

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T&L-HAVEN GOLDWYN TESSA	USA 62703482						
T&L-HAVEN GOLDWYN TIPPER	USA 62703472						1
T&L-HAVEN LAVANGUARD JORDAN	USA 70357971						1
T&L-HAVEN MR SAM FONDA	USA 65306634						
T&L-HAVEN NMRO UNO TASHA-ET	USA 71083345						1
T&L-HAVEN SHAMROCK TORI	USA 71083331						
T&L-HAVEN SHMROK TRIANNA-ET	USA 71083329						
T&L-HAVEN TRICKLE	USA 142610987						
T-BEACHY AL GABRIEL	USA 142871371						
T-BEACHY BEEMER TABBY	USA 74292230						
T-BEACHY DELTA BRADY	USA 74292223						
T-BEACHY DELTA GINA	USA 74292219						
T-BEACHY FREDDIE DANIKA-ET	USA 140790034						
T-BEACHY GOLD CHIP PAISLEY	USA 142432677						
T-BEACHY KINGBOY CARMIE-ET	USA 74292232					C	
T-BEACHY KINGBOY CARRIE-ET	USA 74292233						
T-BEACHY LARSON DENA	USA 141740676					C	
T-BEACHY PONDER DAZZARAE	USA 74292220						
T-BEACHY SHOTTLE DAZZERAE	USA 139436176					C	
T-BEACHY SHOTTLE GABBY	USA 142453663						
T-BEACHY SHOTTLE GWYN	USA 141920559					C	
T-BEACHY SUPER DAVYE	USA 141629092						
T-BEACHY SUPERSIRE GWYN	USA 142982716						
T-BEACHY TOYSTORY DANI	USA 141009562						
T-C-G BOLTON MARE-ET	USA 62997249						
T-C-G CASSINO MINNOW	USA 69263568						
T-C-G DEBONAIR REBA-RED-ET	USA 69067414						
T-C-G DESTRY GOLD-RAE	USA 69440633						3
T-C-G GOLD RHIANNA-ET	USA 69440659						1
T-C-G GOLD RUSH-ET	USA 69440656						1
T-C-G GOLDEN-RAE-ET	USA 65270925						3
T-C-G GOLDWYN ROCKETTE-ET	USA 69957211						1
T-C-G JEEVES DARLA-ET	USA 69067404						1
T-C-G JEEVES DORA-ET	USA 69067398						
T-C-G JEEVES MADDY-ET	USA 69067439						
T-C-G JEEVES MEAGAN-ET	USA 66444209						
T-C-G JEEVES MEG-ET	USA 66444208						
T-C-G JEEVES MILLEY-ET	USA 69067417						
T-C-G JET STREAM MILEY-ET	USA 66444171						
T-C-G JET STREAM MODEST-ET	USA 66444169						
T-C-G LEAK SUPER DEANNE-RAE	USA 69931817						
T-C-G MAC EMMA-ET	USA 65270915						
T-C-G MAN-O-MAN ELLA	USA 69067415						
T-C-G MAN-O-MAN MONITA-ET	USA 69440639						
T-C-G MILLION MOXY	USA 66444184						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-C-G NIAGRA MABEL-ET	USA 69440677						
T-C-G NIAGRA MARI-ET	USA 69440675						
T-C-G NIAGRA MIRA-ET	USA 69440674						
T-C-G OBSERVER MAY-ET	USA 69957196						
T-C-G SHAQUILLE LIBY-RED-ET	USA 69067402					C	
T-C-G SHAQUILLE LIZY-RED-ET	USA 69067395						
T-C-G SHOTTLE MACARENA-ET	USA 66444192					C	
T-C-G SHOTTLE MACARIA-ET	USA 66444188			C			
T-C-G SHOTTLE MINNOW	USA 66444167					C	
T-C-G SIDNEY MARLA-ET	USA 69067397						
T-C-G SUPER LINDSY-ET	USA 69440667				C		
T-C-G SUPER MIRAGE-ET	USA 69957193					C	
T-C-G SUPER MIRROR-ET	USA 69957192						
T-C-G SUPER MYSTIC-ET	USA 69957194					C	
T-GEN DF BANF SIENNA A 1183	USA 72692085						
T-GEN-AC ABS 7273 ARI-ET	840003128557273						
T-GEN-AC BANFF ROBIN-ET	USA 72225335						
T-GEN-AC BANFF ROCK-ET	USA 72203377						
T-GEN-AC BANFF ROCOCO-ET	USA 72203373						
T-GEN-AC BANFF RODDY-ET	USA 72225336						
T-GEN-AC BANFF ROLLING-ET	USA 72203378						
T-GEN-AC BANFF ROMANCE-ET	USA 72203374						
T-GEN-AC BANFF ROYAL-ET	USA 72203375						
T-GEN-AC BANFF ROYKSOPP-ET	USA 72203376						
T-GEN-AC BRILIANANT JAKOVA-ET	840003123885827						
T-GEN-AC BRILIANANT OSIRIS	840003013250913						
T-GEN-AC BRILLANT ONEIDA-ET	840003014259037						
T-GEN-AC BRILLIANT CYCLE-ET	840003124584704						
T-GEN-AC BRILLIANT MAMA-ET	840003125945345						
T-GEN-AC BRILLIANT MANGA-ET	840003125945339						
T-GEN-AC BRILLIANT OCEAN-ET	840003013923932						
T-GEN-AC BRILLIANT OOPS-ET	840003014334911						
T-GEN-AC BRILLIANT TOKYO-ET	840003014335030						
T-GEN-AC CAHSMONEY DISCO-ET	840003012559707						
T-GEN-AC CASHMONEY DARLY-ET	840003012559694						
T-GEN-AC CONF ST-VINCENT-ET	840003125945011						
T-GEN-AC CONFET EVERTINA-ET	840003125944978						
T-GEN-AC CONFETT YOKO-ET	840003125944948						
T-GEN-AC CONFETTI DOER-ET	840003133063499	C					
T-GEN-AC CONFETTI EFFY-ET	840003125944976						
T-GEN-AC CONFETTI ELEGIA-ET	840003125944982						
T-GEN-AC CONFETTI ERGO-ET	840003125944975						
T-GEN-AC CONFETTI ETOILE-ET	840003125944985						
T-GEN-AC CONFETTI EVETT-ET	840003125944970						
T-GEN-AC CONFETTI KARLA	840003123606875						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-GEN-AC CONFETTI KINDLE-ET	840003125945100						
T-GEN-AC CONFETTI KORY-ET	840003125945041						
T-GEN-AC CONFETTI LIZA-ET	840003125945123						
T-GEN-AC CONFETTI LYKKE-ET	840003125945156						
T-GEN-AC CONFETTI MAGDA-ET	840003125944862						
T-GEN-AC CONFETTI MEGGIE-ET	840003133063344						
T-GEN-AC CONFETTI RHYE-ET	840003133063381						
T-GEN-AC CONFETTI SACHA-ET	840003125945397						
T-GEN-AC CONFETTI SANDY-ET	840003125945389						
T-GEN-AC CONFETTI SIDNEY-ET	840003125945392						
T-GEN-AC CONFETTI YOKONO-ET	840003125945481						
T-GEN-AC CONFETTI YURI-ET	840003125945197						
T-GEN-AC DADDY ROMANIA-ET	USA 72364651						
T-GEN-AC DENZEL JANADINA-ET	USA 72641516						3
T-GEN-AC DENZEL JANARDY-ET	USA 72641519		C				3
T-GEN-AC DIXIE 1STLADY-ET	840003125945288						
T-GEN-AC DIXIE 1STLOVER-ET	840003125945276						
T-GEN-AC DIXIE CALYPSO-ET	840003125945128						
T-GEN-AC DIXIE CARINA-ET	840003125945126						
T-GEN-AC DIXIE CORY-ET	840003125945122						
T-GEN-AC DIXIE DAFFODIL-ET	840003125945403						
T-GEN-AC DIXIE DAPHNE-ET	840003125945419						
T-GEN-AC DIXIE DARCY-ET	840003125945422						
T-GEN-AC DIXIE DARLENE-ET	840003125945417						
T-GEN-AC DIXIE DELIGHT-ET	840003133063443						
T-GEN-AC DIXIE DELILAH-ET	840003133063471						
T-GEN-AC DIXIE DENISE-ET	840003133063461						
T-GEN-AC DIXIE DOLLY-ET	840003133063478					C	
T-GEN-AC DIXIE DOLORES-ET	840003133063466	C				C	
T-GEN-AC DIXIE DONNA-ET	840003125945427						
T-GEN-AC DIXIE DOODLY-ET	840003133063477						
T-GEN-AC DIXIE DOREEN-ET	840003133063470					C	
T-GEN-AC DIXIE DORIS-ET	840003133063482						
T-GEN-AC DIXIE DOROTHY-ET	840003133063489						
T-GEN-AC DIXIE EASYGOING-ET	840003125945468					C	
T-GEN-AC DIXIE GIRLPOOL-ET	840003125945347						
T-GEN-AC DIXIE KALYNE-ET	840003125945106						
T-GEN-AC DIXIE KAYLE-ET	840003125945113						
T-GEN-AC DIXIE PHOEBE-ET	840003133063524						
T-GEN-AC DIXIE PORTIA-ET	840003133063522						
T-GEN-AC DIXIE PURE-ET	840003133063525						
T-GEN-AC DIXIE RACHEL-ET	840003133063402						
T-GEN-AC DIXIE RAINBOW-ET	840003133063388						
T-GEN-AC DIXIE REVERIE-ET	840003133063391						
T-GEN-AC DIXIE RING-ET	840003133063389						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-GEN-AC DIXIE ROXANNE-ET	840003133063372						
T-GEN-AC DIXIE ROYALE-ET	840003133063377						
T-GEN-AC DIXIE SLEATER-ET	840003125944998						
T-GEN-AC DIXIE SPARKLING-ET	840003125945007						
T-GEN-AC DIXIE WINNER-ET	840003125945170						
T-GEN-AC DIXIE YAHYA-ET	840003125945039						
T-GEN-AC DIXIE YOGI-ET	840003125945031						
T-GEN-AC DODLE MS MARTHA-ET	840003125945357						
T-GEN-AC DOODLE DAHLIA-ET	840003125945366						
T-GEN-AC DOODLE DALIAH-ET	840003123600961						
T-GEN-AC DOODLE DALIDA-ET	840003123600907						
T-GEN-AC DOODLE DAWN-ET	840003125945360						
T-GEN-AC DOODLE DECCA-ET	840003125945377						
T-GEN-AC DOODLE DOOGIRL-ET	840003012559937					C	
T-GEN-AC DOODLE DOREMI-ET	840003123600958						
T-GEN-AC DOODLE JANINE-ET	840003123600837		C				
T-GEN-AC DOODLE JAPAN-ET	840003123600850						
T-GEN-AC DOODLE JINXED-ET	840003123600703						
T-GEN-AC DOODLE LOVELY-ET	840003014334816						
T-GEN-AC DOODLE LULLABYE-ET	840003014334909						
T-GEN-AC DOODLE MAFIA-ET	840003014334841						
T-GEN-AC DOODLE MALI-ET	840003014334848						
T-GEN-AC DOODLE MARIA-ET	840003014334844						
T-GEN-AC DOODLE MARTHA-ET	840003014334845						
T-GEN-AC DOODLE MCAFEE-ET	840003123600672						
T-GEN-AC DOODLE PASSION-ET	840003013177262						3
T-GEN-AC DOODLE TANLINE-ET	840003014334969						
T-GEN-AC DOODLE WAPITI-ET	840003123885843						
T-GEN-AC DOODLE WEDDING-ET	840003123600863		C				
T-GEN-AC DOODLE WHICKED-ET	840003123885855		C				
T-GEN-AC DOODLE WILHELMY-ET	840003123600885						
T-GEN-AC DOODLE WINTER-ET	840003123885838						
T-GEN-AC DREARYS EMILY-ET	USA 71818797						
T-GEN-AC DREARYS EMMA-ET	USA 71818796						
T-GEN-AC DREARYS EMOJO-ET	USA 71818801						
T-GEN-AC DREARYS EMOTION-ET	USA 71818799						
T-GEN-AC DREARYS GLITTER-ET	USA 71740417						
T-GEN-AC DREARYS GOLDEN-ET	USA 71740416						
T-GEN-AC DREARYS GOLDIE-ET	USA 71740415						
T-GEN-AC DREARYS GOLDUST-ET	USA 71740414						
T-GEN-AC DTRMINE JASMINE-ET	840003012559733						
T-GEN-AC EPIC ROSALIE-ET	USA 72025974						
T-GEN-AC EPIC ROSSIGNOL-ET	USA 72080435						
T-GEN-AC GALAXY REBEL-ET	840003012559990						
T-GEN-AC HIGH LYKKE LI-ET	USA 72025973						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-GEN-AC HIGHWAY LYRIC-ET	USA 72051627						
