

**Male Carriers for Haplotypes Impacting Fertility on the Records of
Holstein Association USA, Inc. as of 04/11/2016
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Stud Code	Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
	I-A-STATE CABRIOLET E BEAU	USA 72753121	C					
	I-A-STATE YOWZA E EMILE	USA 74086933						
	I-DEL SUPER STAR	USA 71891834						
21HO00280	I-O-STATE CHIEF FORD	USA 1674245						
202HO00876	IANTO-ET	DEU 1404369146						
180HO85220	ICETEA	FRA 2251712773						
182HO00859	ICONE	FRA 3554772975						
	IDAHO	NLD 569897341						
1HO00104	IDEAL FURY REFLECTOR	USA 1381027						
	IDEALS A PLUS OBAMA-RED-ET	USA 66948654						
	IDEALS YODER CLYDE	USA 73425486						
250HO00889	IDEE LAGER-ET	CAN 8811527						
200HO04983	IDEE WIRE-RED	CAN 8531255						
200HO07137	IDENTITY-ET	CZE 78367061	C					
	IDLE-NEER BIZ	USA 69551362						
	IDLE-NEER CARSON	USA 65471237						
	IDLE-NEER CLK EPIC CLEO-ET	USA 71761586					C	
	IDLE-NEER COMFORTABLE	USA 69551364						
	IDLE-NEER CONCRETE-ET	USA 69551361						
	IDLE-NEER CONTROL	USA 65471215						
	IDLE-NEER COY	USA 69551320						
29HO14269	IDLE-NEER CZAR-ET	USA 62790435						
	IDLE-NEER LAWLESS	USA 69551358						
	IDLE-NEER LAWMAN	USA 69551356						
	IDLE-NEER LEGENDARY-ET	USA 65471231						1
	IDLE-NEER LEGION-ET	USA 65471233					C	
6HO01160	IDLE-NEER LOOKOUT-ET	USA 65471240					C	1
	IDLE-NEER LUCKY 7	USA 62790420						
	IDLEWILD BEACON GUS	USA 141215572						
	IDLEWILD BRADFORD	USA 142608157						1
	IDLEWILD BURTON	USA 143181202						
	IDLEWILD COLT LOU	USA 142019450						1
	IDLEWILD ELLISON-TW	USA 141948300						
	IDLEWILD ELY DORCY	USA 142807480						
	IDLEWILD GOVERNOR MICK	USA 142205644						
	IDLEWILD MOGUL JOE	USA 143596246						
	IDLEWILD MONTROSS CAGE	USA 143487344						
	IDLEWILD MONTROSS DANIEL	USA 143350404						
	IDLEWILD OMAN ALEXANDER	USA 140847183						
	IDLEWILD RADCLIFFE	USA 142608148						
	IDLEWILD RUSSELL	USA 143009362						
	IDLEWILD TANGO HOUSTON	USA 143408675			C			
	IGALE MASC-ET	FRA 4493050102						
	IHG 1STCLASS MER 1079-ET	USA 74599856						
29HO18110	IHG ABS JERICO-ET	840003128557283						

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29HO18111	IHG ABS JOVANY-ET	840003128557281						
	IHG ADELE CASH 1042-ET	USA 73746081						
534HO00039	IHG ADVANCE P-RED-ET	USA 73828407						
200HO10449	IHG AIRSHIP-RED-ET	USA 73963293						
	IHG ANA LABRON 55719-ET	840003010354466						
534HO00045	IHG ARDENT-ET	USA 73963461						
200HO10493	IHG CADILLAC-ET	USA 73963468						
534HO00060	IHG CAINE-ET	840003129037624						
14HO07664	IHG CAM TIRANA-ET	USA 73963294						
	IHG CAMARO MOGUL 674-ET	USA 73963395						
	IHG CASHCOIN GOR 57813-ET	840003010356560						
200HO10440	IHG COMPLEX-ET	USA 73963365						
	IHG DANCE TANGO 1086-ET	840003124584840		C				
	IHG DEFEND VIKING-ET	USA 73590604						
200HO10494	IHG DISCUSSION-ET	USA 73963346						
	IHG DISTINCT-ET	USA 73963428						
	IHG EASYGOING-ET	USA 73963482						
534HO00059	IHG ENGAGE	840003128881300						
