465607						
200HO03150	KED JOCK-TW	USA 127826226						
29HO06658	KED JUROR-ET	USA 2124357						
7HO08350	KED MERCHANT MICKEY	USA 134774688						
7HO06989	KED MTOTO JEWEL DOS-ET	USA 130161235						
1HO06833	KED MTOTO JEWEL TRES-ET	USA 130161253						
536HO00322	KED OUTSIDE JANCE-ET	USA 134438052		C				
29HO11614	KED OUTSIDE JEEVES-ET	USA 134438230						
7HO08834	KED TALENT SELECT-ET	USA 136008921						1
1HO06569	KED WINCHESTER JUMAL-ET	USA 127827889						
	KED-ONE ACTIVE CAMERON-ET	USA 139566774						
14HO06073	KED-ONE BAXTER GOLD JASPER	USA 139123786						
29HO14558	KED-ONE CALIXTO-ET	USA 139566792						
	KED-ONE DADDY SHARP-ET	USA 72657243		C				3
	KED-ONE JEEVES CHARM-ET	USA 139988392					C	
	KED-ONE LITH SIDNEY-ET	USA 72494387						
	KED-ONE LITHIUM SULLY-ET	USA 72494386						1
	KED-ONE MILLION CAPTAIN	USA 68998072						
	KED-ONE OBSERVER CELEBRITY	USA 70788224						
29HO17617	KED-ONE SAFELITE-ET	USA 72803605						1
	KED-ONE SEAN-ET	USA 72856010						1
	KED-ONE SEBASTIAN CHICO-ET	USA 70260744						
	KED-VG MATTIE G JACK-ET	USA 127019396						
200HO03302	KEDRANEY GAMES-ET	USA 131891586						
1HO11637	KEENER CO-OP SKYLINE ASHTON	840003126826313						
1HO00780	KEEPHOLM STAR NATHAN-ET	USA 2125810						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
1HO05315	KEIDEL BELLWOOD SATURN-ET	USA 17099649						
7HO07500	KEIDEL JASPER CASPER-ET	USA 132584869						
7HO07573	KEIDEL LOUIS LAMOURE-ET	USA 132746450						
14HO04203	KEIDEL MOE BANDY-ET	USA 132584926						
11HO33077	KEILAGLEN AIRNET DEANO-ET	AUS H01723426						
8HO02528	KEL-VISTA KEEPSAKE	USA 2081188						
	KEL-VISTA PDEST BENTLEY-ET	USA 142691519						3
	KEL-VISTA UNO BENTLEY-ET	USA 142183715						
	KEL-VISTA UNO BRANTLEY-ET	USA 142183751						
11HO37007	KELENMAR ICEFYRE ELTON	AUS H01445572						
	KELLERCREST ACTIVE LONDON	USA 63260529					C	
7HO09341	KELLERCREST AEROSMITH-ET	USA 62022712					C	
14HO05926	KELLERCREST AIRAID LINUS-ET	USA 63260514						
1HO09143	KELLERCREST ALBERTO-ET	USA 62022709						
	KELLERCREST ALEXANDER LLOYD	USA 66861483						1
	KELLERCREST ALRIGT CHUCK-ET	USA 72151671			C			
29HO16906	KELLERCREST ANDERSON LEXUS	USA 71164358						
14HO05057	KELLERCREST APOLLO	USA 62022696						
200HO02214	KELLERCREST ARCADE-ET	USA 62022714						
	KELLERCREST ARMITAGE LEX-ET	USA 71164324						
	KELLERCREST ARMITGE LIMO-ET	USA 71164330						
	KELLERCREST ARMITGE LORD-ET	USA 71164327						
14HO07186	KELLERCREST ARMITGE LUKA-ET	USA 71164325						
	KELLERCREST ARMITGE LUKI-ET	USA 71164318						
	KELLERCREST ARMT LINDLEY-ET	USA 71164319						
7HO10132	KELLERCREST BRET LANDSCAPE	USA 63260515					C	
1HO08631	KELLERCREST BRET LES CRI-ET	USA 61376443						
	KELLERCREST BRODIE LLOYD	USA 74117381						
97HO40529	KELLERCREST BRONCO LOREN-ET	USA 69725098			C		C	
	KELLERCREST BRONCO LUCUS-ET	USA 69725097					C	
	KELLERCREST CAMERN LOREX-ET	USA 71164354					C	
	KELLERCREST CAMERON SEDRIC	USA 71164360						
	KELLERCREST CAMRN LAMONT-ET	USA 71164356					C	
	KELLERCREST CASUAL DEXTER	USA 72151648						
	KELLERCREST CASUAL LAVON	USA 72151646					C	
1HO02698	KELLERCREST COLBY LEVEL-ET	USA 63260516		C				
	KELLERCREST COLBY LITHIUM	USA 63260517						
	KELLERCREST COMMANDR CONRAD	USA 74117359						
	KELLERCREST DADDY LONDON	USA 72151632		C				
	KELLERCREST DEAN CARLOS-ET	USA 71164366			C			
	KELLERCREST DEDCT CARLOS-ET	USA 74117372						
	KELLERCREST DEDUC CEDRIC-ET	USA 72151673						
	KELLERCREST DEDUC CORTEZ-ET	USA 72151675						
	KELLERCREST DEDUCT CEZAR-ET	USA 72151672						
	KELLERCREST DEDUCT CLYDE-ET	USA 74117364						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KELLERCREST DEFENDR BARCLAY	USA 72151670						
	KELLERCREST DESTRY LASZLO	USA 66861500						1
29HO16626	KELLERCREST DOBR LIMITED-ET	USA 71164317						
	KELLERCREST DOMAIN LAVONTE	USA 69725102					C	
	KELLERCREST DOMAIN LEVERAGE	USA 69725108						
	KELLERCREST DORCY LEXUS	USA 72151642						
	KELLERCREST DTMN LEOPOLD-ET	USA 72151643						
	KELLERCREST EARNIT FRISCO	USA 66861478						
14HO06297	KELLERCREST EARNIT HANK	USA 63260532						
	KELLERCREST ECOYNE LEMENT	USA 71164355					C	
	KELLERCREST ECYN LAVELLE-ET	USA 71164347						
	KELLERCREST EPIC LENCHO-ET	USA 71164340						
	KELLERCREST EPIC LIONEL-ET	USA 71164323						
14HO07200	KELLERCREST EPIC LORETTO	USA 71164326						
	KELLERCREST FREDE LAMONT-ET	USA 69725116					C	
	KELLERCREST GALAXY LOGAN-ET	USA 72151645						
	KELLERCREST GERARD BRONX	USA 69725101		C				
	KELLERCREST GERARD LORE	USA 69725113						
	KELLERCREST GERD LATRELL-ET	USA 69725106						
	KELLERCREST GERRD LATHAM-ET	USA 69725105						
	KELLERCREST GRAF LUCIUS-ET	USA 71164348						1
1HO11020	KELLERCREST GRAF LUDLOW-ET	USA 71164349					C	
	KELLERCREST GRAF LUDWIG-ET	USA 71164351					C	1
	KELLERCREST HALOGN DEVAN-ET	USA 74117361						
	KELLERCREST JABIR LEAGO	USA 72151667						
	KELLERCREST JACEY LEIGH-ET	USA 72151656						
	KELLERCREST JACEY LEVEE	USA 72151659						
	KELLERCREST JAMMER PHOENIX	USA 66861485						
	KELLERCREST JEEVES LATRELL	USA 63260531						
	KELLERCREST JEROD LEWIS-ET	USA 72151641						
	KELLERCREST KINGB BANNER-ET	USA 74117367						
14HO07707	KELLERCREST KINGBO LUNDY-ET	USA 74117360						
	KELLERCREST KINGBOY LOU-ET	USA 74117366						
	KELLERCREST LA-BRN LEROY-ET	USA 72151661						
	KELLERCREST LAB LONESTAR-ET	USA 72151666						
14HO05636	KELLERCREST LABARON-ET	USA 63260510						
	KELLERCREST LABR LA-VALE-ET	USA 72151660						
29HO16115	KELLERCREST LAGUNA-ET	USA 69725082					C	
14HO05423	KELLERCREST LAMBERT-ET	USA 62022710						
200HO02812	KELLERCREST LAMOND-ET	USA 69725117					C	
	KELLERCREST LANCOME BONANZA	USA 72151654			C			
200HO06534	KELLERCREST LANCOME-ET	USA 71164339						
29HO11355	KELLERCREST LANGDON-ET	USA 133806061						
	KELLERCREST LATR LATRELL-ET	USA 71164334						
	KELLERCREST LATROY LABOY-ET	USA 71164333						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KELLERCREST LATROY LAVAN-ET	USA 71164338					C	
	KELLERCREST LATROY LAVON-ET	USA 71164342					C	
	KELLERCREST LATROY LOGAN-ET	USA 71164322						
	KELLERCREST LATRY LAQUAN-ET	USA 71164332						
	KELLERCREST LATRY LAVAN-ET	USA 71164345						
	KELLERCREST LATRY LAVELL-ET	USA 71164341						
	KELLERCREST LAYNE LASZLO-ET	USA 71164320						
	KELLERCREST LAZER CRI-ET	USA 69560613						
29HO18084	KELLERCREST LEARY-ET	USA 74117363						
	KELLERCREST LEO LA-VALLE	USA 71164344						
	KELLERCREST LES BREWSTER	USA 69725112						
	KELLERCREST LES LORETTO-ET	USA 69725095						
	KELLERCREST LET IT BE-ET	USA 69725103					C	
	KELLERCREST LEVI LESTER	USA 71164346			C			
	KELLERCREST LEVI LIMITED	USA 71164353			C			
97HO41009	KELLERCREST LEVI LUNDY	USA 71164350			C			
	KELLERCREST LEVI PETROS-ET	USA 71164357						
	KELLERCREST LEWIS LORD-ET	USA 69725130						
14HO05527	KELLERCREST LEX-LUTHER	USA 62022715	C					
	KELLERCREST LEXICON	USA 69725115					C	
	KELLERCREST LIESL LOUIE-ET	USA 69725111					C	
	KELLERCREST LIESL LOUIS-ET	USA 69725110						
	KELLERCREST LIMITED-ET	USA 62022693						
1HO09408	KELLERCREST LINCOLN-ET	USA 63260509						
1HO09389	KELLERCREST LINDEN CRI-ET	USA 62769058						
	KELLERCREST LITH LINCOLN-ET	USA 72151636					C	
	KELLERCREST LITHUM LEWIS-ET	USA 72151638					C	
	KELLERCREST LOOMIS CRI-ET	USA 65801455						
	KELLERCREST LOTTOMX ODYSSEY	USA 72151678						
	KELLERCREST LTH LANCELOT-ET	USA 72151637					C	
	KELLERCREST MAINV SUMMIT-ET	USA 74117368						
14HO06613	KELLERCREST MAN-O-LANTRN-ET	USA 66861487						
	KELLERCREST MAN-O-LARRY-ET	USA 66861489						
14HO06601	KELLERCREST MAN-O-LIAM-ET	USA 66861486					C	
	KELLERCREST MAN-O-LURE-ET	USA 66861490					C	
14HO06647	KELLERCREST MANO-MAN LEO-ET	USA 66861491						
14HO06720	KELLERCREST MANOMAN LEON-ET	USA 69725087						
	KELLERCREST MANOMAN SAMURAI	USA 66861499						
	KELLERCREST MAURC SAFARI-ET	USA 72151644						
	KELLERCREST MAURCE LONZO-ET	USA 72151634						
	KELLERCREST MAURCE MOSES-ET	USA 72151635						
	KELLERCREST MELVILLE-ET	USA 72151647			C			
	KELLERCREST MILLION MONROE	USA 66861481						
	KELLERCREST MIXER LARAMIE	USA 71164329						
7HO12080	KELLERCREST MIXER LASER-ET	USA 71164337						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KELLERCREST MOGUL DELOREAN	USA 71164335						
	KELLERCREST MOGUL LAURENT	USA 71164361					C	
	KELLERCREST MOGUL LAZAR	USA 72151629						
7HO12134	KELLERCREST MOGUL LIESEL-ET	USA 71164336						
	KELLERCREST MOGUL LONDON-ET	USA 71164352						
	KELLERCREST MONTRY LOGAN-ET	USA 74117358						
1HO09299	KELLERCREST MR LEONARDO-ET	USA 63260508						
7HO09342	KELLERCREST MR LORENZO-ET	USA 62022711						
	KELLERCREST NIFTY LARYNX-ET	USA 63260521						
	KELLERCREST NIFTY LATHAN-ET	USA 63260523						
14HO06087	KELLERCREST NIFTY LEGACY	USA 63260518						
14HO06136	KELLERCREST NIFTY MANNING	USA 63260527			C			
	KELLERCREST NUMRO UNO BRUNO	USA 71164359						
14HO07067	KELLERCREST O-STYLE LENARD	USA 69725128	C					
	KELLERCREST OAK LANCELOT-ET	USA 72151655						
	KELLERCREST OAK LANGFORD	USA 72151650						
	KELLERCREST OBSERVER JAZZ	USA 69725109	C					1
	KELLERCREST OBSVR DOMINO-ET	USA 69725114						
	KELLERCREST OCTF PHOENIX-ET	USA 74117380						
	KELLERCREST OCTFT PRINCE-ET	USA 74117376						
	KELLERCREST PARKER LUKE-ET	USA 69725107						
	KELLERCREST PARTYROCK LAVA	USA 72151662						
	KELLERCREST PAYTN CORTEZ-ET	USA 72151669			C			
14HO06427	KELLERCREST PLANET BIG-BEN	USA 66861482						
29HO14939	KELLERCREST PLANET BOLT	USA 66861484						
	KELLERCREST PLNT PHOENIX-ET	USA 66861479						
	KELLERCREST PR CARNIVAL-ET	USA 71164364						
	KELLERCREST PREDJ JARVIS-ET	USA 72151652						
	KELLERCREST PREDSN LUKUS-ET	USA 72151665						
	KELLERCREST PROPER LUNDY-ET	USA 71164321						
	KELLERCREST PROPR LUTHER-ET	USA 71164328						
	KELLERCREST PUNCH LAWSON	USA 71164363						
	KELLERCREST RACER LUIGI-ET	USA 72151674					C	
	KELLERCREST RACER LUNDY-ET	USA 74117365					C	
	KELLERCREST RACR COLUMBO-ET	USA 72151677						
	KELLERCREST RAVISH PERCY-ET	USA 69725121						
	KELLERCREST RAVS PHARAOH-ET	USA 69725122						
	KELLERCREST RAVSH PACKER-ET	USA 69725120						
	KELLERCREST ROBST LOVELL-ET	USA 69725127						
	KELLERCREST ROBUST DEWEY-ET	USA 69725123						
	KELLERCREST ROBUST DIGBY-ET	USA 69725124						
	KELLERCREST ROBUST KRISTO	USA 69725131						
14HO03174	KELLERCREST RONO ADONIS-ET	USA 18038844						
	KELLERCREST SEBASTIAN LARUE	USA 66861496						
	KELLERCREST SEBASTIAN LEROY	USA 69725090						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KELLERCREST SEBASTN LEN-ET	USA 69725099						
	KELLERCREST SEBSTN LENNY-ET	USA 69725100					C	
	KELLERCREST SHAN LAWFORD-ET	USA 72151633						
	KELLERCREST SHOTLE BINGO-ET	USA 66861477					C	
	KELLERCREST SHOTTLE LADD-ET	USA 63260520						
1HO02715	KELLERCREST SHOTTLE LANI-ET	USA 63260522						
	KELLERCREST SHOTTLE LION-ET	USA 63260519						
	KELLERCREST SHOTTLE LORD-ET	USA 63260524						
14HO06366	KELLERCREST SHOTTLE LUKI-ET	USA 66861480						
	KELLERCREST SILVER LAZER-ET	USA 74117374						
	KELLERCREST SILVR LAZARO-ET	USA 74117375						
	KELLERCREST SLVR LAZARUS-ET	USA 74117377						
1HO02866	KELLERCREST SOC LAURENS-ET	USA 63260526						
7HO10471	KELLERCREST SOCR LACOSTE-ET	USA 63260528						
	KELLERCREST SOCRATES LARRY	USA 63260525						
	KELLERCREST SUPER BUFORD-ET	USA 69725093						
	KELLERCREST SUPER HARVEY	USA 69725088						
29HO16116	KELLERCREST SUPER LANDIS-ET	USA 66861498						
29HO16114	KELLERCREST SUPER LANDRY-ET	USA 69725086					C	
	KELLERCREST SUPER LARS-ET	USA 66861492						
7HO11203	KELLERCREST SUPER LAYNE-ET	USA 69725085						
	KELLERCREST SUPER LAZAR-ET	USA 66861501					C	
7HO11204	KELLERCREST SUPER LAZARO-ET	USA 69725083					C	
7HO11202	KELLERCREST SUPER LEON-ET	USA 66861495						
	KELLERCREST SUPER LEVI-ET	USA 66861494						
14HO06760	KELLERCREST SUPER MARIO	USA 69725091						
	KELLERCREST SUPERSIRE LLOYD	USA 71164365						
	KELLERCREST SUPERSR CHARLOS	USA 72151631			C			
	KELLERCREST SUPERSR LESTER	USA 72151630						
	KELLERCREST SUPRS MORRIS-ET	USA 74117370			C			
	KELLERCREST SV SUNBURST-RED	USA 72151668						
	KELLERCREST TANGO LAWSON-ET	USA 72151657						
	KELLERCREST TANGO LOCKE-ET	USA 72151663		C				
	KELLERCREST TANGO LUDWIG	USA 72151664						
	KELLERCREST TIME DUPREE	USA 66861488						
29HO11785	KELLERCREST TRAVERS-ET	USA 135149430						
	KELLERCREST YANO LAVELLE-ET	USA 71164331						