T-GEN-AC LATIMER DREAM-ET	USA 72693282						
T-GEN-AC LATIMER RUSTIE-ET	USA 72641517						
T-GEN-AC LAYNE LYCIA-ET	USA 72246266						
T-GEN-AC LAYNE LYCKA-ET	USA 72246267						
T-GEN-AC LAYNE LYCORIS-ET	USA 72246268						
T-GEN-AC LAYNE RUSSIA-ET	USA 72364650						
T-GEN-AC LAYNE STELLA-ET	USA 72377546						
T-GEN-AC MAYFIELD LISBON-ET	USA 72171894						
T-GEN-AC MAYFIELD LYLI-ET	USA 72186525			C			
T-GEN-AC MAYFIELD LYSBET-ET	USA 72171892			C			
T-GEN-AC MAYFIELD LYSON-ET	USA 72140202			C			
T-GEN-AC MAYFLD LYNDSEY-ET	USA 72171897			C			
T-GEN-AC MCCTCHN JANALEA-ET	USA 72590238						
T-GEN-AC MCCUTCHEN DOLIA-ET	840003012559653						
T-GEN-AC MCCUTCHEN DOUNE-ET	840003012559617						
T-GEN-AC MCUTCHN RUKSANA-ET	USA 72450966						
T-GEN-AC MISS ALABAMA-ET	840003128557279						N
T-GEN-AC MISS ARIZONA-ET	840003128557274					C	N
T-GEN-AC MOGUL JANALEE-ET	USA 72250169						
T-GEN-AC MOGUL JANALISA-ET	USA 72250170						
T-GEN-AC MOGUL JANALYN-ET	USA 72265761						
T-GEN-AC MOGUL JANAVEE-ET	USA 72265762						
T-GEN-AC MOGUL JANAYA-ET	USA 72265763						
T-GEN-AC MOGUL JANAYE-ET	USA 72265764						
T-GEN-AC MOGUL LYANNA-ET	USA 72127284						
T-GEN-AC MOGUL LYCHEE-ET	USA 72171893						
T-GEN-AC MOGUL LYDIA-ET	USA 72130907						
T-GEN-AC MOGUL LYNNSHA-ET	USA 72080436						
T-GEN-AC MOGUL ROSKILDE-ET	USA 72130908						
T-GEN-AC MOGUL ROSSI-ET	USA 72127285						
T-GEN-AC MOGUL ROSYLANE-ET	USA 72140201						
T-GEN-AC MOGUL SHIMMER-ET	USA 72282533						
T-GEN-AC MORGAN DOOGIE-ET	USA 72761869					C	
T-GEN-AC MUGSY PARIS-ET	840003125945404						
T-GEN-AC MUGSY PATTIE-ET	840003125945385						
T-GEN-AC MUGSY YOGA-ET	840003125945355						
T-GEN-AC MUGSY YOGI-ET	840003125945338						
T-GEN-AC MUGSY YOLO-ET	840003125945346						
T-GEN-AC PARADISE YELENA-ET	USA 72373993						
T-GEN-AC PETRON JANALANA-ET	USA 72512981						
T-GEN-AC PTRN JANNICK-ET	USA 72693283						
T-GEN-AC PUNCH LYSABEL-ET	USA 72302309						
T-GEN-AC PUNCH VANESSA-ET	USA 72373995						
T-GEN-AC SARGEANT SWAN-ET	USA 72325466						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-GEN-AC SRGNT JANALUNA-ET	USA 72300805						
T-GEN-AC SUPERSIRE RUTH-ET	USA 72406156						
T-GEN-AC UNO ROSANA-ET	USA 72103439						
T-GEN-AC UNO ROSANNE-ET	USA 72103441						
T-GEN-AC UNO ROSSLYN-ET	USA 72091652						
T-GEN-AC UNO ROSY-ET	USA 72103440						
T-HENDERSON ADVENTURE 561	USA 66481040						
T-HENDERSON AFTERSHOCK 797	USA 73453493						
T-HENDERSON AFTERSHOCK 810	USA 73453506						
T-HENDERSON AFTERSHOCK 815	USA 73453511					C	
T-HENDERSON AIRLIFT 720	USA 70834414						
T-HENDERSON ARMANI 808	USA 73453504						1
T-HENDERSON ARMANI 813	USA 73453509						1
T-HENDERSON AVALON 579	USA 66481058						
T-HENDERSON BOOKEM 606	USA 70834300						
T-HENDERSON BOWSER 607	USA 70834301						
T-HENDERSON BOXER 543	USA 66481022						
T-HENDERSON BOXER 553	USA 66481032						
T-HENDERSON BUILDER 719	USA 70834413		C				
T-HENDERSON CASHCOIN 782	USA 73453478						1
T-HENDERSON CASHCOIN 816	USA 73453512						1
T-HENDERSON CELTIC 789	USA 73453485						
T-HENDERSON CELTIC 798	USA 73453494					C	
T-HENDERSON CLARK 599	USA 66481078						
T-HENDERSON CLARK 600	USA 66481079						
T-HENDERSON CLARK 714	USA 70834408					C	
T-HENDERSON CLARK 800	USA 73453496						
T-HENDERSON DAY 715	USA 70834409						
T-HENDERSON DAY 788	USA 73453484						
T-HENDERSON DEP 694-RED	USA 70834388						
T-HENDERSON DIGGER 555	USA 66481034						
T-HENDERSON DORCY 806	USA 73453502						
T-HENDERSON DUCATI-817-RED	USA 73453513						
T-HENDERSON FREDDIE 559	USA 66481038						3
T-HENDERSON G W ATWOOD 790	USA 73453486						
T-HENDERSON HERO 811	USA 73453507						
T-HENDERSON HILL 716	USA 70834410						
T-HENDERSON HILL 781	USA 73453477						
T-HENDERSON HILL 785	USA 73453481						
T-HENDERSON HILL 794	USA 73453490						
T-HENDERSON HILL 807	USA 73453503						
T-HENDERSON HILL 809	USA 73453505		C				
T-HENDERSON HVEZDA 568	USA 66481047						
T-HENDERSON HVEZDA 805	USA 73453501						
T-HENDERSON JACEY 793	USA 73453489						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-HENDERSON JETT AIR 787	USA 73453483						
T-HENDERSON JETT AIR 791	USA 73453487						
T-HENDERSON JUDD 333	USA 61867099						
T-HENDERSON KOLTON 529	USA 66481008					C	
T-HENDERSON KOLTON 792	USA 73453488						
T-HENDERSON LAWN P 814-RED	USA 73453510						
T-HENDERSON MAN-O-MAN2 717	USA 70834411						
T-HENDERSON MATRIX 530	USA 66481009						
T-HENDERSON MTOTO 242	USA 61867006						
T-HENDERSON MTOTO 799	USA 73453495						
T-HENDERSON OMEGA 796	USA 73453492						
T-HENDERSON OMEGA 812	USA 73453508						
T-HENDERSON PALERMO 585	USA 66481064						
T-HENDERSON PALERMO 589	USA 66481068	C					
T-HENDERSON SANCHEZ 547	USA 66481026						
T-HENDERSON SANCHEZ 795	USA 73453491		C				
T-HENDERSON SEBASTIAN 592	USA 66481071						
T-HENDERSON SHAMPOO 542	USA 66481021						
T-HENDERSON STORMATIC 351	USA 63935268						
T-HENDERSON SUPER 550	USA 66481029						
T-HENDERSON SUPER 610	USA 70834304						
T-HENDERSON SUPERSIRE 786	USA 73453482						
T-HENDERSON TALENT 387	USA 63935304		C				
T-HENDERSON TANGO 783	USA 73453479						
T-HENDERSON TANGO 784	USA 73453480						
T-SKINNER 3442	USA 21ZTE3442						
T-SKINNER COLE 3477	USA 21ZTE3477						
T-SKINNER KARSTEN 3463	USA 21ZTE3463						
T-SKINNER MAGNETO 3467	USA 21ZTE3467						
T-SKINNER ROSS 3474	USA 21ZTE3474			C			
T-SKINNER SHAMPOO 3426	USA 21ZTE3426						
T-SKINNER SHAMPOO 3436	USA 21ZTE3436						
T-SKINNER SPARTA 3433	USA 21ZTE3433						
T-SKINNER TORNADO 3432	USA 21ZTE3432						
T-SPRUCE ABSOLUTE 9312-ET	840003130845522						
T-SPRUCE AICON 9246-ET	840003130845456						
T-SPRUCE ALCHEM 7069-RED-ET	USA 71855232						1
T-SPRUCE ALCO 207-ET	840003133371157						
T-SPRUCE ALCO 9405-ET	840003130845615						
T-SPRUCE ALCO 9409-ET	840003130845619						
T-SPRUCE ALCO 9414-ET	840003130845624						
T-SPRUCE ALCO 9415-ET	840003130845625						
T-SPRUCE ALCO 9417-ET	840003130845627						
T-SPRUCE ALCO 9419-ET	840003130845629						
T-SPRUCE ALCO 9422-ET	840003130845632						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE ALCO 9454-ET	840003130845664						
T-SPRUCE ALCO 9462-ET	840003130845672						
T-SPRUCE ALCO 9476-ET	840003130845686						
T-SPRUCE ALCO 9528-ET	840003132612916						
T-SPRUCE ARMITAGE 4740-ET	840003009697929						
T-SPRUCE ARMITAGE 4756-ET	840003009697945						
T-SPRUCE ARMITAGE 4768-ET	840003009697957						
T-SPRUCE ARMITAGE 4798-ET	840003009697987						
T-SPRUCE ARMITAGE 4962-ET	840003009698151						
T-SPRUCE ARMITAGE 7000-ET	USA 71855163						
T-SPRUCE BAYONET 9418-ET	840003130845628						
T-SPRUCE BAYONET 9431-ET	840003130845641						
T-SPRUCE BAYONET 9432-ET	840003130845642						
T-SPRUCE BAYONET 9438-ET	840003130845648						
T-SPRUCE BOASTFUL 9176-ET	840003130845386						
T-SPRUCE BOB 7819-ET	USA 72737874						
T-SPRUCE BOMBERO 8820	USA 74118114					C	
T-SPRUCE CAMERO 8530-ET	USA 74117824						
T-SPRUCE CAMERON 7092-ET	USA 71855255						
T-SPRUCE CASPIAN 8610-ET	USA 74117904						
T-SPRUCE CASPIAN 8612-ET	USA 74117906						
T-SPRUCE CASPIAN 8614-ET	USA 74117908						
T-SPRUCE CASPIAN 8624-ET	USA 74117918						
T-SPRUCE CASPIAN 8626-ET	USA 74117920						
T-SPRUCE CASPIAN 8627-ET	USA 74117921						
T-SPRUCE CASPIAN 8642-ET	USA 74117936						
T-SPRUCE CASPIAN 8685-ET	USA 74117979						
T-SPRUCE CC 7726-ET	USA 72737781						1
T-SPRUCE CC 7739-ET	USA 72737794						1
T-SPRUCE CHAMP 8470-ET	USA 73455658						1
T-SPRUCE CHAMP 8804-RED-ET	USA 74118098						3
T-SPRUCE CHAMP 8813-ET	USA 74118107						3
T-SPRUCE CHAMP 8834-ET	USA 74118128						4
T-SPRUCE CHAMP 9270-ET	840003130845480						1
T-SPRUCE CHEVROLET 8260-ET	USA 73455448						1
T-SPRUCE CHEVROLET 8271-ET	USA 73455459						
T-SPRUCE CHEVROLET 8301-ET	USA 73455489						
T-SPRUCE CLASS 8699-ET	USA 74117993						
T-SPRUCE CLASS 8711-ET	USA 74118005						
T-SPRUCE CLASS 8713-ET	USA 74118007						
T-SPRUCE CLASS 8722-ET	USA 74118016			C			
T-SPRUCE CLASS 8730-ET	USA 74118024					C	
T-SPRUCE CLASS 8731-ET	USA 74118025						
T-SPRUCE CLASS 8736-ET	USA 74118030						
T-SPRUCE CLASS 8737-ET	USA 74118031						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE CLASS 8741-ET	USA 74118035						
T-SPRUCE CLASS 8748-ET	USA 74118042						
T-SPRUCE CLASS 8870-ET	USA 74118164						
T-SPRUCE CLASS 8881-ET	USA 74118175						
T-SPRUCE COLT P 4780-RED-ET	840003009697969						
T-SPRUCE COLT P 4783-RED-ET	840003009697972						
T-SPRUCE COLT P 4897-RED-ET	840003009698086						
T-SPRUCE CROWN-P 8830-RED	USA 74118124						1
T-SPRUCE DADDY 7441-ET	USA 71855604						
T-SPRUCE DADDY 7468-ET	USA 71855631						
T-SPRUCE DADDY 7485-ET	USA 71855648						