200HO10489	IHG EXECUTIVE-ET	USA 73963469						
534HO00057	IHG FIRSTBORN-ET	USA 74599866						
	IHG FLAME 1068-ET	840003125202077						
	IHG FLAME VALOUR 55681-ET	840003010354428						
	IHG FLAME VALOUR 55692-ET	840003010354439						
	IHG GARLIC MARDI 57898-ET	840003010356645						
	IHG GEO 55710-ET	840003010354457						
200HO10569	IHG GEOGRAPHY-ET	USA 74599902						
534HO00038	IHG GLAMOR-ET	840003010356563						
	IHG GOR 55717-ET	840003010354464						
200HO10488	IHG GRYFFINDOR-ET	USA 73963336						
566HO01245	IHG HALO VALDEZ-ET	USA 73963280						
14HO07683	IHG HALOGEN VICTOR 634-ET	USA 73963355						
513HO03095	IHG HOMERUN-ET	USA 73963354						
	IHG JACEY GEORGIA 57781-ET	840003010356528						
534HO00047	IHG JAMMIN-ET	USA 73963419						
200HO10651	IHG JERICO-ET	840003129037885						
	IHG KANU 1057-RED-ET	USA 73899061						
	IHG KANU 1058-RED-ET	USA 73899062						
	IHG KANU 1060-RED-ET	USA 73899063						
14HO07738	IHG LHOUSE VICTORIOUS 9653	840003123835142						
	IHG MADGE OAK 57792-ET	840003010356539						
	IHG MAIN E GARLIC 686-ET	USA 73963407						
	IHG MAIN E GARLIC 692-ET	USA 73963413						
	IHG MAIN E VARSITY 653-ET	USA 73963374						
	IHG MAIN TAMRIEL 766-ET	USA 73963487						
	IHG MARDI TAMRIEL 719-ET	USA 73963440						

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534HO00070	IHG MAXIMUS-ET	840003129038326						
534HO00046	IHG MCLAREN-ET	USA 73963459					C	
534HO00063	IHG MERLOT-ET	840003129037951						
534HO00049	IHG MONTANA-ET	USA 74414026						
	IHG MONTROSS DARK	USA 74015454						
	IHG MONTROSS VICK	840003127292498						
	IHG NOMINEE MERRIT 535-ET	USA 73590598						
	IHG OAK VALOUR 57830-ET	840003010356577						
	IHG OAK VICKIE 57768-ET	840003010356515						
	IHG OCTOBERFEST MER 1792-ET	840003129038167						
	IHG OLY ADELE 631-RED-ET	USA 73963352						
566HO01244	IHG PONDER ETHICS-ET	USA 73963474						
	IHG POWERBALL BOOMER P-ET	840003129016014						
7HO13445	IHG POWERBALL PRIME-P-ET	840003129016288						
	IHG PRESIDENT MOGUL 856-ET	USA 74414071						
	IHG RACER MCAREY 679-ET	USA 73963400						
	IHG SENSATIONAL MG 55736-ET	840003010354483						
	IHG SILVER GOR 1594-ET	840003129037969						
	IHG TANGO 1073-ET	USA 74010153		C				
	IHG TANGO 1074-ET	USA 74010154		C				
	IHG TANGO 1081-ET	USA 74011227		C				
	IHG TANGO ADELE 1088-ET	USA 74244836		C				
	IHG TANGO GIL 57784-ET	840003010356531						
543HO00057	IHG TANGO METCALF 560-ET	USA 73963281						
	IHG TANGO VARSITY 55685-ET	840003010354432		C				
534HO00051	IHG TYCOON-ET	USA 74414110						
200HO10490	IHG VALERIUS-ET	USA 73963278						
	IHG VALOUR 55727-ET	840003010354474						
534HO00042	IHG VECTOR-ET	840003010354487						
534HO00043	IHG VERIFY-ET	USA 73963279						
534HO00037	IHG VICTORY-ET	840003010354319						
200HO10380	IHG VILLAGER-ET	840003125201937						
200HO10492	IHG VODKA-ET	USA 73963376						
200HO10491	IHG VOLUNTEER-ET	USA 73963326						
289HO01101	IHG WINNEY ALTANDJSHARK-ET	840003010354283						