	KELLOGG-BAY 1ST SERMON-ET	USA 72352778						
	KELLOGG-BAY ARM SPECTACLE	USA 69539038						
	KELLOGG-BAY ARMANI COAT	USA 72352756						
	KELLOGG-BAY ATW FREEMAN-ET	USA 69539023			C			
	KELLOGG-BAY BOMB HAZARD	USA 72352777						
	KELLOGG-BAY BOXER FLINT-ET	USA 69539025						
	KELLOGG-BAY BR HELIX-ET	USA 69539002						
	KELLOGG-BAY C SARGE-RED-ET	USA 69539035						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KELLOGG-BAY CAMERON CRAZIES	USA 69539043						
	KELLOGG-BAY CHASER SLIDE-ET	USA 72352787						
	KELLOGG-BAY CHSR STRYKER-ET	USA 72352786						
	KELLOGG-BAY CRANK IT COLD	USA 72352789						
	KELLOGG-BAY D FLOMAX	USA 72352775						
	KELLOGG-BAY DESTINATION	USA 69539027			C			
	KELLOGG-BAY EPIC FUTURE	USA 72352746						
	KELLOGG-BAY FUNDAMENTAL-ET	USA 69539020			C			
	KELLOGG-BAY HANGMAN-ET	USA 69539011						
	KELLOGG-BAY HERO AUGUSTUS	USA 72352750						
	KELLOGG-BAY HERO CAPTAIN	USA 72352748						
	KELLOGG-BAY HERO SATCH	USA 72352745						
	KELLOGG-BAY IMPRESSION 1173	USA 72352765						
	KELLOGG-BAY JABIR SILENCER	USA 72352767						
	KELLOGG-BAY JABIR STATUE	USA 72352764		C				
	KELLOGG-BAY JET COMBAT	USA 72352769						
	KELLOGG-BAY MERIDIAN SAM	USA 72352752						
	KELLOGG-BAY MOGUL MONEY	USA 72352747						
	KELLOGG-BAY MOGUL SPENCE	USA 72352749						
	KELLOGG-BAY MONTREY SALVAGE	USA 72352783						
	KELLOGG-BAY N CANDIDATE	USA 72352770						
	KELLOGG-BAY NU DIRECTION-ET	USA 72352751						
	KELLOGG-BAY PREN HANSEL-ET	USA 69345376						
	KELLOGG-BAY RACER CRASH	USA 72352772					C	
	KELLOGG-BAY RUSS HANSON-ET	USA 69539003						
	KELLOGG-BAY S MUD-RED	USA 72352763						
	KELLOGG-BAY SHAMROCK CLOVER	USA 69539040						
	KELLOGG-BAY SHAMROCK SHAKE	USA 69539039		C				
	KELLOGG-BAY SP HAPPENING-ET	USA 72352788						
	KELLOGG-BAY SPARTAN-RED-ET	USA 69539036						
1HO11943	KELLOGG-BAY SPR SEMESTER-ET	USA 72352781						
	KELLOGG-BAY SPR SESSION-ET	USA 72352779						
	KELLOGG-BAY SPR SPECIAL-ET	USA 72352780						
	KELLOGG-BAY SPR SWAGGER-ET	USA 72352782						
	KELLOGG-BAY SS CAPTION	USA 72352753						
	KELLOGG-BAY SS CREDENTIALS	USA 72352754					C	
	KELLOGG-BAY SS SABER	USA 72352755						
	KELLOGG-BAY SSHOT HACKMAN	USA 72352790						
	KELLOGG-BAY SUPER CROSS-ET	USA 69539019						
	KELLOGG-BAY SUPERCHARGER-ET	USA 69539018						
	KELLOGG-BAY SUPERSHOT FRESH	840003134164426						
	KELLOGG-BAY SUPERSIRE TIM	USA 72352757						
	KELLOGG-BAY T HYDROGEN-ET	840003134164423						
	KELLOGG-BAY TANGO CHALLENGE	USA 72352766						
	KELLOGG-BAY TESLA HALE-ET	840003134164421		C				

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KELLOGG-BAY TESLA HARBOR-ET	840003134164424		C				
	KELLOGG-BAY TESLA HOWL-ET	USA 72352791		C				
	KELLOGG-BAY TIMESAVER-ET	USA 69539010						
	KELLOGG-BAY TROY SPOON-TW	USA 72352785						
	KELLOGG-BAY TSLA HAWKING-ET	840003134164420						
	KELLOGG-BAY TSLA HOPKINS-ET	840003134164422		C				
	KELLOGG-BAY TSLA HOSTAGE-ET	840003134164425		C				
	KELLOGG-BAY WILLPWR HYPE-ET	USA 72352758						
	KELLOGG-BAY WT LESSONPLAN	USA 72352774	C	C				
11HO10695	KELSTEIN ALTADOLMAN	NLD 368104608			C			
11HO10901	KELSTEIN ALTAORLAN	NLD 494262203						
11HO10727	KELSTEIN ALTAORLANDO	NLD 494461970						
	KELSTEIN DEMASCUS	NLD 445320646						
29HO12347	KELSTEIN DYNASTY	NLD 295614894						
200HO07322	KELSTEIN MANN	NLD 372614027						
11HO07823	KELSTEIN OLIVER	NLD 295614274						
	KEMA ROBUST SHAR-ET	840003131196119						
	KEMA ROBUST SHAR2-ET	840003131196120		C				
	KEMRIDGE GABOR WOLVERINE	USA 71536533						
	KEMRIDGE GOLDCHIP IVAN	840003126430718						3
	KEMRIDGE GOLDCHIP SVEN	840003126430724						
	KEMRIDGE MCCUTCHEN CRUZ	USA 71536490						
1HO06024	KEMVIEW BEAUTY-ET	USA 17056520						
9HO02209	KEMVIEW BOONE-ET	USA 2261912						
1HO06241	KEMVIEW DUSTER 1 BENNY-ET	USA 17333074						
1HO06242	KEMVIEW DUSTER 2 BART-ET	USA 17333077						
14HO01626	KEMVIEW FRUITCAKE-ET	USA 2093128						
8HO02572	KEMVIEW HERON-ET	USA 2082220						
1HO06106	KEMVIEW MIKE-ET	USA 17181177			C			
21HO01962	KEMVIEW SHARKY	USA 2100783						
21HO01771	KEMVIEW ZORO-ET	USA 2072855						
202HO01623	KEN PP-ET	DEU 356779878						
200HO02390	KEN-DREN-BA FAME-ET	USA 138579025	C					
200HO10120	KENBERT JOURNAL-ET	CAN 11530653						
72HO00785	KENEMP MASTER	CAN 5623291	C					
1HO02023	KENGARY REX AMIGO-ET	USA 2121301						
29HO01782	KENJO ADMIRAL LEADSMAN	USA 1290616						
7HO04152	KENJO PRESCOTT-ET	USA 2140171						
1HO05326	KENJO RADBOURNE-ET	USA 2301269						
	KENMORE AARON REVOLT-RED-ET	USA 141237402					C	
	KENMORE ACCEL TANNER-ET	USA 141237439						1
	KENMORE AIKMN EMMITT-RED-ET	USA 56629647						
14HO07275	KENMORE ALCHEMY TRAK-RED-ET	USA 142096181						
14HO07485	KENMORE ALL DAY-ET	USA 56629617						
11HO00577	KENMORE ALTATLC-RED-ET	USA 72615044						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KENMORE ATWATER-RED-ET	USA 56629669						
	KENMORE CASPER-RED-ET	840003133791610						
	KENMORE CC-RED-ET	USA 141028417		C			C	3
151HO05836	KENMORE CITATION P-RED-ET	USA 142158979						1
	KENMORE CP CASH-RED-ET	USA 141876814						
	KENMORE DB COOPER-RED-ET	840003130321022					C	
	KENMORE DELTA-RED-ET	USA 142096220		C				3
	KENMORE DELUXE-RED-ET	USA 141028387					C	3
	KENMORE DESPERADO P-RED-ET	USA 56629612						
	KENMORE DESTRY TMZ-ET	USA 140909010						1
14HO06745	KENMORE DESTRY TRAVISTY-ET	USA 140775398						
	KENMORE DISHER-RED-ET	USA 56629719						
	KENMORE DOUBLEMINT-RED-ET	USA 141028369		C			C	3
	KENMORE DSTY TURMOIL-RED-ET	USA 140775361						1
14HO06635	KENMORE DTY TWIZZLER-RED-ET	USA 140667189			C			
	KENMORE EPIC DALLAS-ET	USA 142096163		C				3
	KENMORE EPIC DELTON-ET	USA 142096172		C				
	KENMORE HATFIELD-ET	USA 56629632						
	KENMORE JEEVES TENACIOUS-ET	USA 140775370						
	KENMORE JEEVES TENSION-ET	USA 140775400			C			
	KENMORE KINGPIN CLOUD-ET	840003130321020						
	KENMORE LADD CHASSIS P-ET	USA 142226238						
	KENMORE LARS TWITTER-RED-ET	USA 141757960						3
	KENMORE LARSON TEBOW-ET	USA 141757979		C				3
	KENMORE LOU GEHRIG P-RED-ET	USA 56629613						
	KENMORE LT COLUMBO-RED-ET	USA 56629723						
	KENMORE MASTER P-ET	USA 141876805						
	KENMORE MCCOY-ET	USA 56629631						
	KENMORE MILLION BARNES	USA 140315653		C				
	KENMORE MIZUNO P-ET	USA 56629628			C			1
	KENMORE MOGUL DECOY-ET	USA 142226210					C	
7HO12349	KENMORE MULTITUDE P-ET	USA 56629621						1
	KENMORE RB STYLES-RED-ET	USA 142226135		C				3
7HO11497	KENMORE RUDOLPH-RED-ET	USA 141028426		C				3
	KENMORE SAFECOM-ET	USA 56629633						
	KENMORE SHOOTER P-ET	USA 56629615						
14HO07405	KENMORE SHOWTIME-ET	USA 56629586						1
7HO11495	KENMORE SNAZZY-ET	USA 141028408		C				3
	KENMORE SNOIMP-RED-ET	USA 56629702						
	KENMORE SNOWFALL-ET	USA 142016961						
	KENMORE SNOWRACER	840003130321013						
	KENMORE SOLO CUP-RED-ET	USA 56629620						1
	KENMORE SS SLAMMER-ET	840003130321005						
	KENMORE SS SLICK-ET	840003130321004						
	KENMORE SUPERSTORM-ET	840003130321006						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KENMORE SWEET LOU P-ET	USA 56629614						
	KENMORE SYM TRIXTER-RED-TW	USA 56629629			C			1
	KENMORE THRASHER-RED-TW	USA 142096127			C			1
	KENMORE THRILLER-RED-TW	USA 142096118						1
	KENMORE TITAN-ET	USA 140492897			C			
151HO05835	KENMORE TRILLION-P-RED-ET	USA 56629618						1
	KENMORE TRITON-ET	USA 141048998						
	KENMORE WACO-TW	USA 56629644					C	
	KENMORE WALKER-TW	USA 56629645					C	
	KENMORE WL THUNDER-RED-ET	USA 141940919			C			3
	KENMORE YODER CHECKMATE P	840003130321012						
	KENMORE YOSEMITE SAM P-TW	USA 56629630						1
	KENMORE Z AUTOMATIC P-ET	840003133791611						
	KENTAM 479 PEOTI 707	USA 73184677						
	KENTVILLE DIXON-ET	CAN 7166940	C					
73HO01237	KENTVILLE STARDUST	CAN 391624						
	KENYON HILL SHAKE N BAKE	840003124554446						
	KENYON HILL SHAKESPERE MELO	840003124554459						
	KENYON-HILL BOMBERO LADD-ET	840003124554586						
	KENYON-HILL CHIP FALLIS	USA 70498653						
	KENYON-HILL COACH FHENOM	USA 71610460						
	KENYON-HILL DOMAN DALLIS-TW	USA 69894189						
	KENYON-HILL DOMAN DALLY-TW	USA 69894190						
	KENYON-HILL MICK FUN GUY	USA 71610452					C	
	KENYON-HILL PAYTON MANLY-ET	840003124554525						
	KENYON-HILL SHAMROCK FERN	USA 71610413						
	KENYON-HILL TRMPET EXCEL-TW	USA 70498497						
	KENYON-HILL TRPET EXCEED-TW	USA 70498498						
	KERBS-BROS BACARDI ELLIS-ET	USA 141362135						
	KERBS-BROS EPIC SWAGGER-ET	840003011285927						
	KERBS-BROS SNOW FREEZE-ET	USA 142422773			C			
	KERIEL ALCHEMY CHAD-ET	USA 71286911						1
11HO11336	KERIEL ALTAASHER-ET	USA 141784427						
	KERIEL ARIWAMI ATLAS-ET	USA 72399782						
	KERIEL BOOKEM ARI-ET	USA 141470764						
	KERIEL BOOKEM SABER	USA 141784409		C				
	KERIEL BUCCANEER-ET	USA 142158009						
	KERIEL CAMERON BANJO-ET	USA 72248250						
	KERIEL CAMERON COLE-ET	USA 71286891						
	KERIEL DAY SOLOMAN-ET	USA 72248252		C				
	KERIEL DESTROY BANK-ET	USA 140923380						1
	KERIEL DESTROY BILBREY-ET	USA 140923269						
	KERIEL DESTROY BING-ET	USA 140923371						
	KERIEL DOMINGO LEE-ET	USA 141144975						
	KERIEL EPIC BASIL-ET	USA 71286895						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KERIEL EPIC BEN-ET	USA 71286906						
	KERIEL EPIC BRISTEN-ET	USA 71286897						
	KERIEL GOLD CHIP BRECKEN-ET	USA 141784472						
	KERIEL LARGE COMMANDER	USA 72248239						
	KERIEL MITCH CADEN	USA 72248224						
	KERIEL NUMERO UNO 754-ET	USA 72273427						
	KERIEL NUMERO UNO 755-ET	USA 72273428						1
	KERIEL NUMERO UNO 758-ET	USA 72273431						
	KERIEL NUMERO UNO APOLLO-ET	USA 70554146						
	KERIEL OSTYLE LAKIN-ET	USA 71286885						
	KERIEL OSTYLE LARRY-ET	USA 71286884			C			
	KERIEL PLATO LANGDON	USA 141200495						
	KERIEL PT CARLY CAM 763-ET	USA 72063997						
	KERIEL PT CARLY CAME 767-ET	USA 72064001						
	KERIEL RUSSELL BENTLY-ET	USA 140923362						
	KERIEL SHAMROCK ADAM-ET	USA 71286865						
	KERIEL SHAMROCK CAM-ET	USA 141784502						
	KERIEL STAN-ET	USA 71286862						
	KERIEL STARSHINE-ET	USA 72590242						
	KERIEL SUDAN LUKE-ET	USA 71286875						
	KERIEL SUPER BANDIT-ET	USA 140761454						
	KERIEL UNO BACKFIRE-ET	USA 70554145						
	KERIEL UNO BRETT-ET	USA 72248243						1
1HO05207	KERKEN-DAY MTN LUKE TCG-ET	USA 2279266						
11HO10363	KERNDT ALTABRUNO-ET	USA 53556620						
11HO10146	KERNDT ALTADELLO	USA 138350583						
11HO09622	KERNDT ALTAHERK-ET	USA 50750484						1
	KERNDT BELL-ET	USA 55212988						
	KERNDT BERNARD-ET	USA 55212993						
200HO05642	KERNDT BIG-TIME-ET	USA 50750536						
	KERNDT BILLY-ET	USA 53556648						
200HO02516	KERNDT BRILLO-ET	USA 53556050						
	KERNDT CAIN-ET	USA 53556041						
14HO04354	KERNDT DELMAN QUEST DELF-ET	USA 207658105						
	KERNDT DETERMINE	USA 129234111	C					
29HO13361	KERNDT DONOVAN	USA 50750418						1
200HO09045	KERNDT EASTWOOD-ET	USA 207498002						
7HO09330	KERNDT EBENEZER-ET	USA 50750537						
200HO05380	KERNDT EDAN-ET	USA 50750498						1
7HO08400	KERNDT EMEY ELITE-ET	USA 207497878						
7HO10608	KERNDT FATE	USA 53556072						
1HO09354	KERNDT FBI EMEY CRI-ET	USA 62769023						
29HO13343	KERNDT GABLES	USA 50750414						1
29HO11986	KERNDT GEORGE-ET	USA 207513206	C					
	KERNDT GET-GO-ET	USA 55212969						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
200HO09810	KERNDT GLUE-ET	USA 207513224						
1HO08797	KERNDT GOBBER-ET	USA 50750499						
7HO08655	KERNDT GRUMPY POO-ET	USA 135729935	C					
7HO08487	KERNDT GRUMPY THRONE TY-ET	USA 207497467						
14HO04452	KERNDT GRUMPY THUNDER-ET	USA 207497168						
29HO11603	KERNDT GUARDIAN-ET	USA 207497319						
	KERNDT GUN-SHOT	USA 55212904						
	KERNDT GUNNER-ET	USA 53556044						
	KERNDT GURTH-ET	USA 55212961						
7HO08039	KERNDT MAE APACHE-ET	USA 207658114						
7HO08032	KERNDT MAGNA MAE PATZ-ET	USA 207497515						
7HO06889	KERNDT MATTIE OTTER-ET	USA 207128510						
14HO03739	KERNDT MATTIE TOTO LARK-ET	USA 207128707						
7HO06310	KERNDT MAXIE GOLDSTAR-ET	USA 121972198						
7HO06463	KERNDT MAXIE WINKY-ET	USA 124343728						
11HO05286	KERNDT MAXIE-ET	USA 18023892						
7HO07426	KERNDT MAY O-MY	USA 207182981						
	KERNDT MILKYWAY	USA 53556028						
	KERNDT PURSELL	USA 53556049						
11HO06175	KERNDT QUINN MARKET-ET	USA 207125571						
7HO07692	KERNDT SLEEPY DERRY-ET	USA 207652930			C			
14HO04296	KERNDT SLEEPY TEXAS	USA 207658150						
200HO05379	KERNDT STALLION	USA 50750432						1
200HO05548	KERNDT-PREMIER BUTZE-ET	USA 50750448						