T-SPRUCE DAKKER 4996-ET	840003009698185						
T-SPRUCE DAKOTA 9396-ET	840003130845606						
T-SPRUCE DAVINCI 8105-ET	USA 73455293						
T-SPRUCE DAVINCI 8107-ET	USA 73455295						
T-SPRUCE DAVINCI 8122-ET	USA 73455310						
T-SPRUCE DAVINCI 8124-ET	USA 73455312						
T-SPRUCE DAVINCI 8134-ET	USA 73455322						
T-SPRUCE DAVINCI 8533-ET	USA 74117827						
T-SPRUCE DAY 7330-ET	USA 71855493						
T-SPRUCE DAY 7333-ET	USA 71855496						
T-SPRUCE DAY 7342-ET	USA 71855505						
T-SPRUCE DAY 7343-ET	USA 71855506						
T-SPRUCE DAY 7354-ET	USA 71855517						
T-SPRUCE DAY 7381-ET	USA 71855544						
T-SPRUCE DAY 7410-ET	USA 71855573						
T-SPRUCE DAY 7413-ET	USA 71855576						
T-SPRUCE DAY 7437-ET	USA 71855600						
T-SPRUCE DAY 7470	USA 71855633						
T-SPRUCE DEFENDER 7944-ET	USA 72737999						
T-SPRUCE DEFENDER 7949-ET	USA 72738004						
T-SPRUCE DEFENDER 7952-ET	USA 72738007						
T-SPRUCE DEFENDER 7960-ET	USA 72738015						
T-SPRUCE DESIRED 9015-ET	840003130845225						
T-SPRUCE DETER 7694-ET	USA 72737749						
T-SPRUCE DETER 7706-ET	USA 72737761						
T-SPRUCE DETER 7711-ET	USA 72737766						
T-SPRUCE DETER 7721-ET	USA 72737776						
T-SPRUCE DEYJA 8658-ET	USA 74117952						
T-SPRUCE DISTILLER 8773-ET	USA 74118067						
T-SPRUCE DRESSER 8618-ET	USA 74117912						
T-SPRUCE DSIRED 8979-RED-ET	USA 74118273						
T-SPRUCE EFFECT P 7456	USA 71855619						1
T-SPRUCE ERASER 9235-ET	840003130845445						
T-SPRUCE EXPLODE 7188-ET	USA 71855351						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE G W ATWOOD 4767-ET	840003009697956						
T-SPRUCE G W ATWOOD 4769-ET	840003009697958		C				
T-SPRUCE GALAXY 7315	USA 71855478						
T-SPRUCE GALAXY 7714-ET	USA 72737769						
T-SPRUCE GALAXY 8207-ET	USA 73455395					C	
T-SPRUCE GALAXY 8208-ET	USA 73455396						
T-SPRUCE GALAXY 8215-ET	USA 73455403					C	
T-SPRUCE GALAXY 8252-ET	USA 73455440			C			
T-SPRUCE GALAXY 8253-ET	USA 73455441			C			
T-SPRUCE GALAXY 8262-ET	USA 73455450			C		C	
T-SPRUCE GALAXY 8287-ET	USA 73455475					C	
T-SPRUCE GALAXY 8288-ET	USA 73455476					C	
T-SPRUCE GILBY 7184-ET	USA 71855347						
T-SPRUCE GILBY 7193-ET	USA 71855356						
T-SPRUCE GREENWAY 8486-ET	USA 73455674						
T-SPRUCE GUN 9222-ET	840003130845432						
T-SPRUCE GUN 9251-ET	840003130845461						
T-SPRUCE HALOGEN 8034-ET	USA 73455222						
T-SPRUCE HALOGEN 8118-ET	USA 73455306						
T-SPRUCE HALOGEN 8146-ET	USA 73455334						
T-SPRUCE HALOGEN 8159-ET	USA 73455347						
T-SPRUCE HALOGEN 8308-ET	USA 73455496						
T-SPRUCE HALOGEN 8311-ET	USA 73455499						
T-SPRUCE HALOGEN 8319-ET	USA 73455507						
T-SPRUCE HALOGEN 8324-ET	USA 73455512						
T-SPRUCE HALOGEN 8325-ET	USA 73455513						
T-SPRUCE HALOGEN 8430-ET	USA 73455618						
T-SPRUCE HEINZ 9610-ET	840003132612998						
T-SPRUCE HOTROD 9599-ET	840003132612987	C					
T-SPRUCE HOTROD 9600	840003132612988	C	C				
T-SPRUCE HOTROD 9613-ET	840003132613001						
T-SPRUCE HOTSHOT 9578-ET	840003132612966						
T-SPRUCE HOTSHOT 9612-ET	840003132613000					C	
T-SPRUCE HOTSHOT 9617-ET	840003132613005					C	
T-SPRUCE HOTSHOT 9618-ET	840003132613006						
T-SPRUCE HOTSHOT 9669-ET	840003132613057					C	
T-SPRUCE HUNTER 7045-ET	USA 71855208						
T-SPRUCE HUNTER 7062-ET	USA 71855225						
T-SPRUCE HUNTER 7116-ET	USA 71855279						
T-SPRUCE HYDRO 7623-ET	USA 72737678						1
T-SPRUCE HYDRO 8104-RED-ET	USA 73455292						
T-SPRUCE HYDRO 8268-ET	USA 73455456						1
T-SPRUCE HYDRO 8280-RED-ET	USA 73455468						1
T-SPRUCE JABIR 8152-ET	USA 73455340						
T-SPRUCE JABIR 8380-ET	USA 73455568						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE JABIR 8432	USA 73455620						
T-SPRUCE JACEY 8001-ET	USA 73455189						
T-SPRUCE JACEY 8004-ET	USA 73455192						
T-SPRUCE JACEY 8006-ET	USA 73455194						
T-SPRUCE JACEY 8120-ET	USA 73455308						
T-SPRUCE JACEY 8138-ET	USA 73455326						
T-SPRUCE JACEY 8151-ET	USA 73455339						
T-SPRUCE JACEY 8558	USA 74117852						1
T-SPRUCE JACKMAN 7577-ET	USA 72737632			C			
T-SPRUCE JACKMAN 7583-ET	USA 72737638			C			
T-SPRUCE JACKMAN 7601-ET	USA 72737656			C			
T-SPRUCE JAZZY 9322-ET	840003130845532						
T-SPRUCE JEDI 9679-ET	840003132613067					C	
T-SPRUCE JEDI 9680-ET	840003132613068					C	
T-SPRUCE JEDI 9705-ET	840003132613093					C	
T-SPRUCE JEDI 9714-ET	840003132613102					C	
T-SPRUCE JOESUPER 8845-ET	USA 74118139						
T-SPRUCE JOESUPER 8861-ET	USA 74118155						
T-SPRUCE JOESUPER 8867-ET	USA 74118161						
T-SPRUCE JOESUPER 8882-ET	USA 74118176						
T-SPRUCE JOESUPER 8981	USA 74118275						
T-SPRUCE JOESUPER 9075	840003130845285						
T-SPRUCE JOSETTE-ET	USA 74118157						
T-SPRUCE JOSUPER 205-ET	840003129016126			C			
T-SPRUCE JOSUPER 9166-ET	840003130845376						
T-SPRUCE JOSUPER 9211-ET	840003130845421						
T-SPRUCE KADO 8323-ET	USA 73455511						
T-SPRUCE KADO 8338-ET	USA 73455526						
T-SPRUCE KINGBOY 8599-ET	USA 74117893						
T-SPRUCE KINGBOY 8601-ET	USA 74117895						
T-SPRUCE KINGBOY 8875-ET	USA 74118169						
T-SPRUCE KINGBOY 8998-ET	USA 74118292						
T-SPRUCE KINGBOY 9022-ET	840003130845232						
T-SPRUCE KINGBOY 9056-ETS	840003130845266						
T-SPRUCE KINGBOY 9057-ETS	840003130845267						
T-SPRUCE KINGBOY 9086-ET	840003130845296						
T-SPRUCE KINGBOY 9102-ET	840003130845312						
T-SPRUCE KINGBOY 9106-ET	840003130845316						
T-SPRUCE KINGBOY DEPP-ET	840003128057757						
T-SPRUCE KNGBOY DELORIA-ET	840003128057752						
T-SPRUCE KRUNCH 8027	USA 73455215						
T-SPRUCE LADD 7138	USA 71855301					C	1
T-SPRUCE LADD 9150-RED	840003130845360						
T-SPRUCE LAR 4602-RED-ET	840003009697791		C				
T-SPRUCE LAR 4615-RED-ET	840003009697804						3

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE LATIMER 7407-ET	USA 71855570						
T-SPRUCE LATIMER 7430-ET	USA 71855593						1
T-SPRUCE LATIMER 7434-ET	USA 71855597						
T-SPRUCE LAYLA CRI-ET	USA 72115649					C	
T-SPRUCE LEXOR 7234-ET	USA 71855397						
T-SPRUCE LEXOR 7269-ET	USA 71855432						
T-SPRUCE LEXOR 7279-ET	USA 71855442					C	
T-SPRUCE LEXOR 7665-ET	USA 72737720						
T-SPRUCE LEXOR 7745-ET	USA 72737800						
T-SPRUCE LEXOR 7751-ET	USA 72737806						
T-SPRUCE LGOLD 7859-ET	USA 72737914						
T-SPRUCE LGOLD 7861-ET	USA 72737916			C			
T-SPRUCE LGOLD 7862-ET	USA 72737917						
T-SPRUCE LGOLD 7863-ET	USA 72737918						
T-SPRUCE LGOLD 7868-ET	USA 72737923			C			
T-SPRUCE LGOLD 7871-ET	USA 72737926						
T-SPRUCE LGOLD 7878-ET	USA 72737933						
T-SPRUCE LGOLD 7883-ET	USA 72737938						
T-SPRUCE LGOLD 7885-ET	USA 72737940						
T-SPRUCE LGOLD 7891-ET	USA 72737946						
T-SPRUCE LGOLD 7922-ET	USA 72737977						
T-SPRUCE LGOLD 7924-ET	USA 72737979						
T-SPRUCE LGOLD 7930-ET	USA 72737985						
T-SPRUCE LGOLD 7933-ET	USA 72737988						
T-SPRUCE LITHIUM 7274-ET	USA 71855437						
T-SPRUCE LITHIUM 7337-ET	USA 71855500						
T-SPRUCE LITHIUM 7341-ET	USA 71855504						
T-SPRUCE LITHIUM 7362-ET	USA 71855525						
T-SPRUCE LITHIUM 7366-ET	USA 71855529						
T-SPRUCE LITHIUM 7367-ET	USA 71855530						
T-SPRUCE LITHIUM 7375-ET	USA 71855538						
T-SPRUCE LITHIUM 7397	USA 71855560						
T-SPRUCE LITHIUM 7464	USA 71855627						
T-SPRUCE LITHIUM 7491	USA 71855654						
T-SPRUCE MACK 7830-ET	USA 72737885						
T-SPRUCE MACK 7839-ET	USA 72737894						
T-SPRUCE MAGICDAY 8370-ET	USA 73455558					C	
T-SPRUCE MAGICDAY 8384-ET	USA 73455572					C	
T-SPRUCE MAGICDAY 8387-ET	USA 73455575						
T-SPRUCE MAGICDAY 8392-ET	USA 73455580					C	
T-SPRUCE MAN-P 8378-ET	USA 73455566						
T-SPRUCE MAN-P 8473-RED-ET	USA 73455661						
T-SPRUCE MAN-P 8488-ET	USA 73455676						
T-SPRUCE MARDI GRAS 8585-ET	USA 74117879						
T-SPRUCE MARTY 9493-ET	840003130845703						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE MARTY 9502-ET	840003132612890						
T-SPRUCE MARTY 9517-ET	840003132612905						
T-SPRUCE MAURICE 7290-ET	USA 71855453						
T-SPRUCE MAURICE 7293-ET	USA 71855456					C	
T-SPRUCE MAURICE 7294-ET	USA 71855457					C	
T-SPRUCE MAURICE 7299-ET	USA 71855462					C	
T-SPRUCE MAURICE 7308-ET	USA 71855471					C	
T-SPRUCE MAURICE 7731	USA 72737786						
T-SPRUCE MAYFIELD 7251-ET	USA 71855414			C			
T-SPRUCE MAYFIELD 7255-ET	USA 71855418						
T-SPRUCE MAYFIELD 7256-ET	USA 71855419						
T-SPRUCE MAYFIELD 7257-ET	USA 71855420						
T-SPRUCE MAYFIELD 7280-ET	USA 71855443			C			
T-SPRUCE MAYFIELD 7286-ET	USA 71855449						
T-SPRUCE MCCUTCHEN 7215-ET	USA 71855378						
T-SPRUCE MEGASIRE 8613-ET	USA 74117907						
T-SPRUCE MEGASIRE 8615-ET	USA 74117909					C	
T-SPRUCE MEGASIRE 8677-ET	USA 74117971						
T-SPRUCE MEGASIRE 9124	840003130845334						
T-SPRUCE MG QUEEN A 1318-ET	USA 73178791						
T-SPRUCE MILES 7805-ET	USA 72737860						
T-SPRUCE MILES 7818-ET	USA 72737873						1