	IHG WINNEY CC 55626-ET	840003010354373						
	IHG WINNEY MACK 57774-ET	840003010356521						
	IHG WINNEY PRED 55534-ET	840003010354281						
	IHG YODER VALOUR 1363-ET	840003129037738						
29HO09660	IJLSTER HOWIE PATRON	NLD 216745209						
11HO07219	IJSSELVLIEDT BREAKOUT	NLD 235387929						
8HO01914	IKENOTCH BELLOR JACK	USA 2000534						
	ILAND-ACRE BAXTER DUDLEY	USA 64594540						
	ILAND-ACRE BOLTON DUDE-ET	USA 64594537						
	IMPERIAL DIAMOND-ET	USA 2103137						

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8HO02611	IMPERIAL-C MARK COMET	USA 2100017	C					
9HO01293	IMPERIAL-C NB CURIOUS-ET	USA 2037045						
151HO00432	IMPERIAL-RIDGE SM DANIAL-ET	USA 135158128						
	IN MOZY BUCKY-P-RED-ET	USA 71341203						1
	IN-RED 5290-ET	USA 71864282	C					1
	IN-RED 5291-ET	USA 71864283						1
	IN-RED BOMBERO RIPPER-ET	840003130939207						
	IN-RED HORN ZAPPER P RC-ET	USA 71341190						
	IN-RED MCGUCCI GLACIER-ET	840003130939216						
14HO04189	IN-THE-BLU ECLAT-ET	USA 133060038						
7HO07652	IN-THE-BLU ESKIMOE-ET	USA 133060047						
11HO08150	INCH EMERALD-ET	GBR 604830						
	INCOGNITO BWIRE REGATA-ET	USA 70086437						
	INCOGNITO BWIRE RIO-RED-ET	USA 70086438						
180HO85280	INCREDIBLE	FRA 2931125805						
11HO05421	INDEPENDENT LUNAR	CAN 7057207						
	INDIAN-STONE AFTRSHOCK KIKO	USA 73403324						
	INDIAN-STONE DOORMAN DENVER	USA 74266117					C	
	INDIAN-STONE FEVER SAMUEL	USA 72290227						
	INDIAN-STONE FEVER SAUL	USA 74266069						1
	INDIAN-STONE G W VICIOUS-ET	USA 70193632						1
	INDIAN-STONE MOGUL GLOBE	USA 71362317						
	INDIAN-STONE MOGUL JAGGER	USA 73403299						
	INDIAN-STONE PRO VOLCANO-ET	USA 73403266						
	INDIAN-STONE SAN VULCAN-ET	USA 73403273						
	INDIAN-STONE WNBK VIRGIL-ET	USA 71362221						
	INDIAN-STONE WNBK VERN-ET	USA 70193658						
6HO00658	INDIANHEAD BLACK MAGIC-ET	USA 2270549	C					
80HO00305	INDIANHEAD ENCOUNTER-ET	USA 130432362						
	INDIANHEAD GM SNOWBALL-ET	USA 71986014			C			
	INDIANHEAD GM SNOWBANK-ET	USA 71986013			C			
	INDIANHEAD GM SNOWSTORM-ET	USA 71986015						
6HO01132	INDIANHEAD GOLDMAN-ET	USA 137877924						1
200HO01301	INDIANHEAD LUE-ET	USA 127018939	C					
	INDIANHEAD MAE MAN-ET	USA 69715270						
	INDIANHEAD MAN-O-MAE-ET	USA 69994546						
7HO08377	INDIANHEAD MARSHALL CASH-ET	USA 135005185						
7HO08895	INDIANHEAD MOHICAN-ET	USA 136101941						
99HO06742	INDIANHEAD RACHET-RED-ET	USA 139078189						
94HO08410	INDIANHEAD RED-MARKER-ET	USA 2284915						
200HO04671	INDIANHEAD REDZONE-RED-ET	USA 129391034						
7HO06037	INDIANHEAD ROYAL CROWN-ET	USA 18030244						
	INDIANHEAD SHOW-OFF	USA 71448657					C	
138HO04448	INDIES-VIEW LEGEND-P-RED-ET	840003004222468						
138HO04740	INDIES-VIEW LUDOVIC-RED	USA 137067130						

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	INDIES-VIEW-GW MAGNUS-D	USA 71852872						
	INDOHIO BOXER SMO-JO	USA 70299974						
73HO02210	INFINITY FANTASY-ET	USA 2217207						
21HO01779	INGLIS REVELATION-ET	USA 2081640			C			
180HO86108	INGOLD	FRA 4949348981		C				