	KERNDTNORROW SPARK FOCUS-ET	840003129749674						
	KERNDTWAY 1410-ET	USA 69502411						
	KERNDTWAY 1411-ET	USA 69502412						
	KERNDTWAY 1412-ET	USA 69502413						
	KERNDTWAY 1414-ET	USA 69502415						
	KERNDTWAY 1417-ET	USA 69502418						
	KERNDTWAY 1428-ET	USA 69502429						
7HO06192	KERNDTWAY AHAB	USA 120672273						
	KERNDTWAY CHUCK-ET	USA 69502409					C	
	KERNDTWAY CROSSTREK-ET	USA 69502410						
	KERNDTWAY DALLAS	USA 143121349						
11HO05182	KERNDTWAY DANCER-ET	USA 18007851	C					
14HO07352	KERNDTWAY DAZZLER-ET	USA 69502417						
7HO06014	KERNDTWAY DEADEYE-ET	USA 17306394						
11HO05181	KERNDTWAY DEALER-ET	USA 17306382						
7HO06015	KERNDTWAY DRAKE-ET	USA 17306397						
	KERNDTWAY EARL-ET	USA 128947102						
106HO02779	KERNDTWAY ELIMINATOR-P-ET	USA 69502408			C			1
	KERNDTWAY ELIXER-ET	USA 128946697						
11HO05534	KERNDTWAY ELWAY-ET	USA 122595334						
7HO12229	KERNDTWAY ERASER P-ET	USA 69502427						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
7HO04523	KERNDTWAY GOLDFINGER	USA 2167531			C			
200HO05483	KERNDTWAY HEARTLAND	USA 61655880						
200HO05482	KERNDTWAY HIGHWAY-ET	USA 61655863						
	KERNDTWAY HORNLESS BOB-ET	USA 63373215						
200HO05191	KERNDTWAY HOWIE-ET	USA 134221902	C					
200HO05522	KERNDTWAY HUMMER	USA 62432996	C					
7HO12228	KERNDTWAY KINGPIN-ET	USA 69502423						
	KERNDTWAY KROGAN	USA 69502430						
7HO12230	KERNDTWAY MAJOR-P-ET	USA 69502428						
	KERNDTWAY MONTEREY N891-ET	840003128769209						
	KERNDTWAY MONTEREY P285-ET	840003128769131						
	KERNDTWAY SCIENCE N643-ET	840003126822672						
200HO09416	KERNDTWAY SMED-ET	USA 61655804						
7HO04020	KERNDTWAY WHAMO-ET	USA 2109915						
198HO02011	KERPEN	DEU 1404866273						
	KERRY-K ARMSTEAD PRESTON	USA 62574613						
200HO05429	KERRY-K-MR ROBOT-ET	USA 61167606						
14HO02980	KETCHUM FARMS LEGACY-ET	USA 17248705						
1HO05707	KETCHUM FARMS VALAD-ET	USA 124557110						
1HO09176	KETCHUM MANFRED BO TIGER-ET	USA 62508428						
	KEVCREST LIGHTNING-ET	CAN 6650669						
	KEVCREST SANCHEZ	CAN 9488070						
200HO01803	KEVCREST SLOGAN	CAN 9325296						
	KEVDELL KODAK RYOT-RED	USA 72811137						
	KEVDELL MOGUL BIGWIG	USA 72811136		C				
	KEVDELL RYDER-RED	USA 74516771						
	KEVETTA MAYFIELD BURRIS-ET	USA 60017657			C			
536HO00363	KEVREL BOLTON HEATHROW	USA 66977322						
536HO00369	KEVREL CAMERON MIAMI	USA 72259039						
536HO00358	KEVREL COLBY CHICAGO	USA 66977289						
	KEVREL D MEARS	USA 71116155						
536HO00364	KEVREL DOMAIN MCCULLEY	USA 71116161						
29HO09317	KEVREL DUSTER BICKER-ET	USA 17206558						
14HO03036	KEVREL DUSTER CLARANCE-ET	USA 17248858						
536HO00701	KEVREL FREDDIE GIFFORD-ET	USA 69753108						
536HO00357	KEVREL JANCE MAGNUM	USA 64597490		C				
	KEVREL M GOLDRUSH-ET	USA 69753101		C				
	KEVREL M MANCHESTER-ET	USA 69753089					C	
	KEVREL M MASTERPEICE-ET	USA 69753088					C	
536HO00531	KEVREL MANOMAN MACK-ET	USA 69753081					C	
536HO00374	KEVREL MANOMAN MAGIC-ET	USA 72259047					C	
536HO00530	KEVREL MANOMAN MICK-ET	USA 69753082					C	
536HO00608	KEVREL MASSEY MEMPHIS	USA 73578441						
536HO00006	KEVREL MASSEY MOBILE	USA 72259079					C	
536HO00605	KEVREL MASSEY ZIPPER	USA 72259076						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KEVREL MCCUTCHEN MARTY	USA 72259062						
	KEVREL MILLION HASKOL	USA 69753099						
536HO00604	KEVREL MOGAL MASS-ET	USA 72259075						
536HO00371	KEVREL MOGUL MANCHESTER-ET	USA 72259055		C				
	KEVREL MOGUL MASTERPIECE-ET	USA 73578448		C				
536HO00370	KEVREL MOGUL MESSENGER-ET	USA 72259054		C				
536HO00375	KEVREL MOGUL MICKY-ET	USA 72259050						
	KEVREL OAK MAGNUM	USA 73578452						
	KEVREL OAK P.M. 1-ET	USA 73578463						
	KEVREL OAK P.M. 2-ET	USA 73578466						
	KEVREL OAK P.M.3-ET	USA 73578458						
	KEVREL OBSERVER MEMPHIS	USA 73578464						
536HO00361	KEVREL OMAN GIN	USA 64597485						
536HO00353	KEVREL OMAN MEMPHIS	USA 63022654						
536HO00365	KEVREL PERFORMER CHITOWN	USA 71116162						3
	KEVREL PERFORMER GADGET	USA 73578483						3
536HO00368	KEVREL PERFORMER GENERAL	USA 72259037					C	3
	KEVREL PERFORMER GIFT	USA 69753118						
536HO00367	KEVREL PERFORMER JACK	USA 71116181	C					
536HO00373	KEVREL PERFORMER MCCULLEY	USA 72259056						3
536HO00366	KEVREL PERFORMER MCKAY	USA 71116172						
	KEVREL PERFORMER MEXICO	USA 71116151						3
536HO00372	KEVREL PERFORMER MICKEL	USA 72259057						3
536HO00599	KEVREL PERFORMER MOBILE	USA 71116145						3
	KEVREL PLANET JANEY	USA 69753113						
536HO00529	KEVREL PLANET MAGNUT-ET	USA 69753080					C	
536HO00362	KEVREL PLANET MARKEY-ET	USA 66977318					C	
	KEVREL SANCHEZ GASPER	USA 66977328						
	KEVREL SANCHEZ MICKY	USA 66977333						
	KEVREL SAND MICH	USA 66977311	C					
536HO00607	KEVREL SHAN MALCOM	USA 73578440						
536HO00610	KEVREL SS GRAND	USA 72259083						
	KEVREL SUPER MEGAN	USA 73578456						
536HO00609	KEVREL SUPERS MOBILE	USA 73578446						
29HO10165	KEVREL WINCHESTER JOCKY-ET	USA 125841827						
200HO07149	KEYBOARD-ET	CZE 548710061						1
	KEYKOW SAMURAI	USA 133960178	C					
200HO09212	KEYKOW SUNDIN-ET	USA 61553546	C					
	KEYSTONE BOOTMAKER PHOENIX	USA 1897242						
11HO04746	KEYSTONE BWOOD PALMER-ET	USA 2298568						
1HO06032	KEYSTONE BWOOD PATERNO-ET	USA 2298569						
29HO13848	KEYSTONE DEAL	USA 63501625						
14HO05826	KEYSTONE LOU DUKE-ET	USA 138310884						
200HO03157	KEYSTONE PAUL-ET	USA 127493084						
	KEYSTONE PETER	USA 127492270						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
11HO05551	KEYSTONE POCATELLO-ET	USA 121802538						
14HO03597	KEYSTONE POTTER	USA 128367894						
7HO09228	KEYSTONE POTTER LOPEZ	USA 61871742						
7HO08269	KEYSTONE PRIMETIME-ET	USA 61553549	C					
14HO04280	KEYSTONE PROFESSOR-ET	USA 133227606						
14HO02909	KEYSTONE PYREX-ET	USA 17013014						
14HO05362	KEYSTONE SHOTTLE LECTOR-ET	USA 61871741					C	
7HO08458	KEYSTONE TACOMA-ET	USA 61553577						
	KEYSTONE VELWOOD-ET	USA 2223954						
	KEYSTONE VOLCANO-ET	USA 2086618						
7HO06278	KEYSTONE WADE POCONO-ET	USA 121802613						
	KFH ARMITAGE LEGAL-ET	USA 71503196						
	KFH EPIC BATTLE-ET	USA 71503219						
	KFH EPIC MR STORM-ET	USA 71503227						
	KFH EPIC SASSAFRASS-ET	USA 71503221						
	KFH EPIC SIEGE-ET	USA 71503223						
	KFH EPIC SITUATION-ET	USA 71503228						
	KFH EPIC STORY-ET	USA 71503226						
	KFH ERIE LANDRY-ET	USA 71503189						
	KFH ERIE LEBRON-ET	USA 71503213					C	
	KFH ERIE LIMELIGHT-ET	USA 71503190						
	KFH MOGUL MADDEN-ET	USA 71503214						
	KFH OSTYLE MYSTYLE-ET	USA 70641986			C			
	KFH RAVISH REALITY-ET	USA 69958428						
	KFH RAVISH REFLEX-ET	USA 70641957						
	KFH RAVISH RESPONSE-ET	USA 70641960						
	KFH SHAMROCK LANTERN-ET	USA 70641998						
	KFH SHAMROCK LARGE-ET	USA 70641997						
	KFH SHAMROCK LEGEND-ET	USA 71503198						
	KFH SHAMROCK LEVI-ET	USA 71503194						
	KFH SHAMROCK LIMELITE-ET	USA 70641995						
	KFH SHAMROCK LONGTIME-ET	USA 70641996						
	KFH SHAMROCK LUCKY-ET	USA 70641994						
	KFH SUPERSONIC SUPERMAN-ET	USA 71503202						
	KFJW CIGNA	USA 73677285					C	
	KFJW MUSCADET CADE	840003130086802						
	KFJW TANGO CARTER	USA 74474548						
200HO07850	KH CINDERDOOR-ET	NLD 969096292						
200HO07872	KH KATINKO-ET	DEU 1501453464						
7HO09578	KH RAMOS OLLIE	DEU 768472583						
1HO07138	KHILL-MVIEW EMERSON JAKE-ET	USA 131234994						
200HO01683	KHILL-MVIEW JUDGE-ET	USA 132665717						
	KHW ABELLA UNO 8420-ET	840003013474506						1
	KHW ABELLA UNO 8422-ET	840003013474508						
	KHW ABELLA UNO 8428-ET	840003013474514						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
200HO02880	KHW ABUNDANCE-ET	USA 71088589						1
	KHW ADAGIO-ET	840003130461230						
	KHW ALCHEMY ATTICUS-ET	USA 141841041						1
	KHW ALEEZA DETAIL PP 62-ET	USA 72107092						
	KHW ALEXANDER ABEL-ET	USA 140228618						1
	KHW ALONZO-ET	840003130461231						
200HO03989	KHW ANAHIEM-ET	USA 142006450						
	KHW AVI-RED-ET	840003013109444						
200HO06535	KHW AXFORD-RED-ET	USA 141832540						
200HO02128	KHW AXION-RED-ET	USA 137056628						
	KHW CASHCOIN ADLER-ET	840003123915100						1
	KHW CRANKIT AGAIN	840003123915128						
151HO00477	KHW ELM-PARK ACME-ET	USA 61720218						1
	KHW FARNEAR 1632-ET	USA 71088595			C			1
	KHW FARNEAR 1633-ET	USA 71088596			C			
	KHW FARNEAR 1634-ET	USA 71088597			C			1
	KHW FARNEAR 1635-ET	USA 71088598			C			1
	KHW HUNGER ALDRIDGE-ET	840003123915104						
	KHW HUNGER ALISTAIR-ET	840003123915103						
	KHW JOLICAP ALONZO-ET	USA 72300808						
	KHW JOLICAP ARTIFACT-ET	USA 72265768						1
7HO07872	KHW KITE ADVENT-RED-ET	USA 133002953						
	KHW LADD AVNER-RED-ET	840003123915099						
	KHW MILLION ADMIRAL-ET	USA 140289590						
	KHW MOGUL AMIGO	USA 142153675						
	KHW MOGUL AOKI-ET	USA 142158643						1
	KHW PARADISE ALPINE-ET	USA 142215904						
94HO13637	KHW REDBULL	USA 138108935						
	KHW SILVER AFREAK-ET	840003128204853						
	KHW SUPER ANGLER-ET	USA 140810167						
	KHW SYMP ALMIGHTY-RED-ET	USA 142418428						1
	KHW SYMPATICO AKEEGAN-ET	USA 142418419						
	KHW TALENT APPROVAL-ET	USA 138709480						1
	KHW TANGO AARON	840003123915101						
100HO11525	KHW UNO ANCHORAGE-ET	USA 142006496						
100HO11522	KHW UNO ARLINGTON-ET	USA 142006469						
100HO11523	KHW UNO ARMARILLO-ET	USA 142041211						
100HO11524	KHW UNO AUSTIN-ET	USA 142006487						
11HO06708	KICK-IT-UP ACTIVIST-ET	USA 129119896						
200HO04232	KICK-IT-UP AMO-ET	USA 121066224						
11HO04912	KICK-IT-UP DIVINE-ET	USA 17071529						
200HO01603	KICK-IT-UP JAVELIN-ET	USA 131761410						
11HO05043	KICK-IT-UP MECCA-ET	USA 17222806						
	KIGEZI ANDREAS	CAN 7290605						
	KIKO HALOGEN JACKPOT 1154	USA 74178587						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KIKO HALOGEN JAZZ 1162	USA 74178595						
	KIKO PONDER WENDALL 1133	USA 74178566						
11HO09865	KILDARE ALTAWYZER	CAN 103680070						1
200HO05851	KILDARE BLACKHAWK-ET	CAN 104838772	C					
	KILDARE BLINK-ET	CAN 101034025						
200HO05060	KILDARE BLISTER-ET	CAN 101034031						
7HO07933	KILDARE BLIZARD-ET	CAN 101034034						
200HO05061	KILDARE BLOOPER-ET	CAN 101034030						
200HO05251	KILDARE CELEBRATION-ET	CAN 8278738	C					
200HO05624	KILDARE CIA-ET	CAN 103680051						
	KILDARE DARTH VADER	CAN 10620144						
	KILDARE ENRICKO-ET	CAN 10780923						
	KILDARE INQUEST-ET	CAN 10797744						
200HO04944	KILDARE KASHMIR-ET	CAN 10810348						
200HO05658	KILDARE LAKOTA-ET	CAN 103680069						
200HO04365	KILDARE LEEVIS-ET	CAN 10522223						
	KILDARE MANSON-ET	CAN 6799052	C					
200HO04934	KILDARE MENHAT-ET	CAN 10810346						
200HO04933	KILDARE MENHIR-ET	CAN 10810344						
73HO02925	KILDARE MOLSON-ET	CAN 6799053						
	KILDARE PATRIARCHE	CAN 10689290						
200HO04710	KILDARE PEARLESS-ET	CAN 10780856						
11HO08028	KILDARE PHANTOM-ET	CAN 10810350						
11HO08160	KILDARE PHENOM-ET	CAN 101034024	C					
	KILDARE PHOENOMEN-ET	CAN 10720196						
	KILDARE PICASSO	CAN 8278724						
11HO08106	KILDARE PICTO-ET	CAN 7351066						
11HO08750	KILDARE PICTOR-ET	CAN 101034048						
11HO08126	KILDARE PIRRO-ET	CAN 9388187						
200HO05018	KILDARE THUNDERBIRD-ET	CAN 101034023						
73HO02175	KILLCREST ERIC	CAN 5782301						
200HO01395	KILLCROFT LARRY-ET	CAN 10658041						1
200HO07147	KILOBYTE-ET	CZE 548053061						1
8HO01959	KIM-MEL BELL JOY	USA 2013461						
8HO02563	KIM-MEL MARK HASSAN	USA 2090087	C					
	KINDIA MOGUL HARRY-ET	USA 72215912		C				
	KINDIA SNOWMAN FINE-ET	USA 71104982						
7HO10937	KING-EMERLING FUTURE-ET	USA 66676829					C	
	KING-EMERLING HARRINGTON-ET	USA 64821543						
29HO14803	KING-EMERLING M FAMOUS-ET	USA 65827991						
	KING-LANE 710-ET	USA 72426401						
	KING-LANE AIRNET PISTOL	USA 66553811						
	KING-LANE ALEX PARIS-ET	USA 66553737						
	KING-LANE ALEX PRESIDENT-ET	USA 66553736						
	KING-LANE ARM PEDRO-ET	USA 66553724						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD	
1HO10023	KING-LANE ARM PRESTIGE-ET	USA 66553726							
	KING-LANE ARM PRESTON-ET	USA 66553727							
	KING-LANE ARM PRINCETON-ET	USA 66553725							
	KING-LANE ASHOCK RATTLE-ET	USA 72426416							
	KING-LANE ATTUDE 735-RED-ET	USA 72426426							
	KING-LANE BELUGA POSCH-ET	USA 72426425							
	KING-LANE BOOKEM MILLY 678	USA 66553802							
	KING-LANE BOULDER MATT-ET	USA 66553751							
	KING-LANE BRADNICK PAXTON	USA 66553806							
	KING-LANE DADDY 698	USA 66553822		C					
	KING-LANE DEFENDER 740-ET	USA 72426431							