T-SPRUCE MILES 8008-ET	USA 73455196						
T-SPRUCE MILES 8728	USA 74118022						
T-SPRUCE MILES 8839	USA 74118133						
T-SPRUCE MILES 8880	USA 74118174						
T-SPRUCE MISSOURI 9067	840003130845277						
T-SPRUCE MIXER 7106-ET	USA 71855269						
T-SPRUCE MIXER 7127-ET	USA 71855290						
T-SPRUCE MIXER 7156-ET	USA 71855319						
T-SPRUCE MIXER 7157-ET	USA 71855320						
T-SPRUCE MIXER 7161-ET	USA 71855324						
T-SPRUCE MOGUL 7190-ET	USA 71855353			C			
T-SPRUCE MOGUL 7204-ET	USA 71855367						
T-SPRUCE MOGUL 7205-ET	USA 71855368						
T-SPRUCE MOGUL 7219-ET	USA 71855382						
T-SPRUCE MOGUL 7247-ET	USA 71855410						1
T-SPRUCE MOGUL 7260-ET	USA 71855423						1
T-SPRUCE MOGUL 7272-ET	USA 71855435						1
T-SPRUCE MOGUL 7275	USA 71855438			C			
T-SPRUCE MONTEREY 8851-ET	USA 74118145						
T-SPRUCE MONTEREY 8932-ET	USA 74118226						
T-SPRUCE MONTROSS 8366-ET	USA 73455554						
T-SPRUCE MONTROSS 8367-ET	USA 73455555						
T-SPRUCE MONTROSS 8371-ET	USA 73455559						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE MONTROSS 8404-ET	USA 73455592						
T-SPRUCE MORGAN 7560-ET	USA 72737615					C	
T-SPRUCE MUCHO 7923-ET	USA 72737978						
T-SPRUCE MUCHO 7988-ET	USA 72738043			C			
T-SPRUCE MUCHO 7995-ET	USA 72738050			C			
T-SPRUCE MUCHO 8484	USA 73455672						
T-SPRUCE NOMINEE 8397-ET	USA 73455585						
T-SPRUCE NUMERO UNO 7165-ET	USA 71855328						
T-SPRUCE NUMERO UNO 7297-ET	USA 71855460						
T-SPRUCE NUMERO UNO 7311-ET	USA 71855474						1
T-SPRUCE NUMERO UNO 7316-ET	USA 71855479						
T-SPRUCE NUMERO UNO 7317-ET	USA 71855480						
T-SPRUCE NUMERO UNO 7322-ET	USA 71855485						
T-SPRUCE NUMERO UNO 7328-ET	USA 71855491						
T-SPRUCE NUMERO UNO 7329-ET	USA 71855492						
T-SPRUCE O-COSMO 7241-ET	USA 71855404						
T-SPRUCE O-COSMO 7245-ET	USA 71855408						
T-SPRUCE O-COSMO 7268-ET	USA 71855431						
T-SPRUCE O-COSMO 7270-ET	USA 71855433						
T-SPRUCE O-COSMO 7395-ET	USA 71855558						
T-SPRUCE O-COSMO 7431-ET	USA 71855594						
T-SPRUCE O-COSMO 8026	USA 73455214						
T-SPRUCE OAK 7651-ET	USA 72737706						
T-SPRUCE OAK 7673-ET	USA 72737728						
T-SPRUCE OAK 7816-ET	USA 72737871						
T-SPRUCE OAK 7969-ET	USA 72738024						
T-SPRUCE OAK 8011-ET	USA 73455199						
T-SPRUCE OAK 8178	USA 73455366						
T-SPRUCE OAK 8191	USA 73455379						
T-SPRUCE PARISH 7339-ET	USA 71855502						
T-SPRUCE PARTYROCK 8499-ET	USA 73455687						
T-SPRUCE PETRONE 7028-ET	USA 71855191						
T-SPRUCE PETRONE 7029-ET	USA 71855192						
T-SPRUCE PETRONE 7030-ET	USA 71855193					C	
T-SPRUCE PETRONE 8272	USA 73455460						
T-SPRUCE PETRONE 8712	USA 74118006						
T-SPRUCE PONDER 8375-ET	USA 73455563						
T-SPRUCE PONDER 8424-ET	USA 73455612						
T-SPRUCE POWERBALL 9301-ET	840003130845511						1
T-SPRUCE PREDESTINE 7627-ET	USA 72737682						3
T-SPRUCE PREDESTINE 7638-ET	USA 72737693						3
T-SPRUCE PREDESTINE 7991	USA 72738046			C			3
T-SPRUCE PREDESTINE 8165	USA 73455353						3
T-SPRUCE PROFIT 206-ET	840003133370926						
T-SPRUCE PROFIT 9323-ET	840003130845533						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE PROFIT 9326-ET	840003130845536						
T-SPRUCE PROFIT 9330-ET	840003130845540						
T-SPRUCE PROFIT 9335-ET	840003130845545						
T-SPRUCE PROFIT 9336-ET	840003130845546						
T-SPRUCE PROFIT 9345-ET	840003130845555						
T-SPRUCE PROFIT 9356-ET	840003130845566						
T-SPRUCE PROFIT 9362-ET	840003130845572						
T-SPRUCE PROFIT 9364-ET	840003130845574						
T-SPRUCE PROFIT 9365-ET	840003130845575						
T-SPRUCE PROFIT 9373-ET	840003130845583						
T-SPRUCE PROFIT 9383-ET	840003130845593						
T-SPRUCE PROFIT 9424-ET	840003130845634						
T-SPRUCE PROFIT 9443-ET	840003130845653						
T-SPRUCE PROFIT 9445-ET	840003130845655						
T-SPRUCE PROFIT 9448-ET	840003130845658						
T-SPRUCE PTRN SATIN CRI-ET	840003011817117						
T-SPRUCE PUNCH 7191-ET	USA 71855354						
T-SPRUCE RACER 8510-ET	USA 74117804						
T-SPRUCE RACER 8514-ET	USA 74117808						
T-SPRUCE RACER 8515-ET	USA 74117809						
T-SPRUCE RACER 8516-ET	USA 74117810						
T-SPRUCE RACER 8538-ET	USA 74117832						
T-SPRUCE RACER 8570-ET	USA 74117864						
T-SPRUCE RACER 8680-ET	USA 74117974						
T-SPRUCE RACER 8682-ET	USA 74117976						
T-SPRUCE RACER 8686-ET	USA 74117980						
T-SPRUCE RACER 8691-ET	USA 74117985						
T-SPRUCE RACER 8705	USA 74117999						
T-SPRUCE RACER 8786-ET	USA 74118080						
T-SPRUCE REFLECTOR 8476-ET	USA 73455664						
T-SPRUCE REFLECTOR 8480-ET	USA 73455668						
T-SPRUCE RELIEF 7556-RED-ET	USA 72737611						
T-SPRUCE RELIEF 7561-RED-ET	USA 72737616						
T-SPRUCE RELIEF 7563-RED-ET	USA 72737618						
T-SPRUCE RELIEF P 7420	USA 71855583						
T-SPRUCE RELIEF P 7421	USA 71855584						
T-SPRUCE RELIEF P 7427-ET	USA 71855590						
T-SPRUCE RELIEF P 7565-ET	USA 72737620						
T-SPRUCE ROCKY 8351-ET	USA 73455539						
T-SPRUCE ROCKY 8360-ET	USA 73455548						
T-SPRUCE ROCKY 8361-ET	USA 73455549						
T-SPRUCE ROCKY 8455-ET	USA 73455643						
T-SPRUCE RODGERS 8210-ET	USA 73455398						
T-SPRUCE RODGERS 8214-ET	USA 73455402						
T-SPRUCE RUBICON 9048	840003130845258						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE RUBICON 9453-ET	840003130845663						
T-SPRUCE RUBICON 9458-ET	840003130845668						
T-SPRUCE SAL 7879-ET	USA 72737934			C		C	
T-SPRUCE SAL 7884-ET	USA 72737939						
T-SPRUCE SAL 7903-ET	USA 72737958					C	
T-SPRUCE SAL 8031-ET	USA 73455219						
T-SPRUCE SAL 8103-ET	USA 73455291						
T-SPRUCE SAVE 8382-ET	USA 73455570						
T-SPRUCE SAVE 8412-ET	USA 73455600						
T-SPRUCE SHAN 7542-ET	USA 72737597						
T-SPRUCE SHAN 7584-ET	USA 72737639						
T-SPRUCE SHAN 7587-ET	USA 72737642						
T-SPRUCE SHAN 7590-ET	USA 72737645						
T-SPRUCE SHAN 7596-ET	USA 72737651						
T-SPRUCE SHAN 7597-ET	USA 72737652						
T-SPRUCE SHAN 7608-ET	USA 72737663						
T-SPRUCE SHAN 7616-ET	USA 72737671						
T-SPRUCE SHAN 7617-ET	USA 72737672						
T-SPRUCE SHAN 7661-ET	USA 72737716						
T-SPRUCE SHAN 7688-ET	USA 72737743						
T-SPRUCE SHAN 7690-ET	USA 72737745						
T-SPRUCE SHAN 7693-ET	USA 72737748						
T-SPRUCE SHAN 7695-ET	USA 72737750						
T-SPRUCE SHAN 7699-ET	USA 72737754						
T-SPRUCE SHAN 7701-ET	USA 72737756						
T-SPRUCE SHAN 7712-ET	USA 72737767						
T-SPRUCE SHAN 7748	USA 72737803						
T-SPRUCE SHEP 9541-ET	840003132612929						
T-SPRUCE SHERIFF 8982-ET	USA 74118276						
T-SPRUCE SHERIFF 9007-ET	840003130845217						
T-SPRUCE SHERIFF 9010-ET	840003130845220					C	
T-SPRUCE SHERIFF 9027-ET	840003130845237						
T-SPRUCE SHERIFF 9028-ET	840003130845238						
T-SPRUCE SHERIFF 9035-ET	840003130845245						
T-SPRUCE SHERIFF 9036-ET	840003130845246						
T-SPRUCE SHERIFF 9066-ET	840003130845276						
T-SPRUCE SHERIFF 9068-ET	840003130845278						
T-SPRUCE SHERIFF 9073-ET	840003130845283						
T-SPRUCE SHERIFF 9082-ET	840003130845292						
T-SPRUCE SHOTGLASS 7515	USA 72737570					C	
T-SPRUCE SHOTGLASS 7521-ET	USA 72737576						
T-SPRUCE SHOTGLASS 7538	USA 72737593						
T-SPRUCE SHOTGLASS 7676-ET	USA 72737731						
T-SPRUCE SHOTGLASS 7780-ET	USA 72737835						
T-SPRUCE SHOW 7346-RED-ET	USA 71855509						1

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE SHOW 7357-RED-ET	USA 71855520						
T-SPRUCE SHOWDOWN 7356-ET	USA 71855519						
T-SPRUCE SHOWDOWN 7364-ET	USA 71855527						
T-SPRUCE SILVER 9256-ET	840003130845466						
T-SPRUCE SILVER 9269-ET	840003130845479						
T-SPRUCE SILVER 9278-ET	840003130845488						
T-SPRUCE SILVER 9280-ET	840003130845490						
T-SPRUCE SILVER 9281-ET	840003130845491						
T-SPRUCE SILVER 9295-ET	840003130845505						
T-SPRUCE SILVER 9303-ET	840003130845513						
T-SPRUCE SJC LIZ CRI-ET	840003011817215						
T-SPRUCE SNOWMOBIL 7646-ET	USA 72737701			C			
T-SPRUCE SOCRATES 9416	840003130845626						
T-SPRUCE SPRING 9208-ET	840003130845418						
T-SPRUCE SPRING 9232-ET	840003130845442						
T-SPRUCE STERLING 7729	USA 72737784						
T-SPRUCE STYLE P 8002-ET	USA 73455190						
T-SPRUCE STYLE P 8005-ET	USA 73455193						
T-SPRUCE SUPERSHOT 200-ET	840003128769198						
T-SPRUCE SUPERSHOT 201-ET	840003128769138						
T-SPRUCE SUPERSHOT 202-ET	840003128769140						
T-SPRUCE SUPERSHOT 204-ET	840003129016362						
T-SPRUCE SUPERSHOT 8794-ET	USA 74118088						
T-SPRUCE SUPERSHOT 8826-ET	USA 74118120						
T-SPRUCE SUPERSHOT 8962-ET	USA 74118256						
T-SPRUCE SUPERSHOT 8963-ET	USA 74118257						
T-SPRUCE SUPERSHOT 8976-ET	USA 74118270						
T-SPRUCE SUPERSHOT 8980-ET	USA 74118274						
T-SPRUCE SUPERSHOT 8984-ET	USA 74118278						
T-SPRUCE SUPERSHOT 9320-ET	840003130845530						
T-SPRUCE SUPERSHOT 9325-ET	840003130845535						
T-SPRUCE SUPERSHOT 9337-ET	840003130845547						