29HO12459	INKERSALL ROLLDAN	GBR 622793						
	INNISLAKE OUTFITTER-ET	CAN 9148689		C				
200HO02015	INNWOOD FRIO-ET	CAN 7468053						
200HO01838	INNWOOD INDIGO-ET	CAN 8739324						
	INNWOOD INNOVATION	CAN 5577624	C					
	INNWOOD TABULATOR-ET	CAN 5837102						
73HO02915	INNWOOD TERRASON	CAN 6581869	C					
11HO08343	INNWOOD TRUMAN-ET	CAN 8739307						
180HO86004	INPUT	FRA 5363617632						
	INSHARE	NLD 569897327						
180HO86008	INSIDER-ET	FRA 5368980695						
	INSPIRED CHECKMATE-ET	CAN 10710764						
180HO85288	INTACT	FRA 4925995282						
	INTEGRITY 70 237 597	USA 70237597						
	INTEGRITY GODOT	USA 141570437		C				
14HO06381	INTEGRITY LITTLE BECKER	USA 139957019						
14HO06540	INTEGRITY LUSTYBOY-ET	USA 140357260		C				
	INTEGRITY SAMSON-ET	USA 70237594						
	INTEGRITY SONNY MIDAS-ET	840003004222361						
11HO11163	INTENSE ALTAPRIVILEGE-ET	USA 69812320						
	INTENSE DAY 1265-ET	USA 71872388						
	INTENSE DAY 1266-ET	USA 71872389						
	INTENSE FREDDIE 1210-ET	USA 69812299						
	INTENSE FREDDIE 1212-ET	USA 69812301						
	INTENSE FREDDIE 1214-ET	USA 69812303						
	INTENSE FREDDIE 1215-ET	USA 69812304						
	INTENSE LITHIUM 1263-ET	USA 71872386						
	INTENSE LITHIUM 1264-ET	USA 71872387						
	INTENSE MAURICE 1292	USA 71872415						
	INTENSE OB SPL 172M-ET	840003010665419						
	INTENSE OB SPL 174M-ET	840003010665421						
	INTENSE OBSERVER 1224-ET	USA 69812313						
	INTENSE OBSERVER 1227-ET	USA 69812316						
	INTENSE OBSERVER 1230-ET	USA 69812319						
	INTENSE OBSERVER 1241-ET	USA 69812330						
	INTENSE OBSERVER 1244-ET	USA 69812333						
	INTENSE OBSERVER 1245-ET	USA 69812334						
	INTENSE PADDY 1232-ET	USA 69812321						
	INTENSE PADDY 1233-ET	USA 69812322						
	INTENSE PADDY 1234-ETS	USA 69812323						

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	INTENSE PADDY 1235-ETS	USA 69812324						
	INTENSE PADDY 1237-ET	USA 69812326						
	INTENSE ROBUST 1246	USA 69812335						
	INTENSE SHOTGLASS 1284-ET	USA 71872407						
	INTENSE SHOTGLASS 1304-ET	USA 73770056						
	INTENSE SHOWBOY 1203	USA 69812292						
	INTENSE SPACKLE-ET	840003011167463						
29HO16224	INTENSE SPIRIT-ET	USA 69812300						
	INTENSE SPLASH-653-ET	840003011167453						
	INTENSE SSI FRED SAFEWAY-ET	840003007701823						
	INTENSE SSI FREDDIE SAYS-ET	840003007701824						
	INTENSE VH BETRAY 1268-ET	USA 71872391						
	INTENSE VH MAYFIELD 1260-ET	USA 71872383						
	INTENSE VH MAYFIELD 1278-ET	USA 71872401			C			
	INTENSE VH MAYHEM-ET	840003011167538						
	INTENSE VH MAYSON-ET	840003011167540			C			
	INTENSE VH MERIDIAN 1267-ET	USA 71872390						
29HO17605	INTENSE VH ZIPPER-ET	USA 71872392						
	INTENSE-COM 1274 SS 300M-ET	840003013064537						
	INTENSE-COM 1283JO 1330M-ET	USA 73770082						
	INTENSE-COM 1283JOS 301M-ET	840003130001741						
	INTENSE-COM DAM982 1335M-ET	USA 73770084						
	INTENSE-COM DEYJA 1321M-ET	USA 73770073						
250HO12792	INTENSE-COM DJ 1274 283M-ET	840003013064520						
	INTENSE-COM JS 1283 329M	840003130001769						