	KING-LANE DEFENDER 741-ET	USA 72426432							
	KING-LANE DEFENDER 742-ET	USA 72426433							
	KING-LANE EPIC PAYDAY	USA 66553814							
	KING-LANE GOLDCHIP 706	USA 72426397							
	14HO06144	KING-LANE GOLDWY POPULAR-ET	USA 65631805						
		KING-LANE IOTA PRISONER-ET	USA 66553781						
KING-LANE JAX-RED-ET		USA 72426400		C				3	
KING-LANE JEEVES 668-ET		USA 66553792							
KING-LANE JEEVES 673-ET		USA 66553797							
KING-LANE JEFFERSON-RED-ET		USA 72426407						3	
KING-LANE JIVES 676-ET		USA 66553800							
KING-LANE JIVES PAIR 681-ET		USA 66553805							
KING-LANE JUAN 686-ET		USA 66553810							
KING-LANE KRAMER 670-ET		USA 66553794		C					
KING-LANE KRAMER 671-ET		USA 66553795		C					
KING-LANE KRAMER 672-ET		USA 66553796							
KING-LANE KRAMER 674-ET		USA 66553798							
KING-LANE KRAMER 675-ET		USA 66553799			C				
KING-LANE LAYNE 721-ET		USA 72426412							
KING-LANE MAC PF PARKER-ET		840003004222447							
KING-LANE MAN-O FAMOUS-ET		USA 66553750							
KING-LANE MAN-O JOURNEY-ET		USA 66553752							
KING-LANE MAN-O LAKESIDE-ET		USA 66553753							
KING-LANE MANOMAN PRISON-ET		USA 66553779							
KING-LANE MCCUTCHEN 739-ET		USA 72426430							
KING-LANE MCCUTCHEN POWER		USA 72426408							
KING-LANE MILLON PARTNER-ET		USA 66553732			C				
KING-LANE MILLON PAWNEE-ET		USA 66553734			C				
7HO10860		KING-LANE MILLON PRAISES-ET	USA 66553733						
		KING-LANE MIXER 693-ET	USA 66553817					C	
		KING-LANE MIXER PLATO	USA 66553818						
	KING-LANE OMAN OMAN 677-ET	USA 66553801						1	
	KING-LANE OMAN OMAN 679-ET	USA 66553803						1	
14HO05342	KING-LANE OMAN PF PROMO-ET	USA 62051219			C				

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
7HO10841	KING-LANE P-K ALX PUMA-ET	USA 66260824						
	KING-LANE P-K ALX PURE-ET	USA 66260841						1
29HO14962	KING-LANE PAMEL PINGPONG-ET	USA 66553746						
	KING-LANE PAMELA PHANTOM-ET	USA 72426436						
	KING-LANE PAMELA PIRATE-ET	USA 72426437						
	KING-LANE PAMELA PLATEAU-ET	USA 72426438						1
	KING-LANE PARISH ZAYDEN-ET	USA 66553821						
	KING-LANE PARISH ZORO-ET	USA 66553820						
	KING-LANE PARTYROCK 743	USA 72426434						
	KING-LANE PEARSON CRI-ET	USA 65801613						
	KING-LANE PLANET MERCURY	USA 66553743						
	KING-LANE PLANET PATLIN-ET	USA 66553748						
	KING-LANE PORTAGE CRI-ET	USA 65801616						
14HO05623	KING-LANE PORTFOLIO-ET	USA 62051242	C					
	KING-LANE POSH AIRNET 727	USA 72426418			C			
200HO03739	KING-LANE PROFILE-ET	USA 66553738						1
	KING-LANE PROPHECY-ET	USA 66553773						
	KING-LANE SHAMROCK PRANCER	USA 66553819						
	KING-LANE SHAN MAGICAL-ET	USA 72426410						
	KING-LANE SHAN PIRATE	USA 72426403						
	KING-LANE SHOTTLE PUZZLE-ET	USA 62051279					C	
	KING-LANE SUPERSIRE 704	USA 72426395						
	KING-LANE SUPERSIRE 705-ET	USA 72426396						
	KING-LANE SUPERSIRE JET	USA 72426402						
	KING-LANE SUPRSIRE PROBABLE	USA 72426414						
7HO10103	KING-LANE SVB PERFECTION-ET	USA 62051273						
	KING-LANE TEMPTING PAUL-ET	USA 66553730						
7HO10104	KING-LANE TOYSTORY PRIZE	USA 62051270						
	KING-LANE WINDSOR 736-ET	USA 72426427						
	KING-LANE YANG PREMIER-ET	USA 73787485						
	KING-LANE YANG PROLIFIC-ET	USA 73787486						
202HO01612	KINGDOM-ET	DEU 1405093095						
1HO07601	KINGDOMHAVEN DUTCH BOY JAKE	USA 60656003						
14HO06541	KINGDOMHAVEN MAN MALT-ET	840003006963042						
1HO05731	KINGDOMHAVEN MANFRED FED-ET	USA 126842326			C			
29HO13017	KINGDOMHAVEN OMAN FAVRE-ET	USA 61942244			C			
200HO10496	KINGEMER DELFINO-ET	840003125508673						
	KINGEMERLING ALC FARNELL-ET	840003130808029						
	KINGEMERLING ALCO FASTA-ET	840003130808052						
	KINGEMERLING ALCO FELIX-ET	840003130807993						
11HO11786	KINGEMERLING ALTAFAFAD-ET	840003130807763			C			
	KINGEMERLING BAY FESTUS-ET	840003130807916						
	KINGEMERLING BAYNT FARAY-ET	840003130807971						
	KINGEMERLING BAYNT FARGO-ET	840003130807970						
	KINGEMERLING BOAST FINCH-ET	840003130807811						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGEMERLING BOMB DALLAN-ET	840003125508677						
	KINGEMERLING BOMB DALLAS-ET	840003125508683						
	KINGEMERLING BSTFL FARRO-ET	840003130807790			C			
	KINGEMERLING DSCNT-P DRAGON	USA 71875825			C			
	KINGEMERLING FACETIME-ET	USA 70807852						
7HO12627	KINGEMERLING FRANKLIN-ET	USA 71875829						
	KINGEMERLING GUN FANFARA-ET	840003130807960						
	KINGEMERLING KBOY FLANN-ET	840003129103293			C			
	KINGEMERLING KBOY FLUX-ET	840003129103291						
	KINGEMERLING KNGBY FARIS-ET	USA 71876007						
	KINGEMERLING MILS FERLIN-ET	USA 71875914						
	KINGEMERLING MILS FERRAN-ET	USA 71875916						
	KINGEMERLING MNTRS FONDA-ET	USA 71875951						
	KINGEMERLING MONTRS FLYN-ET	USA 71875948			C			
	KINGEMERLING OAK FLEMING-ET	USA 71875703			C			
	KINGEMERLING OCTVN FONSY-ET	840003130807689						
	KINGEMERLING OK FLETCHER-ET	USA 71875680			C			
	KINGEMERLING OS FLETWOOD-ET	USA 70041172						
	KINGEMERLING OST FAB-ET	USA 70041155						
	KINGEMERLING OST FURILLO-ET	USA 70041156			C			
	KINGEMERLING PURE FOSTER	840003125508869						
	KINGEMERLING SPRNG FARON-ET	840003130807773						
	KINGEMERLING YANO FRANK-ET	USA 70041166					C	
9HO01360	KINGLEA LEADER	USA 1926780						
202HO01614	KINGMAN	NLD 920855490						
	KINGS-EMERLING ALTAFLUME-ET	USA 65827972						
	KINGS-EMERLING HISTRUNG-ET	USA 63210252			C			
7HO10088	KINGS-EMERLING I HARDING-ET	USA 63210251			C			
	KINGS-EMERLING I HOORAH-ET	USA 64821540			C			
	KINGS-EMERLING M FAZER-ET	USA 65828001					C	
29HO14688	KINGS-EMERLING P FRANNIE-ET	USA 65827971					C	
	KINGS-EMERLING P HARKEN	USA 65827956						
7HO11159	KINGS-EMERLING S FOXON-ET	USA 69324700						
	KINGS-HEAVEN AD CELL-RED-ET	USA 74270086						1
	KINGS-HEAVEN AD CELO-RED-ET	USA 74270080						
	KINGS-HEAVEN AD CLAY-ET	USA 74270088						
	KINGS-HEAVEN DUCATI BOBCAT	USA 143028132						
182HO00916	KINGS-RANSOM 1ST DEACON-ET	USA 74567943						
14HO07748	KINGS-RANSOM 1ST DEWARS-ET	USA 74567945						
7HO10870	KINGS-RANSOM A APPLEFEST-ET	USA 65828003						1
91HO05150	KINGS-RANSOM A DARKTOWN	USA 63210184						
1HO08825	KINGS-RANSOM A DESPERADO-ET	USA 61488647						
	KINGS-RANSOM A DEVERY-ET	USA 71689529			C			1
	KINGS-RANSOM A DOCKSIDE-ET	USA 70807887						1
	KINGS-RANSOM A DRAGON-ET	USA 70807869			C			1

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM A DRILL-ET	USA 70807890						
	KINGS-RANSOM A DROVER-ET	USA 71689521			C			1
	KINGS-RANSOM A EARNEST-ET	USA 70807871						
7HO10868	KINGS-RANSOM A EASTWING-ET	USA 65827987						
	KINGS-RANSOM A EASYST-ET	USA 70807876						
	KINGS-RANSOM A EDGE-ET	USA 65827949						
	KINGS-RANSOM A EGGPLANT-ET	USA 70807874						
	KINGS-RANSOM A ELIXIR	USA 70807895						
	KINGS-RANSOM A ELWIN-ET	USA 65827964						
	KINGS-RANSOM A ENERGIZE-ET	USA 65827993						
	KINGS-RANSOM A ENGLISH-ET	USA 70807913						
	KINGS-RANSOM A EPPIC	USA 64821587						
	KINGS-RANSOM A EXCELL	USA 70807893						
	KINGS-RANSOM A EXTRACTOR-ET	USA 65827965						
	KINGS-RANSOM A GRADEN-ET	USA 65827963						
	KINGS-RANSOM A HEARTH	USA 70807907						
	KINGS-RANSOM A HOWLAND	USA 65827997		C				
	KINGS-RANSOM A LOMEX-ET	USA 63210232	C					
	KINGS-RANSOM A OSCAR-ET	USA 65827970						
	KINGS-RANSOM A OSTER-ET	USA 65827974						1
	KINGS-RANSOM A PUCKERUP	USA 71689563						
	KINGS-RANSOM A RICARDO	USA 69324709						
	KINGS-RANSOM A RICKY-ET	USA 70807924						
	KINGS-RANSOM A ROGER-ET	USA 65827973						1
	KINGS-RANSOM A RUSSELL	USA 64821580						
	KINGS-RANSOM A TRIMAX	USA 65827960						
7HO08828	KINGS-RANSOM ADAM DRURIE-ET	USA 61488643						
7HO08734	KINGS-RANSOM ADM DONALDO-ET	USA 61488660						
	KINGS-RANSOM ALTAADJUNCT	USA 63210231				C		
11HO10467	KINGS-RANSOM ALTADAPPER	USA 64821565	C					
11HO09903	KINGS-RANSOM ALTADARING	USA 62661941						
11HO10060	KINGS-RANSOM ALTADARKSKY-ET	USA 63210172						
11HO10879	KINGS-RANSOM ALTAERRICK-ET	USA 65827996						
11HO10244	KINGS-RANSOM ALTAJUNCTION	USA 63210236						
11HO10331	KINGS-RANSOM ALTARADICAL-ET	USA 64821546						
	KINGS-RANSOM ALTARANCHO-ET	USA 63210207						
11HO09991	KINGS-RANSOM ALTARENO-ET	USA 62661946						
	KINGS-RANSOM ALTARIDEAU-ET	USA 63210221						
11HO10248	KINGS-RANSOM ALTAROCKSTAR	USA 63210218						
11HO10794	KINGS-RANSOM ALTASARGE	USA 65827968						
29HO16103	KINGS-RANSOM AMBROSE-ET	USA 69324707						
	KINGS-RANSOM ARMSTEAD 9477	USA 65827958						
	KINGS-RANSOM B 10264	840003129373934						
	KINGS-RANSOM B ADVIL-ET	USA 69764600						
	KINGS-RANSOM B ALEVE-ET	USA 69764598						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM B DALLAS-ET	USA 71689560						
14HO07772	KINGS-RANSOM B DARKNIGHT-ET	USA 74567973						
	KINGS-RANSOM B DAVID-ET	USA 69764619						
	KINGS-RANSOM B DEANO-ET	USA 69764611						
	KINGS-RANSOM B DECKMAN-ET	USA 69764602						
	KINGS-RANSOM B DEKE-ET	USA 64821558						
	KINGS-RANSOM B DELAWARE-ET	840003129373922						
	KINGS-RANSOM B DENNIS-ET	USA 71689559						
	KINGS-RANSOM B DETAIN-ET	USA 72372746						
	KINGS-RANSOM B DIABOLIC-ET	USA 69764620						
	KINGS-RANSOM B DILLIGAF-ET	USA 72372771						
	KINGS-RANSOM B DIRECTEUR-ET	840003129373969						
	KINGS-RANSOM B DOZER-ET	USA 71689564						
	KINGS-RANSOM B DRIFT-ET	USA 72372773			C			
	KINGS-RANSOM B EARMARK	USA 69764601					C	
	KINGS-RANSOM B EARNER	USA 69324689						
	KINGS-RANSOM B EGAN	USA 70807831						
	KINGS-RANSOM B ELLIOT	USA 69324692						
1HO09563	KINGS-RANSOM B ELOQUENT-ET	USA 63210180						
	KINGS-RANSOM B FAVOR-ET	USA 69324703		C				
	KINGS-RANSOM B GLARE	USA 70807915						
	KINGS-RANSOM B GROUPIE	USA 69764579						
	KINGS-RANSOM B LASER	USA 69324717						
	KINGS-RANSOM B MR RAPID	USA 69764637						
	KINGS-RANSOM B NICKER	USA 69764582						
	KINGS-RANSOM B OAKHURST-ET	USA 69324714			C			
	KINGS-RANSOM B OFFER	USA 69764652						
	KINGS-RANSOM B POTION	USA 70807918						
29HO14380	KINGS-RANSOM B RAEF-ET	USA 64821572						
	KINGS-RANSOM B RAPID-ET	USA 64821556						
	KINGS-RANSOM B REGULATOR-ET	USA 69324702						
	KINGS-RANSOM B REWARD-ET	USA 69324691			C			
	KINGS-RANSOM B RIGID-ET	USA 72372754						
29HO13991	KINGS-RANSOM B RUBLE	USA 63210210						
1HO07279	KINGS-RANSOM B RUCKUS-ET	USA 60535088						
	KINGS-RANSOM B TOWER	USA 70807905						
	KINGS-RANSOM BMBRO DANNY-ET	USA 74158501						
7HO08827	KINGS-RANSOM BOLIVR RYAN-ET	USA 61488672						
	KINGS-RANSOM BOMBERO DON-ET	USA 74158507						
29HO11441	KINGS-RANSOM BOND DUPLICATE	USA 61069838						
	KINGS-RANSOM C DALEY-ET	USA 72372709						
7HO12641	KINGS-RANSOM C DARIUS-ET	USA 73556047						
29HO18051	KINGS-RANSOM C DODGE-ET	USA 74193745						
	KINGS-RANSOM C DOWSER-ET	USA 69764589						
7HO06073	KINGS-RANSOM C DRIBBLE-ET	USA 2302179						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM C DRIPPER	USA 69764610						
	KINGS-RANSOM C DRONE-ET	USA 74193731						
11HO04738	KINGS-RANSOM C DROP-ET	USA 2298379						
	KINGS-RANSOM C DRUDGE-ET	USA 72372712						
	KINGS-RANSOM C DULACK-ET	USA 69764586						
	KINGS-RANSOM C EARMARK	USA 69764646						
	KINGS-RANSOM C EQUADOR	USA 69324682						
	KINGS-RANSOM C GRAVITY	USA 70807866						
	KINGS-RANSOM C GROVER	USA 69764624						
14HO07508	KINGS-RANSOM C LARNIE	USA 72372767						1
	KINGS-RANSOM C RECKER	USA 71689605						
	KINGS-RANSOM C REPEAT-ET	USA 69324681			C			
7HO11031	KINGS-RANSOM C REVERT-ET	USA 69324684						
	KINGS-RANSOM C RUCKUS-ET	USA 69324722			C			
	KINGS-RANSOM CAMARO DIAL-ET	840003126625923						
	KINGS-RANSOM CM THUMPER	USA 71689566						
	KINGS-RANSOM D DANCER	USA 69764565			C			
	KINGS-RANSOM D DERRINGER	USA 72372693						
	KINGS-RANSOM D DIFFY-ET	USA 72372723					C	
29HO11200	KINGS-RANSOM D DISCO-ET	USA 60718331						
	KINGS-RANSOM D DOLPHIN	USA 65827977						
	KINGS-RANSOM D DOMINATE-ET	USA 73773413						
	KINGS-RANSOM D DONALD-TW	USA 73556037						
	KINGS-RANSOM D DRAXXIN	USA 72372743						
	KINGS-RANSOM D DUVAL-ET	USA 72372722						
182HO00856	KINGS-RANSOM D DWIGHT-ET	USA 72372721						
	KINGS-RANSOM D EASTMAN-ET	USA 70807883						
	KINGS-RANSOM D EBAY-ET	USA 70807845						
	KINGS-RANSOM D ELMTREE-ET	USA 70807875						
	KINGS-RANSOM D EMBLEM-ET	USA 70807898						
	KINGS-RANSOM D ENERGY	USA 69764583						
14HO02970	KINGS-RANSOM D EVENT	USA 17115165						
	KINGS-RANSOM D FACTOR-ET	USA 70807836						
	KINGS-RANSOM D FAZER-ET	USA 70807834						
	KINGS-RANSOM D FLYBOY-ET	USA 70807843						
	KINGS-RANSOM D GARNET-ET	USA 65828031						