T-SPRUCE SUPERSHOT 9338-ET	840003130845548						
T-SPRUCE SUPERSHOT 9341-ET	840003130845551						
T-SPRUCE SUPERSHOT 9343-ET	840003130845553						
T-SPRUCE SUPERSHOT 9347-ET	840003130845557						
T-SPRUCE SUPERSIRE 7323-ET	USA 71855486						
T-SPRUCE SUPERSIRE 7334-ET	USA 71855497						
T-SPRUCE SUPERSIRE 7335-ET	USA 71855498						
T-SPRUCE SUPERSIRE 7348-ET	USA 71855511						
T-SPRUCE SUPERSIRE 7353-ET	USA 71855516						
T-SPRUCE SUPERSIRE 7472	USA 71855635						
T-SPRUCE SUPERSIRE 7523-ET	USA 72737578						
T-SPRUCE SUPERSIRE 7527-ET	USA 72737582						
T-SPRUCE SUPERSIRE 8775	USA 74118069						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
T-SPRUCE SUPERSIRE 8831	USA 74118125			C			
T-SPRUCE SUPERSIRE 8924	USA 74118218			C			
T-SPRUCE SUPERSIRE 9216	840003130845426						
T-SPRUCE SUPLEX 7358-ET	USA 71855521						
T-SPRUCE TANGO 8217	USA 73455405		C				
T-SPRUCE TAPE 7020-ET	USA 71855183					C	
T-SPRUCE TATUM 8587-ET	USA 74117881						
T-SPRUCE TATUM 8622-ET	USA 74117916		C			C	
T-SPRUCE TOPROCK 7776-ET	USA 72737831			C			
T-SPRUCE TOPROCK 8457	USA 73455645						
T-SPRUCE VOTTO 8707-ET	USA 74118001						
T-SPRUCE VOTTO 8715-ET	USA 74118009						
T-SPRUCE VOTTO 9332-ET	840003130845542						
T-SPRUCE WILD BEAST 8444	USA 73455632						
T-SPRUCE WILLPOWER 8156-ET	USA 73455344	C					
T-SPRUCE WILLPOWER 8163-ET	USA 73455351	C					
T-SPRUCE WILLPOWER 8177-ET	USA 73455365	C					1
T-TRIPLE-T ATWOOD LEANN	USA 140782495						
T-TRIPLE-T LAVERNE	USA 70676073						1
T-TRIPLE-T PANSY-ET	840003012554381						1
T-TRIPLE-T PREMIUM-ET	USA 71435077						
T-TRIPLE-T-I DURHAM POPPI	CAN 11031671						1
T-WAY M-O-M MARTHA 1456	USA 73153800						
TA-RO-LEE ALXNDER BEEBEE-TW	USA 70472429						
TA-RO-LEE BOLTON LADY-ET	USA 139689912	C					1
TA-RO-LEE BOLTON LOLLY-ET	USA 139689930						1
TA-RO-LEE JEEVES 2154	USA 70472438						
TA-RO-LEE LATHORITY MEL	USA 70472445						1
TA-RO-LEE PLANET LOUELA	USA 70472437	C					
TABEA-ET	DEU 535821485						
TADELE BRAXTON L-IRENE	USA 141455916						
TAFT-ACRES GENOMICPRO 60473	840003010364220						
TAFT-ACRES LOBERRY 61390	840003010365137						
TAFT-ACRES MOONRAY 61300	840003010365047						
TAFT-ACRES OTTO 609	USA 71956145						
TAFT-ACRES ROSWELL 591	USA 71956127			C		C	
TAFT-ACRES ST EVEREST 60350	840003010364097						
TAFT-ACRES SYMPATICO 692	USA 71956228						
TAG-LANE 10005 CHEVY 6818	840003126481201						
TAG-LANE 10006 CABRIO-TW	840003126481202						
TAG-LANE 10007 CABRIO-TW	840003126481203						
TAG-LANE 10010 RODGERS 8335	840003126481206						
TAG-LANE 10011 HALOGEN 8842	840003126481207						
TAG-LANE 10013 DONTEL 7878	840003126481209						
TAG-LANE 10015 CABRIO 8696	840003126481211						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 10016 JOSU 8901-ET	840003126481212						
TAG-LANE 10019 CABRIO 8280	840003126481215						
TAG-LANE 10020 RODGERS 8116	840003126481216						
TAG-LANE 10021 CABRIO 8879	840003126481217						
TAG-LANE 10022 RODGERS 8846	840003126481218						
TAG-LANE 10023 RODGERS 8873	840003126481219						
TAG-LANE 10025 MILKSHA 8201	840003126481221						
TAG-LANE 10030 CABRIO 7577	840003126481226						
TAG-LANE 10033 RACER 8705	840003126481229						
TAG-LANE 10035 RACER 8895	840003126481231						
TAG-LANE 10036 RODGERS 8872	840003126481232						
TAG-LANE 10043 JABIR8357-ET	840003126481239						
TAG-LANE 10048 NIRVANA 8863	840003126481244						
TAG-LANE 10049 JOSUPER 8773	840003126481245						
TAG-LANE 10050 RODGERS 8817	840003126481246						
TAG-LANE 10054 RODGERS 8794	840003126481250						
TAG-LANE 10055 DONTEL 8781	840003126481251						
TAG-LANE 10060 DONTEL 8831	840003126481256				C		
TAG-LANE 10064 CABRIO 8748	840003126481260						
TAG-LANE 10066 RACER 8847	840003126481262						
TAG-LANE 10074 RACER 8930	840003126481270						
TAG-LANE 10076 RODGERS 7799	840003126481272						
TAG-LANE 10077 RODGERS 8195	840003126481273						
TAG-LANE 10079 DONTEL 8774	840003126481275						
TAG-LANE 10081 DONTEL 8823	840003126481277			C			
TAG-LANE 10083 BOMBERO 8901	840003126481279						
TAG-LANE 10117 RACER 8777	840003128609570						
TAG-LANE 10121 DONTEL 8166	840003128609566						
TAG-LANE 10122 RACER 8945	840003128609565						
TAG-LANE 10127 DELTA 8250	840003128609560						
TAG-LANE 10131 DENVER 8157	840003128609556						
TAG-LANE 10134 MIDNIT 8852	840003128609553						
TAG-LANE 10153 DELTA 8376	840003128609534			C			
TAG-LANE 10155 DELTA 8341	840003128609532						
TAG-LANE 10157 DENVER 8436	840003128609530						
TAG-LANE 10161 BOMBE7505-ET	840003128609526						
TAG-LANE 10164 DELTA 8417	840003128609523			C			
TAG-LANE 10168 8851	840003128609519			C			
TAG-LANE 10173 BOMBE7505-ET	840003128609514						
TAG-LANE 10186 BALISTO 8808	840003128609501						
TAG-LANE 10206 DELTA 8446	840003128609481						
TAG-LANE 10210 DELTA 8487	840003128609477						
TAG-LANE 10211 BALISTO 9005	840003128609476						
TAG-LANE 10212 RODGERS 8972	840003128609475						
TAG-LANE 10221 DELTA 8511	840003128609466						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 10224 DREAMWEA8378	840003128609463						
TAG-LANE 10226 DENVER 8495	840003128609461						
TAG-LANE 10231 DREAMWEA9079	840003128609456						
TAG-LANE 10245 DONTEL 7847	840003128609442						
TAG-LANE 10246 SUPERS 7776	840003128609441						
TAG-LANE 10251 TUFFENNF7975	840003128609436						
TAG-LANE 10253 TROY 8963	840003128609434						
TAG-LANE 10266 STOIC8981-ET	840003128609421						
TAG-LANE 10267 DONTEL 9070	840003128609420						
TAG-LANE 10271 COMMAND7444	840003128609416						
TAG-LANE 10277 DENVER 8149	840003128609410						
TAG-LANE 10278 DELTA 8523	840003128609409						
TAG-LANE 10280 MONTROSS8331	840003128609407						
TAG-LANE 10292 SILVE9095-ET	840003128609395					C	
TAG-LANE 10299 RODGERS 9098	840003128609388			C			
TAG-LANE 10303 JOSUPER 9023	840003129805499						
TAG-LANE 10313 JOSUPER 9020	840003129805509						
TAG-LANE 10322 JOSUPER 8888	840003129805518						
TAG-LANE 10330 JOSUPER 9146	840003129805526						
TAG-LANE 10331 RODGERS 7474	840003129805527						
TAG-LANE 10332 JOSUPER 9081	840003129805528						
TAG-LANE 10335 JOSUPER 9024	840003129805531						
TAG-LANE 10337 JOSUPER 8602	840003129805533			C			
TAG-LANE 10362 JOSUPER 8567	840003129805558						
TAG-LANE 10363 JOSUPER 9128	840003129805559						
TAG-LANE 10367 JOSUPER 9086	840003129805563						
TAG-LANE 10369 SILVER 8964	840003129805565						
TAG-LANE 10371 JOSUPER 8551	840003129805567						
TAG-LANE 10373 MONTROSS8556	840003129805569						
TAG-LANE 10389 MONTROS 8546	840003129805585						
TAG-LANE 10392 JOSUPER 9101	840003129805588						
TAG-LANE 10396 YODER 8317	840003129805592						
TAG-LANE 10397 CASPIAN 9018	840003129805593						
TAG-LANE 10400 BOAST 9172	840003129805596						
TAG-LANE 10401 JOSUPER 7832	840003129805597						3
TAG-LANE 10403 JOSUPER 8488	840003129805599						
TAG-LANE 10407 SILVER 9095	840003129805603						
TAG-LANE 10412 DONTEL 8648	840003129805608			C			
TAG-LANE 10417 YODER 9170	840003129805613						
TAG-LANE 10419 CALIB 8430	840003129805615						
TAG-LANE 10420 MOTRS 8082	840003129805616						
TAG-LANE 10424 BAYO 7274	840003129805620						
TAG-LANE 10427 BOAST 9205	840003129805623						
TAG-LANE 10430 MOTRS 7945	840003129805626						
TAG-LANE 10431 JOSUPER 9162	840003129805627						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 10433 YODER 9133	840003129805629					C	
TAG-LANE 10434 JOSUPER 6745	840003129805630						
TAG-LANE 10436 JOSUPER 9126	840003129805632						
TAG-LANE 10438 BAYO 8600	840003129805634						
TAG-LANE 10440 MOTRS8981-ET	840003129805636						
TAG-LANE 10444 MOTRS 8492	840003129805640						
TAG-LANE 10445 YODER 8580	840003129805641						
TAG-LANE 10450 BAYO 7448	840003129805646						
TAG-LANE 10451 JOSUPER 9120	840003129805647						
TAG-LANE 10453 JOSUPER 9103	840003129805649						
TAG-LANE 10454 BAYO 8538	840003129805650						
TAG-LANE 10462 MOTRS 8421	840003129805658						
TAG-LANE 10463 YODER 9116	840003129805659						
TAG-LANE 10464 JOSUP8401-ET	840003129805660						
TAG-LANE 10465 JOSUPER 9123	840003129805661						
TAG-LANE 10467 JOSUP8401-ET	840003129805663						
TAG-LANE 6700 FROSTY 6188	USA 64822699						
TAG-LANE 7250 PLANET 6381	USA 68977276						
TAG-LANE 7300 PLANET 6203	USA 68977326						
TAG-LANE 7339 PLANET 6430	USA 68977365						
TAG-LANE 7346 PLANET 2982	USA 68977372						
TAG-LANE 7351 MICHAEL 6613	USA 68977377						
TAG-LANE 7362 PLANET 6784	USA 68977388						
TAG-LANE 7366 PLANET 6418	USA 68977392			C			
TAG-LANE 7574 PLANET 6848	USA 69706978						
TAG-LANE 7599 CASSINO 6702	USA 69707003						
TAG-LANE 7632 RUSSELL 6495	USA 69707036						
TAG-LANE 7639 RUSSELL 6562	USA 69707043						