7HO12578	INTENSE-COM MADUKO 243M--ET	840003013064480						
	INTENSE-COM MNT 982 241M-ET	840003013064478						
	INTENSE-COM MNT 982 245M-ET	840003013064482						
	INTENSE-COM MNT 982 246M-ET	840003013064483						
	INTENSE-COM MNT 982 248M-ET	840003013064485						
	INTENSE-COM MNT 982 249M-ET	840003013064486						
	INTENSE-COM OCT1283 314M-ET	840003130001754						
	INTENSE-COM SC 1274 326M-ET	840003130001766						
	INTENSE-COM SEC1283 305M-ET	840003130001745						
	INTENSE-COM SEC1283 332M-ET	840003130001772						
	INTENSE-COM SV 1283 312M-ET	840003130001752						
	INTENSE-COM SV1283 311M-ET	840003130001751						
	INTENSE-COM Y1274 1331M-ET	USA 73770083						
	INTENSE-COM YD1274 304M-ET	840003130001744						
97HO41604	INTENSE-COM YODER SPLASH-ET	840003013064533						
	INTERCAN CAVALIER-ET	CAN 6771121	C					
	INTERCAN FERNAND	CAN 6766724						
	INTERCAN FIDO-ET	CAN 6718423						
200HO03020	INTERCAN FOREMAN	CAN 6769919						
72HO00896	INTERCAN FORTUNE-ET	CAN 5981241						

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	INTERCAN FREEDENT-ET	CAN 6363559						
	INTERCAN FREEWAY	CAN 6769915						
	INTERCAN FRISCO-ET	CAN 6363557						
1HO00972	INTERGEN-I M ANNUITY-ET	USA 2224603			C			
	INTERGEN-II CLEITUS WALT-ET	USA 2104419						
29HO15478	INVERWOOD SHOTTLE LOGIE-ET	AUS H01436061					C	
180HO85287	IONIC	FRA 4451427212						
76HO00487	IRA-MOOS LEGALUS	USA 135932988						
	IRISH BELUGA 703-ET	USA 73530950						
	IRISH BELUGA 710-ET	USA 73530957						
	IRISH BELUGA 717-ET	USA 73530964						
	IRISH BELUGA 718-ET	USA 73530965						
	IRISH DORCY 792-ET	USA 74116816						
	IRISH GUN 837-ET	840003130624936						
	IRISH GUN 844-ET	840003130624943						
	IRISH GUN 845-ET	840003130624944						
	IRISH LA-BRON 800-ET	USA 74116824						
	IRISH LA-BRON 834-ET	840003130624933						
	IRISH LA-BRON 835-ET	840003130624934						
	IRISH OAK 700-ET	USA 72792941						
	IRISH OAK 709-ET	USA 73530956						
	IRISH OTIS 712	USA 73530959						
	IRISH TANGO 702	USA 73530949		C				
	IRISH TROY 830-ET	840003130624929						
	IRISH-LAND BLACKOUT-ET	840003126367954					C	
	IRISH-LAND WHITEOUT-ET	840003126367953					C	
	IRLANDE KEN	CAN 10585342	C					
200HO04661	IRLANDE STANLEY-RED	CAN 9200859						
200HO04832	IRLANDE SUPER MARIO-RED-ET	CAN 9200882	C					
180HO86691	IROCK	FRA 2930983621						
	IRON-FURNACE SILVR BRENT-ET	840003134719249						
	IRON-OWL WB VICTORY	USA 141923383						1
	IRVINGTON PRIDE ADMIRAL	USA 1237057						
200HO07136	ISIDORUS	CZE 78362061						1
11HO10136	ISIDORUS ALTAMAZZY	NLD 464544397						
11HO10696	ISIDORUS ALTAOSAN	NLD 385038533			C			
11HO10035	ISIDORUS ALTARASCAL-ET	NLD 464543596						
11HO09566	ISIDORUS JUKEBOX	NLD 385038951				C		
180HO85227	ISITOLO	FRA 4428405867						
250HO00844	ISLEHAVEN CHAMPIONS MUTANT-ET	CAN 8360683						
250HO01035	ISLEHAVEN REVOLUTION RED-ET	CAN 11175275						
515HO00161	ITHACA	NLD 880374949						
	IV-ANN PRIDE SOCCER	USA 141693376						
180HO86694	IZALGO	FRA 5370742031						