	KINGS-RANSOM D GATOR-ET	USA 65828028						
	KINGS-RANSOM D GORDON-ET	USA 65828029						
	KINGS-RANSOM D GRANDEL-ET	USA 70807838						3
	KINGS-RANSOM D HAMISH	USA 69764574		C				
	KINGS-RANSOM D IMPRINT-ET	USA 65828020						
	KINGS-RANSOM D OVEN	USA 73556054						
	KINGS-RANSOM D PATH	USA 69764638						
	KINGS-RANSOM D PAVER-ET	USA 69324723						
183HO02187	KINGS-RANSOM D RAGTIME	USA 72944968						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM D RECHECK-ET	USA 73556022						
	KINGS-RANSOM D RESIDENT-ET	USA 70807842						
	KINGS-RANSOM D REVEST-ET	USA 70807848			C			
	KINGS-RANSOM D RHINEBECK-ET	USA 69324693						1
1HO06152	KINGS-RANSOM D RIDDLE	USA 17114186						
	KINGS-RANSOM D RIDGETOP-ET	USA 69764567			C			
	KINGS-RANSOM D RINGO	USA 73556020						
	KINGS-RANSOM D RIVET-ET	USA 70807882						
	KINGS-RANSOM D ROCKHARD-ET	USA 69764587						
	KINGS-RANSOM D RUSSIAN	USA 70807863			C			
	KINGS-RANSOM D THRUST	USA 69764576						
	KINGS-RANSOM D TICKET	USA 69764570			C	C		
29HO18222	KINGS-RANSOM DAWNING-ET	840003129373928						
29HO17563	KINGS-RANSOM DAWSON-ET	USA 71689617						
29HO10716	KINGS-RANSOM DAYLIGHT-ET	USA 60141590						
14HO04166	KINGS-RANSOM DB DUTCHMAN-ET	USA 60718314						
	KINGS-RANSOM DC DALLAS	USA 69324694		C				
250HO12798	KINGS-RANSOM DECREE-ET	USA 74567946						
29HO11204	KINGS-RANSOM DEGREE-ET	USA 60718339						
29HO11765	KINGS-RANSOM DELTON-ET	USA 61488586						
200HO10129	KINGS-RANSOM DEPUTY	USA 72372724						
	KINGS-RANSOM DIFFERENCE-ET	USA 74193775						
29HO13010	KINGS-RANSOM DONAIRO-ET	USA 61488652						
11HO09350	KINGS-RANSOM DONATELLO-ET	USA 61488631						
29HO13219	KINGS-RANSOM DOVER-ET	USA 62030422						
	KINGS-RANSOM DSTINCTN 10008	USA 72944930		C				
7HO09031	KINGS-RANSOM DUCE ROSCOE-ET	USA 62030429						
29HO16658	KINGS-RANSOM DURAND-P	USA 70807841						1
29HO13992	KINGS-RANSOM DURWOOD	USA 63210219						
	KINGS-RANSOM E ADLINK-ET	USA 70807909						
	KINGS-RANSOM E ADVIL-ET	USA 70807911						
	KINGS-RANSOM E ALTOID-ET	USA 70807914						
	KINGS-RANSOM E ARDENT-ET	USA 70807910						
	KINGS-RANSOM E CLASSACT-ET	USA 70807917						
	KINGS-RANSOM E CLINT-ET	USA 70807921						
	KINGS-RANSOM E CLIVE-ET	USA 71689520						
	KINGS-RANSOM E EARLVILLE	USA 70807864						
	KINGS-RANSOM E RAMPAGE-ET	USA 71689525						
29HO14332	KINGS-RANSOM EAGLE-ET	USA 64821567						
29HO14724	KINGS-RANSOM ELVIN-ET	USA 65827976						
1HO09691	KINGS-RANSOM ERASMUS CRI-ET	USA 63285324						
1HO09800	KINGS-RANSOM ERDMAN CRI-ET	USA 65801539						
183HO02137	KINGS-RANSOM EXIT ONLY-ET	USA 65828026						
29HO16002	KINGS-RANSOM EXPERT-ET	USA 69324677						
	KINGS-RANSOM F CLEM-ET	USA 73556015						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM F DOLPH	USA 64821563	C					1
	KINGS-RANSOM F RAVE-ET	USA 69764557						
	KINGS-RANSOM F REALTIME-ET	USA 73556014						
	KINGS-RANSOM F RICHMAX	USA 71689545						
	KINGS-RANSOM F RIPTIDE	USA 71689537						
7HO09489	KINGS-RANSOM FBI ELI	USA 62661923						
7HO09490	KINGS-RANSOM FBI LEVER-ET	USA 62661955						
	KINGS-RANSOM FIDEL CRI-ET	USA 69560600		C				
7HO08544	KINGS-RANSOM FNLY DAWSON-ET	USA 61488605	C					
1HO06384	KINGS-RANSOM G DAPPER-ET	USA 120557538						
97HO40904	KINGS-RANSOM G DARSON-ET	USA 70807850						1
1HO10859	KINGS-RANSOM G DENZEL-ET	USA 70807849						1
	KINGS-RANSOM G DEWARS-ET	USA 69764631						
	KINGS-RANSOM G DONNAN-ET	USA 72372703						
	KINGS-RANSOM G EMORIX	USA 71689565						
	KINGS-RANSOM G FACETIME-ET	USA 71689612						
	KINGS-RANSOM G FERVOR-ET	USA 69764594		C				
	KINGS-RANSOM G FIRESTORM-ET	USA 69764597		C				
	KINGS-RANSOM G FRACTURE-ET	USA 71689609		C				
	KINGS-RANSOM G FRAMER-ET	USA 69764621						
	KINGS-RANSOM G GRANDISH-ET	USA 69764635						
	KINGS-RANSOM G RECKER-ET	USA 69324708						
	KINGS-RANSOM G REQUEST-ET	USA 69764640						
	KINGS-RANSOM G ROCKET-ET	USA 69324710						
	KINGS-RANSOM G RUPERT-ET	USA 69764642						
	KINGS-RANSOM GC DEVLIN-ET	USA 70807886						
	KINGS-RANSOM GC PHANTOM-ET	USA 71689552						
	KINGS-RANSOM GC POWDER-ET	USA 70807912						
	KINGS-RANSOM GL DONNER-ET	USA 72372702						1
7HO12558	KINGS-RANSOM H DESMOND-ET	USA 72944969						
	KINGS-RANSOM H DOWNLOAD-ET	840003132356892					C	
29HO17534	KINGS-RANSOM H FINNIUS	USA 71689610		C				
	KINGS-RANSOM H ROME-ET	USA 72944958						
	KINGS-RANSOM I D-STYLE-ET	USA 69764641						
1HO05231	KINGS-RANSOM I DANNY TCG-ET	USA 2286707						
	KINGS-RANSOM I DIGITAL-ET	USA 69764645						
	KINGS-RANSOM I DIVER-ET	USA 69764644						
7HO11789	KINGS-RANSOM I DODGER-ET	USA 69764643						
	KINGS-RANSOM I EDGEMONT-ET	USA 69764627						
	KINGS-RANSOM I EQUATOR-ET	USA 69764625						
	KINGS-RANSOM I EWING-ET	USA 69764623						
	KINGS-RANSOM I REMAKE-ET	USA 70807837			C			
	KINGS-RANSOM I RESIDENT-ET	USA 70807840			C			
182HO00857	KINGS-RANSOM J DEEVER-ET	USA 72372740						
	KINGS-RANSOM J DECLAN-ET	USA 72372739						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM J DEREK	USA 65828000						
	KINGS-RANSOM J DESTOMAX-ET	USA 69324699						
	KINGS-RANSOM J DIMMICK-ET	USA 65827957						
	KINGS-RANSOM J DIRECT-ET	USA 72372727						
	KINGS-RANSOM J DJ-ET	USA 72372731			C			
11HO04119	KINGS-RANSOM J DOC-ET	USA 2247307						
	KINGS-RANSOM J DOCKET-ET	USA 72372738						
	KINGS-RANSOM J DROID	USA 70807868						
	KINGS-RANSOM J DRUMBEAT-ET	USA 63210248						
	KINGS-RANSOM J DRYDEN-ET	USA 72372732						
	KINGS-RANSOM J DURANGO-ET	USA 72372730						
1HO07638	KINGS-RANSOM J GLENSTAR-ET	USA 60718381						
	KINGS-RANSOM J LOCKDOWN	USA 69764651						
	KINGS-RANSOM J OLSON-ET	USA 65827985						
29HO14425	KINGS-RANSOM J OLYMPIC-ET	USA 64821573				C		
	KINGS-RANSOM J OVEX-ET	USA 65827986					C	
	KINGS-RANSOM J OXBOW-ET	USA 64821575				C		
	KINGS-RANSOM J REBAR-ET	USA 71689522			C			
	KINGS-RANSOM J REVLON	USA 70807870						
	KINGS-RANSOM J ROOMIE	USA 72944967						
	KINGS-RANSOM J ROWLING-ET	USA 70807923			C			
	KINGS-RANSOM J RYDER-ET	USA 70807922			C			
	KINGS-RANSOM K DARING-ET	USA 73773418						
	KINGS-RANSOM K DEFERENCE-ET	USA 74193774						
	KINGS-RANSOM K DETOUR-ET	USA 73773408						
7HO12701	KINGS-RANSOM K DOMINANT-ET	USA 73773425						
7HO12260	KINGS-RANSOM K RINGTONE-ET	USA 71689614						
	KINGS-RANSOM L ERNIE-ET	USA 69764607						
	KINGS-RANSOM L FALLON-ET	USA 69764573		C				
	KINGS-RANSOM L FAXTER-ET	USA 69764562						
	KINGS-RANSOM L FOGSTORM-ET	USA 69764569						
	KINGS-RANSOM L FOSSLER-ET	USA 69764571						
	KINGS-RANSOM L FUGLE-ET	USA 69764572		C				
	KINGS-RANSOM L GAMER-ET	USA 70807930						
	KINGS-RANSOM L GEMSTONE	USA 71689535						1
	KINGS-RANSOM L GRANITE-ET	USA 69764603						3
	KINGS-RANSOM L GRECO	USA 71689532						
	KINGS-RANSOM L LANDMINE-ET	USA 71689584					C	
	KINGS-RANSOM L LILLTON-ET	USA 65827959						
	KINGS-RANSOM L PASTOR	USA 71689538						
	KINGS-RANSOM L RAPTURE	USA 71689574						
	KINGS-RANSOM L REFLEX-ET	USA 71689553						
	KINGS-RANSOM L RIPPLE-P	USA 73556052						
	KINGS-RANSOM L ROOFER-ET	USA 69764609						
	KINGS-RANSOM L ROWMAN-ET	USA 69764630			C			

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM L RUSTY	USA 71689572						
7HO09131	KINGS-RANSOM LDN RIPPLE-ET	USA 62030466						
	KINGS-RANSOM LEIF KEVIN	USA 65827984						
14HO06771	KINGS-RANSOM LES DIVERT-ET	USA 69764563						
1HO06382	KINGS-RANSOM LL DRAGON-ET	USA 17387920						
29HO11959	KINGS-RANSOM LNT DISTANT-ET	USA 61488638						
	KINGS-RANSOM M ABFLEX-ET	USA 65827988		C				
	KINGS-RANSOM M ASPIRIN-ET	USA 72372733					C	
	KINGS-RANSOM M AVALANCHE	USA 71689561						
	KINGS-RANSOM M AXIOM	USA 65827936						
	KINGS-RANSOM M CAESAR-ET	USA 71689557						
	KINGS-RANSOM M CENTURY-ET	USA 71689546						
	KINGS-RANSOM M CLAMOR-ET	USA 71689544						
	KINGS-RANSOM M CLEAVER-ET	USA 71689541						
	KINGS-RANSOM M CLIPPER-ET	USA 71689543						
	KINGS-RANSOM M CLOMAR-ET	USA 71689571						
	KINGS-RANSOM M CORE-ET	USA 71689554						
	KINGS-RANSOM M COVEY-ET	USA 71689558						
	KINGS-RANSOM M DALLAS	USA 71689534						
	KINGS-RANSOM M DECIMAL-ET	USA 71689595						
	KINGS-RANSOM M DELUXE	USA 65827983						
29HO14278	KINGS-RANSOM M DENNER-ET	USA 64821552						
14HO07547	KINGS-RANSOM M DESIGN-ET	USA 72372736						
	KINGS-RANSOM M DISNEY-ET	USA 72372700						
29HO16936	KINGS-RANSOM M DISPATCH	USA 71689587						
7HO12259	KINGS-RANSOM M DISTILLER-ET	USA 72036990						
	KINGS-RANSOM M DRAXEN-ET	USA 65828008						
1HO06603	KINGS-RANSOM M DRONE-ET	USA 122793321						
9HO02831	KINGS-RANSOM M DUCE-ET	USA 60082142						
	KINGS-RANSOM M DUDE-RED-ET	USA 72372737						
29HO16993	KINGS-RANSOM M DUMARS-ET	USA 71689601						
7HO08194	KINGS-RANSOM M DUNSTON-ET	USA 61488580						
	KINGS-RANSOM M EASY-ET	USA 65827944						
	KINGS-RANSOM M EDGE-ET	USA 65828014						
	KINGS-RANSOM M ELWAY-ET	USA 65827978						
1HO10238	KINGS-RANSOM M ENSIGN	USA 65828006		C				
	KINGS-RANSOM M EQUIN-ET	USA 65828009						
	KINGS-RANSOM M EQUINOX-ET	USA 65827947						
7HO11034	KINGS-RANSOM M ERASER-ET	USA 69324678						
	KINGS-RANSOM M ERIC-ET	USA 64821568						
29HO14723	KINGS-RANSOM M EWING-ET	USA 65827980		C				
	KINGS-RANSOM M EXCURSION	USA 70807906						
	KINGS-RANSOM M EXXON-ET	USA 63210193						
	KINGS-RANSOM M FUDGE	USA 65828004						
	KINGS-RANSOM M HIGGS	USA 71689591						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM M LAMAR-ET	USA 71689573						
	KINGS-RANSOM M LAZER	USA 65827992						
	KINGS-RANSOM M LENNON-ET	USA 65828005						
	KINGS-RANSOM M LITHIUM	USA 65827998					C	
	KINGS-RANSOM M OGRE-ET	USA 65827932						
	KINGS-RANSOM M RANDY-ET	USA 70807927						
29HO11199	KINGS-RANSOM M RASCAL-ET	USA 60718320						
	KINGS-RANSOM M REASON-ET	USA 70807925					C	
	KINGS-RANSOM M REMAX	USA 71689536					C	1
1HO11038	KINGS-RANSOM M REXFORD-ET	USA 71689555						
	KINGS-RANSOM M RICHFORD-ET	USA 71689556						
	KINGS-RANSOM M RIDDICK	USA 65827982						
7HO11033	KINGS-RANSOM M RINGO-ET	USA 65828021		C	C			
	KINGS-RANSOM M ROBBER	USA 71689533						
	KINGS-RANSOM M ROLEX-ET	USA 73556033						
	KINGS-RANSOM M ROUNDUP-ET	USA 73773428						
	KINGS-RANSOM M ROWDY-ET	USA 65828023						
	KINGS-RANSOM M RUBLE-ET	USA 65828018						
	KINGS-RANSOM M RUFUS-ET	USA 65828022		C				
	KINGS-RANSOM M RUMBLE-ET	USA 65828016						
	KINGS-RANSOM M SAMMY C-ET	840003129373942						
	KINGS-RANSOM M TAXMAN-ET	USA 73556048						
	KINGS-RANSOM M TROUBLE-ET	USA 64821555						
	KINGS-RANSOM M ZAZU-ET	USA 71689542						
	KINGS-RANSOM M ZEKE-ET	USA 71689540						
7HO10191	KINGS-RANSOM MAC HARDY	USA 64821559						
29HO11346	KINGS-RANSOM MAGNA DYNO-ET	USA 60718496						
1HO09252	KINGS-RANSOM MARION LES-ET	USA 62661942	C					1
14HO07692	KINGS-RANSOM ME RISER-ET	USA 73773429						
	KINGS-RANSOM ME RUPPLE-ET	USA 73773430						
14HO07696	KINGS-RANSOM ME SARGEANT-ET	USA 73773435						
	KINGS-RANSOM MIXER 7801-ET	USA 71689519						
	KINGS-RANSOM MM DUKE	USA 65827969						
7HO11032	KINGS-RANSOM MOM ENTREE-ET	USA 65828025						
	KINGS-RANSOM MR L EASTER	USA 71689551						
1HO08217	KINGS-RANSOM MR MIXER-ET	USA 61069885						
7HO09220	KINGS-RANSOM MR SAM RUDY-ET	USA 62030501						
14HO03801	KINGS-RANSOM MTOTO DTOTO-ET	USA 60141587						
	KINGS-RANSOM N DEKE-ET	USA 64821578						
29HO14336	KINGS-RANSOM N KEGGLER-ET	USA 64167465						1
	KINGS-RANSOM N LYNN	USA 64821574						
	KINGS-RANSOM N RHYME-ET	USA 71689524			C			
1HO06075	KINGS-RANSOM N RUDY-RED-ET	USA 17160388						
7HO11030	KINGS-RANSOM O DAKKER-ET	USA 65828007						1
	KINGS-RANSOM O DARE-ET	USA 69764566						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM O DEWARS-ET	USA 65828010						
	KINGS-RANSOM O DOPPLER	USA 72372741						
	KINGS-RANSOM O DOUBLE-ET	USA 69764634						
	KINGS-RANSOM O DRIBBLE-ET	USA 72372715						
	KINGS-RANSOM O DUMAN-ET	USA 69764628						
	KINGS-RANSOM O DUTY-ET	USA 69764626						
	KINGS-RANSOM O DWIGHT-ET	USA 69764564						
	KINGS-RANSOM O LIMEX-ET	USA 70807896			C			
	KINGS-RANSOM O LUTHOR-ET	USA 70807867						
	KINGS-RANSOM O ROCKSTAR-ET	USA 69764590						
	KINGS-RANSOM O-C DEVLON	USA 72372692						
29HO16058	KINGS-RANSOM ODESSY-ET	USA 69324697						
7HO08466	KINGS-RANSOM OMAN DEREK-ET	USA 61488622						
29HO11193	KINGS-RANSOM ORION REMY-ET	USA 60718388						
	KINGS-RANSOM P ALANON	USA 65828027						
	KINGS-RANSOM P ASPIRIN	USA 73773412						
	KINGS-RANSOM P DAKOTA-ET	USA 71689530						
7HO12119	KINGS-RANSOM P DECIMAL-ET	USA 71689531						