TAG-LANE 7710 STRAT 6879	USA 70123349						
TAG-LANE 7724 FOCUS 6907	USA 70123363						
TAG-LANE 7741 DORCY 6477	USA 70123380						
TAG-LANE 7747 PLANET 6979	USA 70123386						
TAG-LANE 7756 MORELAND 6925	USA 70123395						
TAG-LANE 7772 MORELAND 6912	USA 70123411						
TAG-LANE 7795 MORELAND 6952	USA 70123434						
TAG-LANE 7811 FREDDIE 6955	USA 70123450						
TAG-LANE 7814 BEACON 3213	USA 70123453						
TAG-LANE 7817 MORELAND 6989	USA 70123456						
TAG-LANE 7825 MORRELL 6894	USA 70123464						
TAG-LANE 7827 FREDDIE 6915	USA 70123466						
TAG-LANE 7832 FREDDIE 6996	USA 70123471						3
TAG-LANE 7852 FORK 4993	USA 70123491						
TAG-LANE 7866 MORRELL 6945	USA 70123505			C			
TAG-LANE 7895 OSMOND 6775	USA 70123534						
TAG-LANE 7911 TEMPO 3196	USA 70458474						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 7912 PARKER 3298	USA 70458475						
TAG-LANE 7914 PLANET 7011	USA 70458477						
TAG-LANE 7915 BRONCO 7032	USA 70458478						
TAG-LANE 7935 CHIP 7125	USA 70458498		C				
TAG-LANE 7969 PLANET 7022	USA 70458532						
TAG-LANE 7983 PARKER 6811	USA 70458546						
TAG-LANE 8002 FREDDIE 7020	USA 70458565						
TAG-LANE 8020 KAMIK 6698	USA 70458583						
TAG-LANE 8049 GARET 6441	USA 70458612						
TAG-LANE 8057 FREDDIE 7054	USA 70458620						
TAG-LANE 8100 IOTA 6665	USA 70953543	C					
TAG-LANE 8125 JARVIS 6248	USA 70953568						
TAG-LANE 8128 DOMINGO 7188	USA 70953571			C			
TAG-LANE 8137 CM 6851	USA 70953580			C			3
TAG-LANE 8159 JIVES 6695	USA 70953602						
TAG-LANE 8163 DOMINGO 7300	USA 70953606						
TAG-LANE 8170 JIVES 6874-TW	USA 70953613			C			
TAG-LANE 8172 JIVES 5930	USA 70953615						
TAG-LANE 8175 SHAMR 6861-ET	USA 70953618						
TAG-LANE 8181 TEMPO 7306	USA 70953624						
TAG-LANE 8199 DOBERMAN 7240	USA 70953642						
TAG-LANE 8207 ARM 7324-ET	USA 70953650						
TAG-LANE 8210 GARET 6594	USA 70953653						
TAG-LANE 8211 JIVES 6796-ET	USA 70953654	C					
TAG-LANE 8219 TEMPO 7299	USA 70953662						
TAG-LANE 8228 COBRA 7110	USA 70953671						
TAG-LANE 8230 COBRA 7360	USA 70953673			C			
TAG-LANE 8231 DOBERMAN 7274	USA 70953674						
TAG-LANE 8232 COBRA 6881	USA 70953675						
TAG-LANE 8237 COBRA 7329	USA 70953680			C			
TAG-LANE 8240 COBRA 7228	USA 70953683			C			
TAG-LANE 8241 JIVES 6571	USA 70953684						
TAG-LANE 8244 TEMPO 7386	USA 70953687						
TAG-LANE 8250 DUTCH 6658	USA 70953693						
TAG-LANE 8251 LEVI 7332-ET	USA 70953694			C			
TAG-LANE 8265 BEAU 7387-ET	USA 70953708						
TAG-LANE 8283 JOCK 7334	USA 70953726			C			
TAG-LANE 8284 LEVI 6535	USA 70953727						
TAG-LANE 8287 JIVES 6932	USA 70953730						
TAG-LANE 8288 YANO 6989	USA 70953731						
TAG-LANE 8298 O-STY 6763-ET	USA 70953741						
TAG-LANE 8299 ARMTG 7332-ET	USA 70953742						
TAG-LANE 8301 PLYERS 6864	USA 71337801						
TAG-LANE 8304 GONZO 6826	USA 71337804						
TAG-LANE 8308 YANO 6687	USA 71337808						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 8310 KARSTEN 7444	USA 71337810			C			
TAG-LANE 8316 KARIK 6562	USA 71337816						
TAG-LANE 8317 CM 6550	USA 71337817			C			
TAG-LANE 8321 O-STY 6987	USA 71337821						
TAG-LANE 8323 GONZO 6877	USA 71337823						
TAG-LANE 8328 GONZO 7296	USA 71337828						
TAG-LANE 8329 CM 7387-ET	USA 71337829						
TAG-LANE 8331 GONZO 6862	USA 71337831						
TAG-LANE 8333 GONZO 6964	USA 71337833						
TAG-LANE 8336 JOCK 7320	USA 71337836			C			
TAG-LANE 8339 JOCK 7431	USA 71337839			C			
TAG-LANE 8340 KARSTEN 7322	USA 71337840						
TAG-LANE 8342 GONZO 3157	USA 71337842						
TAG-LANE 8343 JOCK 7455	USA 71337843						
TAG-LANE 8344 JOCK 7339	USA 71337844						
TAG-LANE 8349 KARSTEN 7346	USA 71337849						
TAG-LANE 8350 BOOKEM 6900	USA 71337850			C			
TAG-LANE 8352 CM 6976	USA 71337852						
TAG-LANE 8355 MAUI 6381	USA 71337855						
TAG-LANE 8356 LEVI 6425	USA 71337856			C			
TAG-LANE 8357 MAUI 7241	USA 71337857						
TAG-LANE 8364 YANO 6915	USA 71337864						
TAG-LANE 8368 CM 6954	USA 71337868						
TAG-LANE 8378 LARGE 6767	USA 71337878						
TAG-LANE 8383 YANO 6767-ET	USA 71337883						
TAG-LANE 8384 LEVI 6945	USA 71337884						
TAG-LANE 8386 LEVI 6983	USA 71337886			C			
TAG-LANE 8390 SAMBO 7236	USA 71337890						
TAG-LANE 8391 YANO 6784	USA 71337891						
TAG-LANE 8392 YANO 6902	USA 71337892						
TAG-LANE 8398 FA-BO 7025	USA 71337898						
TAG-LANE 8400 FA-BO 6652-TW	USA 71337900						
TAG-LANE 8401 FA-BO 6652-TW	USA 71337901						
TAG-LANE 8404 MAUI 6680-TW	USA 71337904						
TAG-LANE 8412 CM 6633	USA 71337912			C			
TAG-LANE 8431 MAN2 6768	USA 71337931						
TAG-LANE 8433 FA-BO 7063	USA 71337933						
TAG-LANE 8439 FA-BO 6746	USA 71337939						
TAG-LANE 8445 ARGON 6955	USA 71337945						
TAG-LANE 8453 FA-BO 6995	USA 71337953						
TAG-LANE 8460 FA-BO 6962	USA 71337960						
TAG-LANE 8468 JOCK 7576	USA 71337968			C			
TAG-LANE 8472 ARGON 6486	USA 71337972						
TAG-LANE 8475 SHAMROCK 6771	USA 71337975						
TAG-LANE 8476 ARGON 6672	USA 71337976						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 8478 MAN2 7488	USA 71337978						
TAG-LANE 8482 GONZO 6990	USA 71337982						
TAG-LANE 8484 SHAM 6787-TW	USA 71337984						
TAG-LANE 8487 JOCK 7474	USA 71337987			C			
TAG-LANE 8488 SAMOA 7002	USA 71337988						
TAG-LANE 8490 O-STY 7330	USA 71337990			C			
TAG-LANE 8491 LEVI 7388	USA 71337991			C			
TAG-LANE 8492 SHAM 6753	USA 71337992						
TAG-LANE 8503 SUPERIOR 6857	USA 71702462						
TAG-LANE 8511 BEAU 7387-ET	USA 71702470						
TAG-LANE 8512 FA-BO 6845	USA 71702471						
TAG-LANE 8517 SHAM 3316-TW	USA 71702476						
TAG-LANE 8522 SHAM 6509	USA 71702481						
TAG-LANE 8523 CM 7566	USA 71702482						
TAG-LANE 8534 SAMOA 6809	USA 71702493						
TAG-LANE 8535 SHAM 6834	USA 71702494						
TAG-LANE 8541 SAMOA 7072	USA 71702500						
TAG-LANE 8545 SAMOA 1283	USA 71702504			C			
TAG-LANE 8546 SHAM 6825	USA 71702505						
TAG-LANE 8554 SAMOA 6906	USA 71702513			C			
TAG-LANE 8555 PERRY 7149	USA 71702514						
TAG-LANE 8562 SAMOA 6942	USA 71702521						
TAG-LANE 8563 SUDAN 7474-ET	USA 71702522			C			
TAG-LANE 8570 SHAM 7185	USA 71702529						
TAG-LANE 8575 CAMELOT 7507	USA 71702534						
TAG-LANE 8577 SHAM 6802	USA 71702536						
TAG-LANE 8578 LEVI 6441	USA 71702537						
TAG-LANE 8581 ARGON 6837	USA 71702540						
TAG-LANE 8582 PARADISE	USA 71702541						
TAG-LANE 8583 PARADISE-ET	USA 71702542						
TAG-LANE 8585 PARADISE-ET	USA 71702544						
TAG-LANE 8588 PARADISE-ET	USA 71702547						
TAG-LANE 8589 PARADISE-ET	USA 71702548						
TAG-LANE 8596 PARADISE-ET	USA 71702555						
TAG-LANE 8602 O-STY 7427	USA 71702561			C			
TAG-LANE 8603 S-S 7121	USA 71702562						
TAG-LANE 8604 PARADISE 7661	USA 71702563						
TAG-LANE 8615 EPIC 7622	USA 71702574	C					
TAG-LANE 8616 SHAM 6373	USA 71702575						
TAG-LANE 8617 LEVI 7402	USA 71702576						
TAG-LANE 8619 S-S 7234	USA 71702578						
TAG-LANE 8621 PLANET 6498	USA 71702580						
TAG-LANE 8624 CAMELOT 7616	USA 71702583						
TAG-LANE 8629 CAMELOT 7636	USA 71702588			C			
TAG-LANE 8631 ARGON 7031	USA 71702590						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 8636 S-S 1231	USA 71702595						
TAG-LANE 8641 S-S 7239	USA 71702600						
TAG-LANE 8645 GUNTHER 7615	USA 71702604						
TAG-LANE 8648 LEVI 7575	USA 71702607			C		C	
TAG-LANE 8649 PLANT 7487	USA 71702608						
TAG-LANE 8653 S-S 7184	USA 71702612						
TAG-LANE 8666 JIVES 7621	USA 71702625			C			
TAG-LANE 8667 S-S 3213	USA 71702626						
TAG-LANE 8672 S-S 3332	USA 71702631						
TAG-LANE 8678 PETRONE 7206	USA 71702637						
TAG-LANE 8679 MAURICE 7084	USA 71702638		C				
TAG-LANE 8684 MAURICE 6460	USA 71702643						
TAG-LANE 8686 MOGUL 6763	USA 71702645						
TAG-LANE 8688 PETRONE 6816	USA 71702647						
TAG-LANE 8689 DEAN 7702	USA 71702648						
TAG-LANE 8692 MOGUL 7245	USA 71702651						
TAG-LANE 8696 MAVEN 6204	USA 71702655						
TAG-LANE 8697 LEVI 7528	USA 71702656						
TAG-LANE 8698 PLANET 7666	USA 71702657						
TAG-LANE 8699 MAURICE 7270	USA 71702658						
TAG-LANE 8701 MOGUL 7293	USA 72044428						
TAG-LANE 8704 MAURICE 7085	USA 72044431						
TAG-LANE 8705 PETRONE 7706	USA 72044432						
TAG-LANE 8706 JIVES 7684	USA 72044433			C			
TAG-LANE 8707 MOGUL 6819	USA 72044434						
TAG-LANE 8710 PETRONE 6703	USA 72044437						
TAG-LANE 8714 MAVEN 6657	USA 72044441						
TAG-LANE 8716 MOGUL 7669-ET	USA 72044443						
TAG-LANE 8717 PETRONE 7151	USA 72044444						
TAG-LANE 8719 S-S 7040	USA 72044446						
TAG-LANE 8725 MAURICE 6673	USA 72044452						
TAG-LANE 8726 PETRONE 3362	USA 72044453						
TAG-LANE 8734 MOGUL 6150	USA 72044461						
TAG-LANE 8738 MAURICE 6298	USA 72044465						
TAG-LANE 8740 LAYNE 7574	USA 72044467						
TAG-LANE 8744 PETRONE 6678	USA 72044471						