	KINGS-RANSOM P DESTIN-ET	USA 70807891						
183HO02170	KINGS-RANSOM P DEYO-ET	USA 70807892						
7HO12642	KINGS-RANSOM P DIRECT-ET	USA 73556040						
	KINGS-RANSOM P DIRECTION-ET	USA 73556042						
	KINGS-RANSOM P DIRECTOR-ET	USA 73556039						
	KINGS-RANSOM P DREAM	USA 70807926						
	KINGS-RANSOM P EERIE	USA 69764622	C					
	KINGS-RANSOM P EPIC	USA 65827942						
	KINGS-RANSOM P EQUATION	USA 71689570						
	KINGS-RANSOM P FACT-ET	USA 70807928		C				
	KINGS-RANSOM P FARMORE-ET	USA 71689539						
	KINGS-RANSOM P FEARLESS-ET	USA 73773431						
	KINGS-RANSOM P FEARSOME-ET	USA 73773432						
	KINGS-RANSOM P FIZZMER-ET	USA 70807854	C	C				
	KINGS-RANSOM P FLIPSTER-ET	USA 70807855						
	KINGS-RANSOM P FRIAR-ET	USA 70807880		C				
	KINGS-RANSOM P GENOMAX-ET	USA 65827989						
	KINGS-RANSOM P HAZEMAN	USA 65827948						
	KINGS-RANSOM P LABOMB-ET	USA 71689602						
	KINGS-RANSOM P LEXMORE	USA 71689569						
	KINGS-RANSOM P LINCECUM-ET	USA 69764580					C	
	KINGS-RANSOM P MAGHEE-ET	840003132356896						
1HO08879	KINGS-RANSOM P RAINMAN-ET	USA 62030415						
	KINGS-RANSOM P REVOLT-ET	USA 65828030						
7HO09030	KINGS-RANSOM P RICHMAN-ET	USA 62030417						
	KINGS-RANSOM P ROCKSTAR-ET	USA 71689600						
29HO17970	KINGS-RANSOM P ROTATE-ET	USA 73556041						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM P SAMMY-ET	USA 71689548						
	KINGS-RANSOM P SAVIOR-ET	USA 70807920						
	KINGS-RANSOM PL FABLE	USA 65827962						
1HO08992	KINGS-RANSOM PTR ENDICOT-ET	USA 62030489						
1HO07639	KINGS-RANSOM QB D DWIGHT-ET	USA 60718412						
14HO06931	KINGS-RANSOM R DAMON-ET	USA 69764604						
	KINGS-RANSOM R DAYDREAM	USA 72372716						
1HO06153	KINGS-RANSOM R DEAN	USA 17115110						
	KINGS-RANSOM R DELMAR-ET	USA 73773404						
	KINGS-RANSOM R DRAZOR-ET	USA 69764608						
	KINGS-RANSOM R EBONY-ET	USA 70807861						
	KINGS-RANSOM R FANTASMO-ET	USA 69764581		C				
	KINGS-RANSOM R FARMEX-ET	USA 69764584		C	C			
	KINGS-RANSOM R FIGARO-ET	USA 69764612			C			
	KINGS-RANSOM R LAMAR	USA 73773424						
	KINGS-RANSOM R LEXOR-ET	USA 69764629						
	KINGS-RANSOM R OLYMPIA-ET	USA 64821579						
147HO02253	KINGS-RANSOM R ORGAN-ET	USA 64821581						
	KINGS-RANSOM R ORIGINAL-ET	USA 69764591			C		C	
6HO01169	KINGS-RANSOM R RABBLE-ET	USA 69764615						
7HO11519	KINGS-RANSOM R RACKET-ET	USA 69764616			C			
	KINGS-RANSOM R RECON	USA 70807844						
	KINGS-RANSOM R RIGID-ET	USA 73556026						
7HO11518	KINGS-RANSOM R RONDO-ET	USA 69764617			C			
200HO03948	KINGS-RANSOM REALDEAL-ET	USA 71689567						
29HO17561	KINGS-RANSOM REBEL	USA 72372685						
7HO09491	KINGS-RANSOM REEVIE-ET	USA 62661909	C					
29HO14281	KINGS-RANSOM REGIS-ET	USA 64821562						
29HO14492	KINGS-RANSOM RICHTER-ET	USA 64821588					C	
1HO08824	KINGS-RANSOM RMS DESPAIR-ET	USA 62030409						
29HO11956	KINGS-RANSOM RMS EDUARDO-ET	USA 61488634						
29HO16850	KINGS-RANSOM ROWAN-ET	USA 71689562						
	KINGS-RANSOM S 10261-ET	840003129373931						
	KINGS-RANSOM S ALBIE-ET	USA 69324679						
	KINGS-RANSOM S ALIJAH-ET	USA 63210205						
	KINGS-RANSOM S ALSTON-ET	USA 69324680						
14HO07792	KINGS-RANSOM S BRAZZER-ET	840003129373936						
250HO12365	KINGS-RANSOM S DEEGAN-ET	USA 72372713						
1HO10068	KINGS-RANSOM S DELK-ET	USA 65827952					C	
	KINGS-RANSOM S DELSOM-ET	USA 74567949						
	KINGS-RANSOM S DEREK-ET	USA 65827961						
	KINGS-RANSOM S DIAGRAM-ET	USA 65827994						
	KINGS-RANSOM S DIGGER-ET	USA 65827939						
	KINGS-RANSOM S DINGER-ET	USA 65827979						
	KINGS-RANSOM S DIVERSITY-ET	USA 65827995						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KINGS-RANSOM S DIZZMER-ET	USA 71689568						
	KINGS-RANSOM S DOLLAR	840003129373940						
	KINGS-RANSOM S DRAGSTER	USA 69324698						
100HO11641	KINGS-RANSOM S DRAMA-ET	USA 72372711						
151HO00770	KINGS-RANSOM S DRIVEN P-ET	USA 72372770						
	KINGS-RANSOM S EAGER-ET	USA 70807900						
	KINGS-RANSOM S EARMARK	USA 70807929						
	KINGS-RANSOM S ELBA-ET	USA 70807860						
	KINGS-RANSOM S ELBIE	USA 70807904						
	KINGS-RANSOM S ELBOW-ET	USA 70807899						
	KINGS-RANSOM S ELECTRA-ET	USA 70807833						
	KINGS-RANSOM S EMMITT-ET	USA 70807901						
	KINGS-RANSOM S ENGAMAR-ET	USA 65827943						
	KINGS-RANSOM S EPIC	USA 69324713						
	KINGS-RANSOM S EQUATE-ET	USA 65827945						
	KINGS-RANSOM S ETTINGER-ET	USA 69324685						
	KINGS-RANSOM S EUPHORIA-ET	USA 69324715						
	KINGS-RANSOM S EURO-ET	USA 70807858						
	KINGS-RANSOM S EXCON-ET	USA 70807916						
	KINGS-RANSOM S EXTENSION-ET	840003132356893						
	KINGS-RANSOM S EZBREEZY-ET	USA 70807859						
	KINGS-RANSOM S FAXON-ET	USA 71689615		C				
7HO11231	KINGS-RANSOM S FIXER-ET	USA 69324721		C				
7HO11520	KINGS-RANSOM S FLAVOR-ET	USA 69764613						
7HO11229	KINGS-RANSOM S FOWLER-ET	USA 69764568		C				
	KINGS-RANSOM S GLARE	USA 72372698						
	KINGS-RANSOM S LACROSSE	USA 69324690						
7HO09928	KINGS-RANSOM S LARSENN-ET	USA 63210220						
	KINGS-RANSOM S LEVERAGE	USA 70807856						
7HO09929	KINGS-RANSOM S LOMBA-ET	USA 63210223						
	KINGS-RANSOM S LOTSА-ET	840003129373943						
	KINGS-RANSOM S POCKET	USA 69764556						
	KINGS-RANSOM S RADEN-ET	USA 65827933						
76HO00697	KINGS-RANSOM S RAMBLE-ET	USA 71689598						
	KINGS-RANSOM S RAMFEST-ET	USA 73773423						
14HO07661	KINGS-RANSOM S RAMMER-ET	USA 73773410						
	KINGS-RANSOM S RAPID	USA 72372729						
	KINGS-RANSOM S RAPPER-ET	USA 70807877			C			
	KINGS-RANSOM S REVIEW-ET	USA 70807919						
	KINGS-RANSOM S RHUMBA-ET	USA 69324687						
	KINGS-RANSOM S ROME-ET	USA 71689526						
	KINGS-RANSOM S RUMSFELD-ET	USA 70807878			C			
7HO11158	KINGS-RANSOM S SHARPING	USA 69324695						
	KINGS-RANSOM S ZEVEN	USA 71689550						
7HO09130	KINGS-RANSOM SAM REPLEX-ET	USA 62030453						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
1HO09204	KINGS-RANSOM SHOTLE BILL-ET	USA 62661896					C	
1HO09253	KINGS-RANSOM SHOTLE FRED-ET	USA 62661903					C	
	KINGS-RANSOM SJ GIMLET-ET	USA 65827935				C		
29HO14595	KINGS-RANSOM SJ GRAPHIC-ET	USA 65827941				C		
7HO08729	KINGS-RANSOM SOSA DARE	USA 61488663						
7HO08826	KINGS-RANSOM SOSA RUPERT-ET	USA 62030407						
7HO08728	KINGS-RANSOM SPTR DEPUTY-ET	USA 61488664						1
14HO07754	KINGS-RANSOM SSHOT FIRM-ET	840003126636829						
	KINGS-RANSOM T CARNIVAL-ET	USA 73556034		C				
	KINGS-RANSOM T CINDER-ET	USA 72944972						
14HO07564	KINGS-RANSOM T COMBINE-ET	USA 73556005		C				
	KINGS-RANSOM T D-FORCE	USA 72944971		C				
	KINGS-RANSOM T DELERIOUS-ET	USA 72372742		C				
7HO08361	KINGS-RANSOM T DOMINGO-ET	USA 61488588						
	KINGS-RANSOM T DORSON-ET	USA 72372744		C				
	KINGS-RANSOM T EMBLEM-ET	USA 69764592					C	
1HO09565	KINGS-RANSOM T HARDSHOT-ET	USA 63210202						
7HO09851	KINGS-RANSOM T HARDTAKE-ET	USA 63210204						
	KINGS-RANSOM T LACROSSE	USA 74193760						
	KINGS-RANSOM T RENKER	USA 63210177						
14HO07722	KINGS-RANSOM T RESOLUTE	USA 74193759						
1HO07949	KINGS-RANSOM TM DIVA CRI-ET	USA 61376268						
	KINGS-RANSOM TOM BRADY-ET	USA 64167454						
1HO08703	KINGS-RANSOM TRDWAY ROSS-ET	USA 61488655						
1HO06425	KINGS-RANSOM W DENNY-ET	USA 121881645						
29HO09740	KINGS-RANSOM W DRAMA-ET	USA 121881618						
	KINGS-RANSOM W DRIVER-ET	USA 72372759						1
	KINGS-RANSOM W EARL	USA 70807839						
	KINGS-RANSOM W PANACHE-TW	USA 70807903			C			
	KINGS-RANSOM W PETER-TW	USA 70807902					C	
11HO08231	KINGS-RANSOM WARRANT	USA 60718406						
29HO13521	KINGS-RANSOM WILEY-ET	USA 62661897					C	
7HO08447	KINGS-RANSOM WIZARD DYNO	USA 61488623						
1HO08523	KINGS-RANSOM WIZARD RONNIE	USA 61488617						
1HO08521	KINGS-RANSOM WZRD DANGER-ET	USA 61488625						
	KINGS-RANSOM Y AXE	USA 70807897						
	KINGS-RANSOM Y DREMEL-ET	USA 74193754						
	KINGS-RANSOM Y GLOMAX-ET	USA 70807894						3
	KINGS-RANSOM Y GLOVE-ET	USA 71689547						
	KINGS-RANSOM Y GREG-ET	USA 71689527						3
	KINGS-RANSOM Y RINGER-ET	USA 70807889						
	KINGS-RANSOM Y RIPP-ET	USA 70807888						
	KINGS-RANSOM Y RIPPER-ET	USA 70067723						
	KINGS-RANSOM Y ROGER-ET	USA 70807884						
	KINGS-RANSOM Y RUBIK	USA 71689549						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
29HO17969	KINGS-RANSOM ZANE	USA 73773402						
	KINGSMILL ATWD ELECTRIC-ET	USA 141199359						
29HO14238	KINGSMILL BUCKEYE RASHAWN	USA 63825274					C	
147HO01196	KINGSMILL CANYON AMBUSH-ET	USA 137047145						
	KINGSMILL COLT 1137-RED-ET	USA 70560343						
	KINGSMILL COLTP 1102-RED-ET	USA 72392275						
94HO14451	KINGSMILL GDWYN ASTEROID-ET	USA 63016175						
	KINGSMILL GEMINI	USA 63825272						1
	KINGSMILL JEEVES GRECO-ET	USA 66605644						1
	KINGSMILL LAURIN GRIFFIN-ET	USA 66605304						
7HO10957	KINGSMILL MILLION GMAIL-ET	USA 66605618						
7HO09253	KINGSMILL MR SAM GABRIEL	USA 137242540						
94HO00870	KINGSMILL RAPIDFIRE-RED-ET	USA 138222165						1
	KINGSMILL SHAMROCK 20662-ET	USA 72958179						
	KINGSMILL TIME GIBRALTER-ET	USA 69551496						1
	KINGSMILL TIME SHANIA-ET	USA 68776139						
	KINGSMILL TRAMILDA BLOCKER	USA 140850521						
	KINGSMILLAS BM ELKSNOW 1076	USA 72392249						
	KINGSMILLAS COLT LOMAN 1052	USA 72392225						
	KINGSMILLAS ERNHRDT ED 1060	USA 72392233						
	KINGSMILLAS GLDC MISTO 1072	USA 72392245						
	KINGSMILLAS HDLINER 1119-ET	USA 72392292						
	KINGSMILLAS HERO MIME 1078	USA 72392251						
	KINGSMILLAS LTHIUM BIN 1128	USA 72392301						
	KINGSMILLAS MCTCHN PAL 1141	USA 72392314						
	KINGSMILLAS MCUTCHN PI 1127	USA 72392300						
	KINGSMILLAS PRED PLARA 1073	USA 72392246					C	
	KINGSMILLAS S KRANK 1056-ET	USA 72392229						
	KINGSMILLAS SHAN CHIP 1134	USA 72392307	C					
	KINGSMILLAS SPR CAL 1059-ET	USA 72392232						
	KINGSMILLAS SPRSRE CHAR 107	USA 72392244						
	KINGSMILLAS SS DOCO 1081-ET	USA 72392254						
	KINGSMILLAS SSIRE DEWY 1145	USA 72392318						
	KINGSMILLAS SUPSRE GIL 1126	USA 72392299						1
	KINGSMILLDCF CONVERSE	USA 66605536						
	KINGSMILLDCF DMAIN CHRIS-ET	USA 70137207						
	KINGSMILLDCF LAMBRECHT 9-ET	USA 71123619						
	KINGSMILLDCF OBSERVER CASH	USA 70071562						
	KINGSMILLDCF SUP CONNOR-ET	USA 70137234	C					
	KINGSMILLDCF SUPER CHILL-ET	USA 70137345						
21HO01270	KINGSTEAD ROTATE SAM-ET	USA 2023184			C			
	KINGSTEAD ROYAL PONTIAC-ET	USA 139047002						
73HO00646	KINGSTEAD VALIANT TAB	CAN 369275						
	KINGSWAY CORNSEED	CAN 6857440						
	KINGSWAY COTTONSEED-ET	CAN 10537217						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KIRBYVILLE ENCINO MINTERO	USA 63938531						
7HO08844	KIRBYVILLE FREE MEL-ET	USA 61672676						
536HO00603	KIRBYVILLE LANDON	USA 72295238		C				
	KIRBYVILLE MAC MODEM-ET	USA 63938540						
	KIRBYVILLE MAC MONACO-ET	USA 63938543						
29HO14070	KIRBYVILLE MAC MOZART-ET	USA 63938542						
7HO10450	KIRBYVILLE MACAULEY-ET	USA 65711228						
	KIRBYVILLE MAGICAL-ET	USA 62478386						
29HO13038	KIRBYVILLE MAHONEY-ET	USA 61672681						
29HO13889	KIRBYVILLE MALUEY-ET	USA 63938521						
1HO10605	KIRBYVILLE MARCIN	USA 69761474						
1HO10057	KIRBYVILLE MARCO	USA 65711256						
	KIRBYVILLE MARLBORO-ET	USA 65711246						
29HO11280	KIRBYVILLE MARLON-ET	USA 60997365						1
7HO08618	KIRBYVILLE MAXWELL-ET	USA 61672668						
	KIRBYVILLE MOLEGANT	USA 71210052						
	KIRBYVILLE MORTON-ET	USA 65711227						
	KIRBYVILLE MR FEBRUARY	USA 63938555						
7HO08619	KIRBYVILLE OMAN MISTER-ET	USA 61672666			C			
	KIRBYVILLE PEABODY-ET	USA 66894004					C	
	KIRBYVILLE PERGO-ET	USA 66893983					C	
	KIRBYVILLE PIMLICO-ET	USA 66893998						
	KIRBYVILLE PRYCE	USA 65711235						
	KIRBYVILLE SHOTTLE BOBBY	USA 66893988						
7HO09396	KIRBYVILLE SHTL PHILIP-ET	USA 62478424						
14HO04636	KIRBYVILLE TEAMSTER GIN	USA 61672648						
29HO15385	KIRK ANDREWS TALENTED JACKSON	AUS H01317385						1
29HO12666	KIRKBLYTHE DEEJAY-ET	GBR 633715						
29HO12515	KIRKBLYTHE DESTINY	GBR 626061						
29HO12628	KIRKBLYTHE DREAMER-ET	GBR 630782					C	
	KIRKLEA GLOBAL-ET	CAN 6803941						
	KIRKLEA GRANDEUR	CAN 6450648						
11HO08033	KIRKLEA SIGNET-ET	CAN 8312486						
11HO11092	KISS ALTATIME IT	NLD 533095414						
100HO11069	KISST JEEVES SUNDANCE-ET	USA 66650943						
	KISST KARSTEN-ET	USA 132990792						
	KISST REDBURST 590 MARV-RED	840003013023423		C				1
	KISST WINDBRK 955 CARL-ET	840003010261040						1
	KISST WINDBROOK 955 COBY-ET	840003010261031						
11HO05525	KITZMAN ALLURE-ET	USA 123799919						
	KITZMAN DOCKER-ET	USA 50400735						
7HO07005	KITZMAN EMERSON ELECTRO-ET	USA 130972011						