TAG-LANE 8746 MAURICE 3174	USA 72044473						
TAG-LANE 8753 LAYNE 6752	USA 72044480						
TAG-LANE 8755 LAYNE 4964	USA 72044482						
TAG-LANE 8757 LAYNE 7299	USA 72044484						
TAG-LANE 8758 PETRONE 4957	USA 72044485						
TAG-LANE 8764 S-S 7317	USA 72044491						
TAG-LANE 8766 LAYNE 7133	USA 72044493						
TAG-LANE 8772 LEVI 7747	USA 72044499			C			
TAG-LANE 8773 DEAN 7505	USA 72044500						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 8777 MOGUL 1182	USA 72044504						
TAG-LANE 8778 ANDERSON 7539	USA 72044505					C	
TAG-LANE 8782 DEAN 7326	USA 72044509						
TAG-LANE 8784 CASUAL 7755	USA 72044511						
TAG-LANE 8787 DEAN 6910	USA 72044514						
TAG-LANE 8790 MOGUL 7384	USA 72044517						
TAG-LANE 8792 MOGUL 7212	USA 72044519						
TAG-LANE 8796 DEAN 7295	USA 72044523						
TAG-LANE 8801 PETRONE 7242	USA 72044528						
TAG-LANE 8802 DEAN 7110	USA 72044529						
TAG-LANE 8804 MOGUL 6777	USA 72044531						
TAG-LANE 8808 DEAN 7300	USA 72044535						
TAG-LANE 8811 PETRONE 6842	USA 72044538						
TAG-LANE 8813 MOGUL 7314	USA 72044540				C		
TAG-LANE 8817 MOGUL 6879	USA 72044544						
TAG-LANE 8822 MOGUL 6899	USA 72044549						
TAG-LANE 8828 DADDY 6698	USA 72044555		C				
TAG-LANE 8831 ISY 7188	USA 72044558				C		
TAG-LANE 8835 ANDERSON 7467	USA 72044562						
TAG-LANE 8836 LITHIUM 7334	USA 72044563						
TAG-LANE 8842 LITHIUM 7329	USA 72044569						
TAG-LANE 8844 PETRONE 3331	USA 72044571						
TAG-LANE 8853 PETRONE 7134	USA 72044580						
TAG-LANE 8863 LEVI 7444	USA 72044590						
TAG-LANE 8873 PLANET 7832	USA 72044600						
TAG-LANE 8875 LITHIUM 7328	USA 72044602						
TAG-LANE 8879 DEAN 7274	USA 72044606						
TAG-LANE 8888 COY ISY 6719	USA 72044615						
TAG-LANE 8901 MOGUL 7352	USA 72419201						
TAG-LANE 8903 COY ISY 6712	USA 72419203						
TAG-LANE 8908 COY ISY 7297	USA 72419208			C			
TAG-LANE 8910 COY ISY 7289	USA 72419210						
TAG-LANE 8911 SALE 6957	USA 72419211						
TAG-LANE 8915 COY ISY 6954	USA 72419215						
TAG-LANE 8918 LTHUM 7324-ET	USA 72419218						
TAG-LANE 8921 MAURICE 6430	USA 72419221						
TAG-LANE 8924 MAURICE 7382	USA 72419224						
TAG-LANE 8925 MAURICE 7333	USA 72419225						
TAG-LANE 8929 FREDDIE 7306	USA 72419229						
TAG-LANE 8931 LAYNE 6473	USA 72419231						
TAG-LANE 8935 ECYN ISY 7304	USA 72419235						
TAG-LANE 8937 LAYNE 7309	USA 72419237						
TAG-LANE 8939 LAYNE 6934	USA 72419239						
TAG-LANE 8943 FREDDIE 6932	USA 72419243						
TAG-LANE 8945 DENIM 7947	USA 72419245						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 8946 DENIM 7912	USA 72419246						
TAG-LANE 8948 LEVI	USA 72419248						
TAG-LANE 8951 FREDDIE 7943	USA 72419251						
TAG-LANE 8958 LITHIUM-ET	USA 72419258			C			
TAG-LANE 8962 DIESEL	USA 72419262	C					
TAG-LANE 8963 LITHIUM	USA 72419263						
TAG-LANE 8972 SUPERSIRE	USA 72419272						
TAG-LANE 8975 LITHIUM	USA 72419275						
TAG-LANE 8976 MAURICE	USA 72419276						
TAG-LANE 8977 UNO-ET	USA 72419277						3
TAG-LANE 8981 UNO-ET	USA 72419281						
TAG-LANE 8987 COY ISY	USA 72419287			C			
TAG-LANE 8993 DIESEL	USA 72419293			C			
TAG-LANE 8996 LITHIUM	USA 72419296			C			
TAG-LANE 9003 LITHIUM	USA 72419303						
TAG-LANE 9005 MASSEY	USA 72419305						
TAG-LANE 9008 SUPERSIRE	USA 72419308						
TAG-LANE 9033 MASSEY	USA 72419333						
TAG-LANE 9045 MASSEY	USA 72419345						
TAG-LANE 9056 MAURICE	USA 72419356						
TAG-LANE 9079 MAURICE	USA 72419379						
TAG-LANE 9082 MORGAN	USA 72419382						
TAG-LANE 9083 SHAN	USA 72419383						
TAG-LANE 9084 MORGAN	USA 72419384						
TAG-LANE 9086 MAURICE	USA 72419386						
TAG-LANE 9087 DENIM	USA 72419387						
TAG-LANE 9088 MORGAN	USA 72419388						
TAG-LANE 9089 GALAXY	USA 72419389						
TAG-LANE 9095 MORGAN	USA 72419395					C	
TAG-LANE 9096 GALAXY	USA 72419396			C			
TAG-LANE 9097 MASSEY	USA 72419397						
TAG-LANE 9098 SUPERSIRE	USA 72419398			C			
TAG-LANE 9099 MASSEY	USA 72419399						
TAG-LANE 9101 NUM UNO-ET	USA 72758334						
TAG-LANE 9103 MORGAN	USA 72758336					C	
TAG-LANE 9105 MAURICE	USA 72758338						
TAG-LANE 9108 MORGAN	USA 72758341						
TAG-LANE 9109 MORGAN	USA 72758342					C	
TAG-LANE 9110 MORGAN	USA 72758343					C	
TAG-LANE 9111 MORGAN	USA 72758344					C	
TAG-LANE 9114 SHAN	USA 72758347						
TAG-LANE 9122 DONATELLO	USA 72758355						
TAG-LANE 9124 MASSEY	USA 72758357						
TAG-LANE 9126 MASSEY	USA 72758359						
TAG-LANE 9129 JEROD	USA 72758362	C					

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9130 SHAN	USA 72758363						
TAG-LANE 9132 HEADLINER	USA 72758365	C					
TAG-LANE 9133 MORGAN	USA 72758366					C	
TAG-LANE 9137 GALAXY	USA 72758370						
TAG-LANE 9139 DENIM	USA 72758372	C					
TAG-LANE 9144 SHAN	USA 72758377						
TAG-LANE 9147 MORGAN-TW	USA 72758380			C			
TAG-LANE 9148 MORGAN-TW	USA 72758381					C	
TAG-LANE 9152 DIAMOND	USA 72758385						
TAG-LANE 9158 MORGAN	USA 72758391					C	
TAG-LANE 9166 DENIM	USA 72758399						
TAG-LANE 9172 MORGAN 6935	USA 72758405					C	
TAG-LANE 9174 MONARCH 6407	USA 72758407						
TAG-LANE 9177 GALAXY 7184	USA 72758410						
TAG-LANE 9179 MORGAN 6675	USA 72758412						
TAG-LANE 9180 SHAN 6772	USA 72758413						
TAG-LANE 9188 MASSEY 6442	USA 72758421						
TAG-LANE 9191 MONARCH 7548	USA 72758424						
TAG-LANE 9192 MONARCH 7234	USA 72758425						
TAG-LANE 9193 MOVIER 7561	USA 72758426						
TAG-LANE 9195 MONARCH 7487	USA 72758428						
TAG-LANE 9196 BRONO 7609	USA 72758429						
TAG-LANE 9203 MONARCH 6796	USA 72758436						
TAG-LANE 9204 MORGAN 7621	USA 72758437			C		C	
TAG-LANE 9205 MASSEY 7270	USA 72758438						
TAG-LANE 9206 GALAXY 7572	USA 72758439						
TAG-LANE 9214 MASSEY 7176	USA 72758447						
TAG-LANE 9216 GALAXY 7477	USA 72758449						
TAG-LANE 9218 BRONO 3332	USA 72758451						
TAG-LANE 9220 MONARCH 7426	USA 72758453						
TAG-LANE 9221 CASUAL 7632	USA 72758454						
TAG-LANE 9223 MONAR 6754-TW	USA 72758456						
TAG-LANE 9224 MASSEY 7293	USA 72758457						
TAG-LANE 9232 MOVIER 6906	USA 72758465						
TAG-LANE 9237 DENIM 8170	USA 72758470			C			
TAG-LANE 9238 AOAK 7324-ET	USA 72758471						
TAG-LANE 9242 BRONO 7701	USA 72758475						
TAG-LANE 9246 MASSEY 1296	USA 72758479		C				
TAG-LANE 9252 MCCUTC 6769	USA 72758485						
TAG-LANE 9256 SKYL 3304-TW	USA 72758489						
TAG-LANE 9257 SKYL 3304-TW	USA 72758490						
TAG-LANE 9261 GALAXY 6764	USA 72758494						
TAG-LANE 9267 SKYL 7893	USA 72758500						
TAG-LANE 9268 SUPERS 7663	USA 72758501						
TAG-LANE 9273 ZEUS 7616-ET	USA 72758506						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9274 KRUNCH 8119	USA 72758507						
TAG-LANE 9278 SKYL 6818	USA 72758511						
TAG-LANE 9281 SKYL 8107	USA 72758514						
TAG-LANE 9284 GALAXY 8134	USA 72758517						
TAG-LANE 9286 SKYL 8162	USA 72758519						
TAG-LANE 9293 MONARCH 8208	USA 72758526						
TAG-LANE 9296 SUPERS 1974	USA 72758529						
TAG-LANE 9298 BELUGA 7969	USA 72758531						
TAG-LANE 9301 ZEUS 7384	840003013773799	C					
TAG-LANE 9304 AOAK 8317-ET	840003013773802						
TAG-LANE 9306 RAINIER 8035	840003013773804						
TAG-LANE 9307 SUPERS 7993	840003013773805						
TAG-LANE 9314 PRED 8317-ET	840003013773812			C			3
TAG-LANE 9316 BELUGA-ET	840003013773814						
TAG-LANE 9318 CABRIO 8188	840003013773816						
TAG-LANE 9319 AOAK 8109	840003013773817						
TAG-LANE 9320 ELECTION 7480	840003013773818						
TAG-LANE 9321 SUPERS 8171	840003013773819						
TAG-LANE 9325 JACM 8175	840003013773823			C			
TAG-LANE 9326 BELUGA 7295	840003013773824			C			
TAG-LANE 9333 HEADLIN 3174	840003013773831						
TAG-LANE 9335 MONAR 6426	840003013773833			C			
TAG-LANE 9337 AOAK 8317-ET	840003013773835						
TAG-LANE 9339 AOAK 8102	840003013773837						
TAG-LANE 9340 JACM 8251	840003013773838			C			
TAG-LANE 9341 PRED 8317-ET	840003013773839			C			3
TAG-LANE 9343 OAK 7895-ET	840003013773841						
TAG-LANE 9344 PRED 8317-ET	840003013773842						3
TAG-LANE 9345 JACM 7738	840003013773843						
TAG-LANE 9346 SUPERS 7443	840003013773844						
TAG-LANE 9347 JACM 7505-ET	840003013773845						
TAG-LANE 9350 BELUGA 6673	840003013773848			C			
TAG-LANE 9351 BELUGA 7334	840003013773849						
TAG-LANE 9360 ELECTION 7370	840003013773858						
TAG-LANE 9366 SUPERS 7772	840003013773864						
TAG-LANE 9372 CABRIO 7799	840003013773870						
TAG-LANE 9373 BELUGA 7760	840003013773871			C			1
TAG-LANE 9374 CABRIO 7191	840003013773872						
TAG-LANE 9375 JACM 7732	840003013773873						
TAG-LANE 9376 SUPERS 7697	840003013773874						
TAG-LANE 9377 AOAK 8317-ET	840003013773875						
TAG-LANE 9382 CABRIO 8195	840003013773880						
TAG-LANE 9383 SUPERS 7822	840003013773881						
TAG-LANE 9384 CABRIO 7807	840003013773882						