	KLAGVALE AFTERMATH	CAN 7254862						
	KLASSENS ARMSTEAD MAGMA-ET	USA 66388398						
	KLASSENS ARMSTEAD MARSH-ET	USA 66388425						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KLASSENS ARMSTEAD MARV-ET	USA 66388429						
	KLASSENS ARMSTEAD MAX-ET	USA 66388405						
	KLASSIC ALTABULLPEN	USA 69831974						
11HO11424	KLASSIC ALTAODEON-ET	USA 69832046						
	KLASSIC BAD BOY-ET	USA 72443399						
29HO11750	KLASSIC BANDARAS-ET	USA 61143485						
	KLASSIC BARBASOL	USA 72443321						
	KLASSIC BARBOSA-ET	USA 66367765						1
	KLASSIC BARCLAY-ET	USA 66367767					C	
	KLASSIC BARNEY-ET	USA 69832012			C		C	
	KLASSIC BARTON-ET	USA 69831958					C	
	KLASSIC BATTALION-ET	USA 72443322						
	KLASSIC BATTLEFIELD-ET	USA 72443328						
151HO00684	KLASSIC BATTLESHIP-ET	USA 72443326						
	KLASSIC BERKLEY-ET	USA 66367773						
	KLASSIC BERTRUM-ET	USA 72443375						
7HO10295	KLASSIC BIG MAC-ET	USA 61143534						
7HO10052	KLASSIC BIG TIME-ET	USA 61143535						
200HO00551	KLASSIC BIG WHEEL-ET	USA 61143555						
	KLASSIC BIGBOY-ET	USA 72443394						
200HO05904	KLASSIC BILLBOARD	USA 61143548					C	
	KLASSIC BILLY BOB-ET	840003123600761						
	KLASSIC BILLY DEAN	USA 72443381					C	
	KLASSIC BILLY DEE-ET	USA 72443370					C	
	KLASSIC BILLY JOEL-ET	USA 72443369					C	
	KLASSIC BILLY RAY-ET	USA 72443371					C	
	KLASSIC BINFORD-ET	USA 69831987						
7HO10877	KLASSIC BLACKHAWK-ET	USA 66367748					C	
29HO14540	KLASSIC BLACKJACK-ET	USA 66367743						
	KLASSIC BLADE-ET	USA 72443319					C	
	KLASSIC BLAINE-ET	USA 69832040					C	
	KLASSIC BLAIR-ET	USA 69832039						
200HO06287	KLASSIC BLOG-ET	USA 66367768					C	
151HO00617	KLASSIC BOGOTA	USA 69831965					C	
	KLASSIC BOOMERANG-ET	USA 69832006					C	
	KLASSIC BOY O BOY-ET	USA 72443398						
	KLASSIC BRADLEY-ET	USA 69831964						
	KLASSIC BRANSON-ET	USA 69831982						
	KLASSIC BRAVADO	USA 66367778					C	
	KLASSIC BRIGADE-ET	USA 72443318					C	
7HO11090	KLASSIC BRINKLEY-ET	USA 66367776					C	
29HO11856	KLASSIC BRONCO	USA 61143491						
	KLASSIC BROTEN-ET	USA 69831960						
	KLASSIC BRUSKI CRI-ET	840003011816208					C	
7HO11457	KLASSIC BRYTON-ET	USA 69831961					C	

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KLASSIC BUCKSHOT-ET	USA 69832036			C			
	KLASSIC BUFORD-ET	USA 69831986						
	KLASSIC CARLOS-ET	USA 69831994						
	KLASSIC CHEVROLET-ET	USA 72443404						
	KLASSIC CLICKER-ET	USA 69831989						
	KLASSIC COMMANDO	USA 72443401						
29HO18081	KLASSIC COMRADE-ET	USA 72443389						
	KLASSIC CONDOR-ET	USA 72443384						
	KLASSIC CONGER-ET	USA 72443383						
7HO12772	KLASSIC CONQUER-ET	USA 72443388						
	KLASSIC CONRAD-ET	USA 72443391						
	KLASSIC CONTOUR-ET	USA 72443386						
	KLASSIC DOMAIN 303-ET	USA 71141821					C	
	KLASSIC DOMAIN 304-ET	USA 71141822					C	
	KLASSIC JO COOL-ET	USA 72443396						
97HO08856	KLASSIC LABRON-ET	USA 61143517			C			
	KLASSIC LIPTON-ET	USA 61143556	C					
	KLASSIC MARIO	USA 66367780						
1HO05045	KLASSIC MERRILL LYNCH-ET	USA 2266677						
	KLASSIC MOONSHINE-ET	USA 66367757						
	KLASSIC MR BRADY-ET	USA 69831962						
	KLASSIC MR BULLSEYE-ET	USA 69831969						
	KLASSIC O-STYLE BENNY-ET	USA 69831998					C	
1HO07683	KLASSIC SPENCER-ET	USA 61143472						
	KLASSY-K CROWN-P ANVIL-RED	840003128518934						
1HO08043	KLATTVIEW PATTWOOD	USA 121326317						
200HO01698	KLAYLAND WINSTON-ET	CAN 9351591						
1HO04957	KLEIN-LINE SPENCER JACOB-ET	USA 2268788						
	KLEINSVIEW BLTN CLAYTON-ET	USA 140222368				C		
	KLEINSVIEW CANDIDATE-ET	USA 136730646						
1HO09592	KLEINSVIEW CHARLESTON-ET	USA 138524614				C		
1HO05907	KLEINSVIEW CNV COMMA CRI-ET	USA 60044821				C		
	KLEINSVIEW CONCORD-ET	USA 133082940						
7HO06871	KLEINSVIEW CONVINCER CHASE	USA 129540616						
29HO10420	KLEINSVIEW CONVNCER CHET-ET	USA 129610968				C		
200HO09113	KLEINSVIEW CROCKET-ET	USA 134873789				C		
	KLEINSVIEW JEEVES CEDRIC-ET	USA 140626078						
	KLEINSVIEW JEEVES CESAR-ET	USA 140626069						
	KLEINSVIEW JEEVES CLIFF-ET	USA 140626050						
7HO09963	KLEINSVIEW MAC CHISHOLM-ET	USA 138965730				C		
14HO05245	KLEINSVIEW MMAX CORNWELL-ET	USA 136801092						
7HO08432	KLEINSVIEW MORTY CANNON-ET	USA 135021073	C					
7HO08410	KLEINSVIEW ROY CASHMERE-ET	USA 135318614				C		
	KLEINSVIEW RUSSEL COLTRANE	USA 140623002						
	KLEINSVIEW SUPER CEDRIC-ET	USA 140924372						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KLEINSVIEW SUPER CYRUS-ET	USA 140924363						
29HO11258	KLEVERLAND CAMRY-ET	USA 133475979						
1HO07691	KLEVERLAND CAPRI COBRA-ET	USA 133475951						
29HO13492	KLEVERLAND CASBUR-ET	USA 137398447						
29HO13114	KLEVERLAND CLASSY-ET	USA 136487128						1
1HO09151	KLEVERLAND JOTTLE-ET	USA 137398410						
1HO08255	KLEVERLAND MACHO JABMAN-TW	USA 134315225						
1HO07690	KLEVERLAND SATURN JUSTIN-ET	USA 133098176						
	KLINEDELL JET STR-PIMP-ET	USA 139140237						
29HO14549	KLINEDELL PITCH	USA 139533994						
	KLINEDELL ROSS PATCH-ET	USA 71067360			C			
	KLINEDELL SBSN PATRIARCH-ET	USA 71067364						
	KLINEDELL SHAMPOO PERT-ET	USA 140493973						
	KLINEDELL SHAMPOO PETEY-ET	USA 140493982						
	KLINEDELL SHMPOO PANTENE-ET	USA 140493964						
	KLINEDELL SUDAN PIERCE	USA 71067396						
	KLINEDELL SUPER PATRICK	USA 140882636						
	KLINEDELL TANGO EASY	USA 73298223						
	KLM PEDESTINE ERNEST-ET	USA 73328859						
	KLM SATCHEL RONNI-RED-ET	USA 73328852						
	KLM WILLPOWER ECONO-ET	USA 73539025	C					
	KLM WILLPOWER ELDER-ET	USA 73539024	C					
7HO06196	KLODTS LEAD CARI BEN	USA 18038940						
200HO09441	KLOVER-HILL DELEGATE-ET	USA 135707902						
200HO05377	KLOVER-HILL DINO	USA 136368706						
	KLOVER-HILL HACKETT-ET	USA 136377506						
200HO05378	KLOVER-HILL JAVA-ET	USA 136314985						
200HO05044	KLOVER-HILL MANNISH-ET	USA 133756526	C					
	KLOVER-HILL MEGALITH-ET	USA 136731414						
1HO07397	KLOVER-HILL ORION TORY-ET	USA 132331902						
7HO07463	KLUMBS DURHAM PONTIAC	USA 131348369						
7HO08409	KLUMBS MACHO SLICK WILLY-ET	USA 135156386						
140HO02113	KM&EW GOLDWYN SUGAR RAE-ET	USA 63427619						
23HO00596	KNOB-LICK FAVOR	USA 2277750						
7HO00127	KNOB-LICK GO	USA 1536047						
21HO04002	KNOB-LICK PACKER-ET	USA 2107866						
14HO02758	KNOLL-DELL BW BINGO-ET	USA 2287497						
29HO12346	KNOWLESMERE JAKE	GBR 615833						
1HO06228	KNOXLAND ANDREW 52 IVORY-TW	USA 17223105						
1HO06026	KNOXLAND ANDREW M HABIT	USA 17012442						
1HO06025	KNOXLAND BALLOT 52 HOTSHOT	USA 2296481						
1HO03967	KNOXLAND BALLOT K HOLSTEIN	USA 2299747						
8HO01868	KNOXLAND BELL HUMBUG	USA 1988028						
1HO03519	KNOXLAND BELLMAN E EMBER	USA 2199324						
1HO04358	KNOXLAND BELLMAN G DECOR-ET	USA 2172752						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
1HO04357	KNOXLAND BELLMAN K DECOY-ET	USA 2172783						
1HO04359	KNOXLAND BM E DISCUSS-ET	USA 2175683						
1HO04361	KNOXLAND BM G DECREE-ET	USA 2175684						
1HO04672	KNOXLAND BM K ENTRY-ET	USA 2204668						
8HO02051	KNOXLAND BOVA L HAWKEYE-ET	USA 1997427						
8HO01869	KNOXLAND BOVA L HERCULES-ET	USA 2009162						
1HO06436	KNOXLAND BRIS G JANICEDAVIS	USA 125305994						
1HO06365	KNOXLAND BRISTOL C JAZZ	USA 17396857						
1HO02772	KNOXLAND BS F CARVEL-ET	USA 2136609	C					
14HO03088	KNOXLAND CARVEL M STUBBY-ET	USA 17312063						
1HO08115	KNOXLAND CASH Q JAGUAR-ET	USA 120962835						
8HO02459	KNOXLAND CLEI G ACTIVATE-ET	USA 2064459						
21HO01751	KNOXLAND CLEITS ABERRANT-ET	USA 2071067						
1HO02054	KNOXLAND CLEITUS BALLOT-ET	USA 2111643						
21HO01854	KNOXLAND CLEITUS E ADISON	USA 2083766						
8HO02526	KNOXLAND CLEITUS M ALOMO	USA 2079364						
1HO06123	KNOXLAND HUNTER M HUG-ET	USA 17009789						
1HO06122	KNOXLAND LABELLE C IDEA-ET	USA 17042294						
14HO03294	KNOXLAND MANFRED 52 ALMO-ET	USA 122067479						
1HO06543	KNOXLAND MANFRED 52 AMAZON	USA 125223634						
1HO06461	KNOXLAND MANFRED 52 ARLO-ET	USA 122067394						
8HO02793	KNOXLAND MICHAEL K CHEER-ET	USA 2141153			C			
1HO04173	KNOXLAND MICHEAL K CLIMB-ET	USA 2141152			C			
1HO06229	KNOXLAND MO 52 JOURNEY	USA 17312057						
1HO06437	KNOXLAND RAPTURE G JACQUE	USA 122067246						
21HO02150	KNOXLAND ROTATE IACOCCA-ET	USA 2008494						
21HO01221	KNOXLAND ROTATE M IGNITER-ET	USA 2011283			C			
	KNS ALTAMARIVO-ET	DEU 353764113				C		1
198HO02012	KNS BRASILEIRO-ET	DEU 357640631						1
151HO04044	KNS MILANO	DEU 354563004					C	
200HO07745	KNS REMINDER-ET	DEU 355203363						1
151HO04043	KNS SACRAMENTO	DEU 354563015					C	
151HO04042	KNS SHANGHAI	DEU 354563017						
151HO04041	KNS SINGAPUR	DEU 354563034						
151HO00601	KNS SOMANI-ET	DEU 354563013						
200HO02078	KNUTSONS NASA-ET	USA 62574621						
29HO13682	KNUTSONS TOYSTORY FURY	USA 138309792						
	KOEBELE A-M MONGUL-RED-ET	USA 143350655						1
	KOEBELE A-M MONROE-ET	USA 143064332						
	KOEBELE A-M MONTEGO-RED-ET	USA 142858794						
1HO09974	KOEBELE BOLIV LORING CRI-ET	USA 64541678						
	KOEBELE DSS JAX-RED-ET	USA 143350664						
	KOEBELE E-S JETTER	USA 143109503						
7HO08405	KOEBELE H H DALLAS-ET	USA 135023084						
	KOEBELE O-H MO-JACK-ET	USA 142702945			C			1

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KOEBELE O-H MOJO-ET	USA 142702936			C			
7HO09658	KOEBELE P-S LENO-ET	USA 137941289					C	
29HO13548	KOEBELE P-S SANTA-FE-ET	USA 137273074						
	KOEBELE S-P MONTANA-ET	USA 143064341						
	KOEBELE S-P MONTY-ET	USA 143064350			C			
	KOEBELE S-S MOHAWK-ET	USA 142900576						1
	KOENEN ABERLIN 10061-ET	USA 70447943						
	KOENEN ABERLIN 10062-ET	USA 70447944						
	KOENEN ALTAFIXER-TW	USA 69701917						
	KOENEN EXPLODE 10067	USA 70447949						
	KOENEN GOLD CHIP 10068	USA 70447950						
	KOENEN LOOK 10056-ET	USA 70447938						
	KOENEN LOOK 10058-ET	USA 70447940						
	KOENEN OBSERVER 10039-ET	USA 69701922						
	KOENEN OBSERVER 10040-ET	USA 69701923						
	KOENEN OBSERVER 10041-ET	USA 69701924						1
	KOENEN OBSERVER 10044-ET	USA 69701927						1
	KOENEN ROBUST 10059-ET	USA 70447941						
	KOENEN SHAMROCK 10060-ET	USA 70447942						
	KOENEN SUPER 10025	USA 66000291						
	KOENEN TIME 10038	USA 69701921						
	KOENEN TIME 10043	USA 69701926						
	KOENEN-DK BALLAST-ET	840003010607245						
	KOENEN-DK RAE MAN-P-RED-ET	USA 71702792						
	KOENEN-DK WILLPWR BRODIE-ET	840003126252520	C					
29HO09775	KOEPKE ANALYZE	USA 120904778	C					
11HO05137	KOEPKE CONTROL-ET	USA 17177542	C					
	KOEPKE DOTSON BRETHERN-TW	USA 64416834						
29HO13177	KOEPKE FORTUNATO	USA 61880716						
14HO04272	KOEPKE SABRE ULYSSES	USA 61064455						
11HO11007	KOEPON ALTAAMON	NLD 570574479						
11HO10900	KOEPON ALTABACALL	NLD 716072429			C			
11HO10933	KOEPON ALTABENTNER	NLD 716072157		C				
	KOEPON ALTABERTIE	NLD 570574099						
11HO11048	KOEPON ALTACHUBBY	NLD 570574208						
11HO11141	KOEPON ALTACLASSMAN	NLD 931974953					C	
11HO11194	KOEPON ALTACLAYTON	NLD 931974542			C			
11HO11242	KOEPON ALTACLIFTON	NLD 722777934						
11HO11241	KOEPON ALTACLOONEY	NLD 722777927						
11HO10932	KOEPON ALTACONSUS	NLD 716072164						
11HO11440	KOEPON ALTACORNELL	NLD 767081320						
11HO11542	KOEPON ALTADUSTMAN	NLD 549685601						
11HO11366	KOEPON ALTAMIDO P	NLD 767081933						
11HO10481	KOEPON ALTAREGGIE	NLD 499166676	C					
11HO11511	KOEPON ALTAREVOLVER	NLD 641883561						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
11HO11292	KOEPON ALTAREYNOLDS	NLD 722777554						
11HO10544	KOEPON ALTASHOOTER	NLD 499466716					C	
	KOEPON ALTASUNNERY	NLD 570574309						
11HO10486	KOEPON ALTATINMAN	NLD 499266851						1
11HO11364	KOEPON BUITENLST ALTAREXTON	NLD 934046332						
200HO07400	KOEPON DOLCREST	NLD 498266898						1
	KOEPON FANTASTIC	NLD 499266767	C					
7HO11629	KOEPON IOTA CARPENTER-ET	840003008897624		C			C	
202HO01542	KOEPON OASIS	NLD 641884014						
7HO09698	KOEPON WINNER	NLD 480163776						
200HO00453	KOEPON-I SHOTPUT	CAN 7789679						
	KOHL-BIG-DOG DAMARIS 7965	840003132010552						
	KOHL-BIG-DOG DEFEND 7741-ET	USA 73845330						
	KOHL-BIG-DOG DEFEND 7759-ET	USA 73845348						
	KOHL-BIG-DOG MONTRO 7782-ET	USA 73845371			C			
	KOHL-BIG-DOG WICKED 7991-ET	840003132010578						
	KOKOSINGS DUNKIRK CRI-ET	USA 65801556			C			
	KOKOSINGS EARNIT DASH-ET	USA 66486050						
	KOKOSINGS MIDNIGHT QUINCY	USA 72795300						
7HO08967	KOKOSINGS PEGASUS	USA 136551915						
11HO06903	KOLHORNER ARCHI	NLD 264152798						
29HO09976	KOLHORNER ELVIS	NLD 234851733						
	KONIGS TALENT BENTAL AA-RED	CHE120034055400						3
1HO09456	KONTUR-MAAL MARION SONIC	USA 63349750						
14HO05195	KONTUR-MAAL MARMAX SALEM-ET	USA 62010797						
	KONTUR-MAAL MILION SHAMU-ET	840003004014323		C				
	KONTUR-MAAL SHOT SPARTA-ET	USA 63349768					C	1
73HO01811	KORTUS PROFESSOR	USA 2138436	C					
	KORTUS PROSPER	USA 2171927						
506HO00182	KOSIER ROY-DUN MR T	USA 139885729						
1HO05838	KOSTERLAND GLD SMOKE CRI-ET	USA 122986259						
7HO07999	KOZDALE WAGGLE-ET	USA 134479592						
	KP-ACK AIRNET 297	840003010285769						
	KP-ACK AIRNET ADRIAN-ET	840003010285747						
	KP-ACK ALAN MITCH-ET	USA 69077152						
11HO11774	KP-ACK ALTADRAGSTER-ET	840003010086780	C					
11HO11419	KP-ACK ALTALEGAL-ET	840003010979794						
11HO11551	KP-ACK ALTAMUCHOS-ET	840003010086718						
11HO11461	KP-ACK ALTAMURDOCK-ET	840003010086674						
11HO11609	KP-ACK ALTASOUSA	840003010086728						
	KP-ACK ARM THEIL-ET	USA 70508115						
	KP-ACK ARMITAGE 282-ET	840003010285754						
	KP-ACK ARMITAGE 285-ET	840003010285757						
	KP-ACK ARMITAGE PRIMUS-ET	USA 70508114						
	KP-ACK BAMA 338-RED	840003010979810						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KP-ACK BAMA 6690-RED	840003010086690						
	KP-ACK BOOKEM 228	USA 70508094						
	KP-ACK BOWSER CAIN	USA 69077197						
	KP-ACK BOXER MULDER	USA 70508070						
	KP-ACK CHAP MUNDY-ET	840003010285760						
	KP-ACK CHIP CARLIN-ET	840003010285731						
	KP-ACK CHIP SO TALL-ET	840003010285742						
	KP-ACK DAKKAR 286-ET	840003010285758						1
	KP-ACK DAKKAR DILLON-ET	840003010285724						
	KP-ACK DAKKAR DODIN-ET	840003010285751						1
	KP-ACK DAKKER DIMAGGIO-ET	USA 70508109						
	KP-ACK DAY 6688	840003010086688						
	KP-ACK DESTINED 6717-RED-ET	840003010086717						
	KP-ACK DIAMOND 6701-ET	840003010086701			C		C	
	KP-ACK DIAMOND 6712-ET	840003010086712					C	
	KP-ACK DIAMOND 6713	840003010086713					C	
	KP-ACK DIAMOND 6714-ET	840003010086714			C		C	
	KP-ACK DOMAIN DRONE	USA 70508099						
	KP-ACK DORCY CHUCK-ET	USA 70508089						
	KP-ACK DORCY KEVIN-ET	USA 70508087						
	KP-ACK DORCY LOOKSALOT-ET	USA 70508086						
	KP-ACK EPIC 6673	840003010086673						
	KP-ACK GREENWAY 6749-ET	840003010086749						
	KP-ACK HALO 6750	840003010086750						
	KP-ACK HALOGEN 6731	840003010086731						
	KP-ACK HUNTER 340-ET	840003010979812						
	KP-ACK JABIR 6721-ET	840003010086721						
	KP-ACK JABIR 6736-ET	840003010086736						
	KP-ACK JACEY 6720-ET	840003010086720						
	KP-ACK JACEY 6722-ET	840003010086722						
	KP-ACK JACEY 6737	840003010086737						
	KP-ACK JIVES THRONE-TW	840003010285730						
	KP-ACK JO SUPER 6776-ET	840003010086776						
	KP-ACK LARS-ET	USA 64553522						
	KP-ACK LAYNE 6683-ET	840003010086683						
	KP-ACK LAYNE 6689-ET	840003010086689						
	KP-ACK LAYNE 6703-ET	840003010086703						
	KP-ACK LAYNE PATCHES-ET	840003010086680						
7HO10923	KP-ACK LEDLEY-ET	USA 64553521						
	KP-ACK LEON-ET	USA 64553520						
	KP-ACK LITHIUM 6676-ET	840003010086676						
	KP-ACK LITHIUM 6677-ET	840003010086677						
	KP-ACK LITHIUM 6679-ET	840003010086679						
	KP-ACK LITHIUM 6685	840003010086685						
	KP-ACK LITHIUM 6693-ET	840003010086693						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KP-ACK LITHIUM 6696-ET	840003010086696						
	KP-ACK LITHIUM 6697-ET	840003010086697						
	KP-ACK LITTLETON 6769-ET	840003010086769						
	KP-ACK MASSEY 6684	840003010086684						
	KP-ACK MAURICE 6678-ET	840003010086678						
	KP-ACK MAURICE 6686-ET	840003010086686						
	KP-ACK MELVIN	USA 69077156		C				
	KP-ACK METEOR MAHONEY-ET	USA 69077199						
	KP-ACK METEOR MATIC-ET	USA 70508072						
	KP-ACK METEOR MAUER-ET	USA 69077189						
1HO10629	KP-ACK METEOR MENDOZA-ET	USA 69077190						
	KP-ACK METEOR MESSER-ET	USA 69077201						
	KP-ACK MOGUL 313	840003010979785						
	KP-ACK MOGUL 337-ET	840003010979809						
	KP-ACK MOGUL 6694	840003010086694						
	KP-ACK MOGUL 6695	840003010086695						
	KP-ACK MOGUL 6704	840003010086704						
7HO10997	KP-ACK MONTE-ET	USA 69077157						
	KP-ACK PERRY 301-ET	840003010979773						
	KP-ACK PERRY 303-ET	840003010979775						
	KP-ACK PERRY 310-ET	840003010979782						
	KP-ACK PERRY 323-ET	840003010979795						
	KP-ACK PRED 6711-ET	840003010086711						
	KP-ACK PREDESTINE 6709-ET	840003010086709						
	KP-ACK REDEEM 263-ET	840003010285735						
	KP-ACK REDEEM CAMERON-TW	USA 70508074						
	KP-ACK REDEEM CAYDEN-TW	USA 70508075						
	KP-ACK REDEEM MOFO-ET	USA 70508110						
	KP-ACK REDEEM MOJAM-ET	USA 70508105						
	KP-ACK ROBUST LEO-ET	USA 69077181						
	KP-ACK ROBUST LIGHTSOUT-ET	USA 69077186						
	KP-ACK ROCK 315	840003010979787						
	KP-ACK ROCK CASTELLO	USA 70508106						
	KP-ACK SS 6700-ET	840003010086700						
	KP-ACK SS 6702-ET	840003010086702						
	KP-ACK SS 6705-ET	840003010086705						
	KP-ACK SS 6707-ET	840003010086707						
	KP-ACK SUPER SLAM	USA 69077173						
	KP-ACK TANGO 6730-TW	840003010086730						
	KP-ACK YANO 295-ET	840003010285767						
	KP-ACK YANO 296-ET	840003010285768						
	KP-ACK YANO 300	840003010285772						
	KP-ACK YANO 302-ET	840003010979774						
	KP-ACK YANO 305-ET	840003010979777						
	KRALL-VIEW IOTA JETSON-ET	USA 55858072						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KRALL-VIEW JOSE JERRY	USA 55483022						
29HO14646	KRALL-VIEW MEGA PASTOR-ET	USA 55483032						
29HO14752	KRALL-VIEW MEGA PRESTO-ET	USA 55483056						
	KRALL-VIEW METEOR JAY-ET	USA 55858080						
	KRALL-VIEW MILLION ELI	USA 55483054		C				
	KRALL-VIEW MO-JO-ET	USA 59014714						
	KRALL-VIEW MOGUL JERICHO-ET	USA 59014715						
	KRALL-VIEW ONWARD ESAU-ET	USA 55483059						
1HO10856	KRALL-VIEW RBST JAYDEN-TW	USA 55858090						
	KRALL-VIEW SUDN DOMIN8-TW	USA 58464297						
	KRALL-VIEW SUDN DOMINO-TW	USA 58464296						
	KRALL-VIEW Z JUMPSTART-ET	USA 59014778						
	KRANZ-ELM BIRLEY-ET	USA 17132621						
1HO05346	KRANZ-ELM BUNKER-ET	USA 17200937						
1HO05338	KRANZ-ELM BURKE-ET	USA 17200935						
200HO01277	KRANZDALE BENRUD-ET	USA 125404497						
7HO06176	KRANZDALE BETHOLT-ET	USA 18031315						
29HO10442	KRANZDALE LINDLEY	USA 129449111	C					
11HO09678	KRBYVL ALTAROCKO-ET	USA 62478378						
7HO08930	KRBYVL BOLIVER MUSTY-ET	USA 62478375						
1HO06521	KRBYVL MEPRON-ET	USA 126426665						
1HO06363	KRBYVL MUFASA-ET	USA 121334871						
11HO04721	KREGNOL JABOT SEAGRAM-ET	USA 2294098						
1HO05093	KREGNOL JABOT SHAMPOO-ET	USA 2294097						
11HO04712	KREGNOL MANDEL CEVIS-ET	USA 2294096						
1HO05302	KREGNOL R-C HD-ET	USA 17074183						
1HO03924	KREGNOL REPLICA-ET	USA 2279506						
11HO04515	KREGNOL TOP LUKE-ET	USA 2267089						
	KRESS-HILL AB SAVIOR-RED-ET	USA 72916178						
	KRESS-HILL AB SHIVER-RED-ET	USA 72916177						
	KRESS-HILL SLACKER-RED-ET	USA 72916182						
21HO01747	KREST-VIEW ROTATE SPUNKER	USA 2075682						
	KRISMA VICTORIA JAGGER	ITA 20500231108		C				
	KRONHILL BOGART MARTIN-ET	USA 69548821						
	KRONHILL NIAGRA MALIBU-ET	USA 69548834						3
7HO08111	KRONHILL ROY BODACIOUS-ET	USA 133843561						
200HO10165	KROWN DARMOUTH-ET	CAN 11811114						1
200HO02855	KROWN DECIBLE-ET	CAN 11219848						1
200HO00604	KROWN SIXPACK-ET	CAN 9996114						1
250HO10919	KROWN SONIC-ET	CAN 9996093						1
200HO00603	KROWN STETSON-ET	CAN 9996095						
11HO10075	KRULL ALTAEVERWILD	USA 138348539						
7HO08675	KRULL BWM EVON	USA 135617423						
11HO09247	KRULL EDEN-ET	USA 135710126						
	KRULL ENCREDIBLE-ET	USA 62702454					C	

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
11HO08517	KRULL ENERGIZER-ET	USA 133725823						
29HO16021	KRULL ENTICE	USA 69260211						1
7HO09793	KRULL EXCLUSIVE-ET	USA 135710199	C					
200HO02143	KRULL EXPLORE-ET	USA 62702434						1
	KRULL JEEVES DOW	USA 69260130						
	KRULL JEEVES ELEVATE	USA 65794023						
	KRULL JEEVES EVOLVER	USA 69260209	C					
	KRULL LAWNBOY ELANTRO-RED	USA 65794027						
	KRULL MILLION DOLLAR-ET	USA 65794034		C	C			
	KRULL MITEY ELDORADO-P-TW	USA 141089661						
151HO00570	KRULL SHOTTLE DREAMDATE-ET	USA 69260142						
7HO09430	KRULL SHOTTLE EATON-ET	USA 62702444	C					
7HO09274	KRULL SHOTTLE ENCREASE-ET	USA 62702436						
29HO11601	KRULLCREST AMOS-ET	USA 134431680						
	KRULLCREST BRONO 4615-ET	840003123475754						
	KRULLCREST HALOGEN 342-ET	USA 73455129						
	KRULLCREST HALOGEN 343-ET	USA 73455130						
	KRULLCREST HALOGEN CAM-ET	USA 74474216						
1HO07238	KRULLCREST HERSHL TANNER-ET	USA 132065768						
	KRULLCREST LAMBRECHT CON-ET	USA 71651050	C					
1HO08802	KRULLCREST QUEST-ET	USA 135872231						
	KRULLCREST SDG CHEV Z28-ET	USA 73351023						
	KRULLCREST SUPER 4670-ET	840003123475809						
1HO05086	KRULLCREST WOODSTOCK-ET	USA 2289002						
11HO08985	KRULLCREST-H MYSTICAL-ET	USA 135652734						
200HO05750	KRULLCREST-H WOLFGANG-ET	USA 137975565						
21HO01709	KT-H ROTARIAN	USA 2048821			C			
	KUL-WAVE 5G ASTROTURF-ET	840003129209551						
	KUL-WAVE ABERCROMBIE-ET	USA 71689503						
14HO05690	KUL-WAVE FBI AGENT-ET	USA 62250111						
	KUL-WAVE GRAFEETI ROCKET-ET	USA 72586775						1
	KUL-WAVE GRAFETI ATLAS-ET	USA 71689510						
	KUL-WAVE LA-BRN ROCKSTAR-ET	USA 73404179						
	KUL-WAVE LA-BRON ROCKET-ET	USA 73404181						
	KUL-WAVE M-O-M AMADEUS-ET	USA 66770489						
	KUL-WAVE M-O-M ARIOSO-ET	USA 66770491						
	KUL-WAVE MACK EDWARD-ET	USA 73404164						
	KUL-WAVE MACK ERAGON-ET	USA 73404162						
	KUL-WAVE MACK ERNIE-ET	USA 73404161						
	KUL-WAVE O-COSMO ACE-ET	USA 71689508						
	KUL-WAVE PLATINUM ARCHER-ET	USA 72586776						
	KUL-WAVE PLATNUM AWESOME-ET	USA 72586778						
	KUL-WAVE TABLE ASTRO	USA 72586810						
	KULP-BROS LES OF SABOFARM	USA 135704682						
	KULP-DALE AG ALASKA-RED-ET	840003127359443						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KULP-DALE AG ALBERT-RED-ET	840003131117629						
7HO12844	KULP-DALE AG DR AXEL-RED-ET	840003127359450						
7HO09711	KULP-DALE CLS LIMEY-RED-ET	USA 62887129						
1HO09560	KULP-DALE CLS LYLE-RED-ET	USA 62887127						
	KULP-DALE D ROWDY-P-RED-ET	USA 72234126						
	KULP-DALE EARSER RABID P-ET	840003127359410			C			
	KULP-DALE EGARRITH-P-RED-ET	USA 72234109						
	KULP-DALE ERASER MARK P-ET	840003131117637						
	KULP-DALE ERASER ROCKY P	840003127359413						
106HO03109	KULP-DALE GOLDEN PP-RED-ET	USA 70805600						
	KULP-DALE GOLDEN RAY P-ET	840003013444607						
	KULP-DALE GOLDMAN-ET	USA 72234130						
	KULP-DALE HHDW ROCK-RED-ET	USA 68789718						
	KULP-DALE KANU SAMUEL-P	840003124771920			C			
	KULP-DALE LONG SAM P-RED-ET	840003013444644						
	KULP-DALE LONG SENTRY P-ET	840003013444645						
	KULP-DALE MAGNUM PP-ET	USA 71639242						
	KULP-DALE OS REVOLT-ET	840003013444627			C			
	KULP-DALE OS ROCKY P-ET	840003013444637						
	KULP-DALE OVER MICKEY P-ET	840003124771952						
	KULP-DALE OVER MIKE P-ET	840003124771950			C			
	KULP-DALE PT SERVPRO-RED-ET	840003131117668						
	KULP-DALE SATIN GOLD-RED-ET	USA 72234134						1
	KULP-DALE SOS GIFT-P-RED-ET	840003013444594						
	KULP-DALE SOS GOLD-P-RED-ET	840003013444593						
	KULP-DALE SOS GOLDMAN-P-ET	840003013444595						
	KULP-DALE SOS SHARK-P-ET	USA 72234108			C			
	KULP-DALE TRANS RANGER P-ET	USA 72234101						
	KULP-DALE TRANSAMERICA-ET	USA 71639248						
	KULP-GALTON KINGBY 21747-ET	840003129136303						
	KULP-GALTON LG ABE P-RED-ET	840003124680294					C	
	KULP-GALTON LONG ALEC-ET	840003124680227						
	KULP-GALTON LONG ALVIN-ET	840003124680233					C	
	KULP-GALTON MON COPPER-ET	840003127359412						
	KULP-GALTON OLY ADAM-RED-ET	840003124771965						
	KULP-GALTON OLY ANDY-RED-ET	840003124771966						
	KULP-GALTON SHANS ALBERT-ET	USA 72776396						
	KULP-PEILA DSRD SAM-RED-ET	840003131117613						
	KULP-RAGGI S PAUL P-ET	840003013444610						
	KULPWOOD A SALUTE-RED-ET	840003013444640						1
	KULPWOOD AIK SAMSON-ET	840003013444634						1
11HO00522	KY-BLUE MARQUESS-RED-ET	USA 133875069						
200HO02108	KY-BLUE-I CIRCLE-ET	CAN 7528901						
	KY-PROUD GOLDEN BOY-ET	USA 140464982						
	KY-PROUD JEEVES HARPER-ET	USA 140326101						

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
(Blank=Tested-Free, C=Carrier) Use CTRL-F to search.**

Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	KY-PROUD JEEVES HOOPER-ET	USA 140326099						
	KY-PROUD JOSH-ET	USA 140301447						1
	KY-PROUD LUCK-ET	USA 140264779						
	KY-PROUD MASSEY HOLDEM-ET	USA 140326110						
	KY-PROUD MICHAEL JOSH-ET	USA 140326080						
	KY-PROUD RUSSELL HARVEST	USA 140413155						