TAG-LANE 9386 DREW 7852	840003013773884						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9388 CABRIO 7326	840003013773886						
TAG-LANE 9392 BELUGA 8219	840003013773890						
TAG-LANE 9394 LA-B 7505-ET	840003013773892						
TAG-LANE 9397 CABRIO 7797	840003013773895						
TAG-LANE 9398 LA-B 7505-ET	840003013773896						
TAG-LANE 9399 SUPERS 7827	840003013773897						
TAG-LANE 9401 CABRIO 7669	840003013773899						
TAG-LANE 9402 AMIGO 6538	840003013773900			C			
TAG-LANE 9406 CASU 8317-ET	840003013773904						
TAG-LANE 9407 LA-B 8328	840003013773905						
TAG-LANE 9410 CABRIO 7331	840003013773908						
TAG-LANE 9413 DENIM 8350	840003013773911						
TAG-LANE 9419 JACEY 7300-ET	840003013773917						
TAG-LANE 9423 DENIM 8422	840003013773921						
TAG-LANE 9424 JACM 7910	840003013773922			C			
TAG-LANE 9426 MORDEN 7706	840003013773924						
TAG-LANE 9428 AOAK 8236	840003013773926						
TAG-LANE 9430 SKYL 7771	840003013773928						
TAG-LANE 9432 DREW 7846	840003013773930						
TAG-LANE 9435 AOAK 8317-ET	840003013773933						
TAG-LANE 9436 DREW 7824	840003013773934					C	
TAG-LANE 9440 JEROD 8240	840003013773938			C			
TAG-LANE 9441 SKYL 6728-TW	840003013773939						
TAG-LANE 9442 SKYL 6728-TW	840003013773940						
TAG-LANE 9443 LA-B 8321	840003013773941						
TAG-LANE 9447 AOAK 8344-ET	840003013773945						
TAG-LANE 9448 CABRIO 6665	840003013773946						
TAG-LANE 9452 AOAK 8344-ET	840003013773950						
TAG-LANE 9453 SUPERS 7791	840003013773951						
TAG-LANE 9454 JACEY 8203	840003013773952						
TAG-LANE 9455 JEROD 7657	840003013773953						
TAG-LANE 9456 DENIM 8331	840003013773954						
TAG-LANE 9458 BALIS 8317-ET	840003013773956						
TAG-LANE 9460 BALIS 7832-ET	840003013773958						3
TAG-LANE 9461 BALIS 7832-ET	840003013773959						3
TAG-LANE 9462 CABRIO 8412	840003013773960						
TAG-LANE 9463 SKYL 7759	840003013773961			C			
TAG-LANE 9464 CABRIO 7830	840003013773962						
TAG-LANE 9467 RAINIER 6900	840003013773965			C			
TAG-LANE 9469 DREW 7839	840003013773967						
TAG-LANE 9475 CABRIO 8310	840003013773973						
TAG-LANE 9477 BALIS 7832-ET	840003013773975						
TAG-LANE 9480 CABRIO 8250	840003013773978						
TAG-LANE 9481 SKYL 6473	840003013773979						
TAG-LANE 9482 SUPERS 8398	840003013773980						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9487 JABIR 8343	840003013773985						
TAG-LANE 9489 JABIR 8364	840003013773987						
TAG-LANE 9496 JABIR 7467	840003013773994						
TAG-LANE 9497 SUPERS 8360	840003013773995						
TAG-LANE 9498 PRED 7113	840003013773996						
TAG-LANE 9499 JABIR 8329	840003013773997						
TAG-LANE 9500 RAINIER 7353	840003123701335						
TAG-LANE 9501 JABIR 8434	840003123701336						
TAG-LANE 9502 LA-B 8344-ET	840003123701337						
TAG-LANE 9504 DREW 7928-TW	840003123701339					C	
TAG-LANE 9505 DREW 7928-TW	840003123701340						
TAG-LANE 9507 JABIR 7300-ET	840003123701342						
TAG-LANE 9517 JABIR 8436	840003123701352						
TAG-LANE 9519 JABIR 8437	840003123701354						
TAG-LANE 9522 PRED 8417	840003123701357						3
TAG-LANE 9523 PRED 8446	840003123701358						
TAG-LANE 9525 FLYN 7943	840003123701360						
TAG-LANE 9529 MOONRAY 7033	840003123701364	C					
TAG-LANE 9539 MOONRAY 7847	840003123701374					C	
TAG-LANE 9540 DREW 7820	840003123701375					C	
TAG-LANE 9541 SKYL 7886	840003123701376						
TAG-LANE 9542 DREW 7841	840003123701377					C	
TAG-LANE 9543 DREW 7906	840003123701378			C		C	
TAG-LANE 9544 JABIR 8357	840003123701379						
TAG-LANE 9547 CABRIO 8460	840003123701382						
TAG-LANE 9549 JETSET 8378	840003123701384						
TAG-LANE 9550 PRED 8401-ET	840003123701385						
TAG-LANE 9556 LA-B 8487	840003123701391						
TAG-LANE 9561 PRED 8478	840003123701396						
TAG-LANE 9562 PRED 6831	840003123701397						
TAG-LANE 9563 JACEY 7413	840003123701398						
TAG-LANE 9564 SUPERS 8528	840003123701399						
TAG-LANE 9567 SUPERS 8476	840003123701402						
TAG-LANE 9568 PRED 8232	840003123701403						3
TAG-LANE 9569 CABRIO 7858	840003123701404					C	
TAG-LANE 9574 JACEY 8511	840003123701409		C				
TAG-LANE 9576 JACEY 8489	840003123701411						
TAG-LANE 9578 SUPERS 8495	840003123701413						
TAG-LANE 9580 JABIR 8344-ET	840003123701415						
TAG-LANE 9581 JACEY 8499	840003123701416						
TAG-LANE 9583 PRED 7444	840003123701418						
TAG-LANE 9584 CABRIO 7811	840003123701419						
TAG-LANE 9585 OVERBAY 6703	840003123701420						
TAG-LANE 9586 CABRIO 7991	840003123701421						
TAG-LANE 9587 PRED 8211	840003123701422						3

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9588 JABIR 8344-ET	840003123701423						
TAG-LANE 9591 PRED 8474	840003123701426						3
TAG-LANE 9595 JACEY 8480	840003123701430						
TAG-LANE 9599 JABIR 8344-ET	840003123701434						
TAG-LANE 9605 SKYL 8465	840003123701440						
TAG-LANE 9606 SUPERS 7992	840003123701441						
TAG-LANE 9608 OVERBAY 6719	840003123701443						
TAG-LANE 9611 CABRIO 8552	840003123701446						
TAG-LANE 9613 JABIR 8344-ET	840003123701448						
TAG-LANE 9614 SKYL 7144	840003123701449						
TAG-LANE 9621 CABRIO 8472	840003123701456						
TAG-LANE 9622 ART 8401-ET	840003123701457						
TAG-LANE 9624 JACEY 7945	840003123701459						
TAG-LANE 9626 AOAK 7366	840003123701461						
TAG-LANE 9627 ART 8401-ET	840003123701462						
TAG-LANE 9632 PRED 8526	840003123701467						3
TAG-LANE 9638 PRED 8602	840003123701473						3
TAG-LANE 9660 AOAK 8199	840003123701495						
TAG-LANE 9661 JACEY 7357-TW	840003123701496						
TAG-LANE 9662 JACEY 7357-TW	840003123701497						
TAG-LANE 9664 JETSET 8604	840003123701499						
TAG-LANE 9665 JACEY 8317-ET	840003123701500			C			
TAG-LANE 9667 JETS 8588-ET	840003123701502						
TAG-LANE 9675 SUPER 8609-TW	840003123701510						
TAG-LANE 9692 SUPERS 8551	840003123701527						
TAG-LANE 9697 JABIR 8546	840003123701532						
TAG-LANE 9699 PRED 8401-ET	840003123701534						
TAG-LANE 9702 JETS 8622	840003125228676						
TAG-LANE 9707 CABRIO 7481	840003125228681						
TAG-LANE 9709 SUPERS 7517	840003125228683						
TAG-LANE 9712 SUPERS 8508	840003125228686						
TAG-LANE 9714 JABIR 8616	840003125228688						
TAG-LANE 9716 ARMANI 8582	840003125228690						
TAG-LANE 9719 SUPERSI 8122	840003125228693	C					
TAG-LANE 9721 JABIR 8679	840003125228695						
TAG-LANE 9722 PREDESTI 8564	840003125228696						3
TAG-LANE 9723 JABIR 8548	840003125228697						
TAG-LANE 9725 ALTAARMAN7951	840003125228699					C	
TAG-LANE 9732 JABIR 8517	840003125228706						
TAG-LANE 9734 ARMANI 7491	840003125228708						
TAG-LANE 9735 NOMINEE 7916	840003125228709						
TAG-LANE 9736 JABIR 7549	840003125228710						
TAG-LANE 9737 OVERBAY 7425	840003125228711						
TAG-LANE 9740 PREDEST 8082	840003125228714			C			3
TAG-LANE 9742 ARMANI 7960	840003125228716						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9743 NOMINEE 8383	840003125228717						
TAG-LANE 9744 ARMANI 6632	840003125228718						
TAG-LANE 9746 ALRIGHT 8648	840003125228720					C	
TAG-LANE 9748 JABIR 7907	840003125228722					C	
TAG-LANE 9749 ALRIGHT 8401	840003125228723						
TAG-LANE 9751 NOMINEE 8667	840003125228725						
TAG-LANE 9754 ALRIGHT 7977	840003125228728						
TAG-LANE 9755 JABIR 8423	840003125228729						
TAG-LANE 9757 SUPERSIR 8580	840003125228731						
TAG-LANE 9759 ARMANI 8569	840003125228733						
TAG-LANE 9760 NOMINEE 8594	840003125228734						
TAG-LANE 9775 SUPERSIR 6823	840003125228749						
TAG-LANE 9779 MIDNIGHT 8575	840003125228753						
TAG-LANE 9785 MIDNIGHT 8713	840003125228759						
TAG-LANE 9786 ALARMANI 8721	840003125228760						
TAG-LANE 9792 SUPERSIRE7448	840003125228766	C					
TAG-LANE 9793 MIDNIGHT 8563	840003125228767						
TAG-LANE 9794 JABIR 7527	840003125228768						
TAG-LANE 9797 JABIR 8565	840003125228771						
TAG-LANE 9805 JABIR 7419	840003125228779						
TAG-LANE 9808 NOMINEE 7889	840003125228782						
TAG-LANE 9810 MIDNIGHT 7552	840003125228784						
TAG-LANE 9813 SUPERS8738	840003125228787						
TAG-LANE 9815 JETSET 8668	840003125228789						
TAG-LANE 9819 JETSET 8625	840003125228793					C	
TAG-LANE 9822 JETSET 8588	840003125228796						
TAG-LANE 9824 SUPERS 6796	840003125228798						
TAG-LANE 9829 JETSET 7562	840003125228803						
TAG-LANE 9837 JABIR 8181	840003125228811						
TAG-LANE 9839 SUPERS 8684	840003125228813						
TAG-LANE 9840 VERSATILE-ET	840003125228814						
TAG-LANE 9841 JETSET 8663	840003125228815						
TAG-LANE 9842 JETSET 8656	840003125228816						
TAG-LANE 9843 PREDES 7632	840003125228817						3
TAG-LANE 9845 ARMANI 7441	840003125228819						
TAG-LANE 9846 SUPERS 8071	840003125228820						
TAG-LANE 9852 MIDNIGHT 7270	840003125228826						
TAG-LANE 9854 VERSA 8624-ET	840003125228828						
TAG-LANE 9857 MIDNIGHT 7518	840003125228831						
TAG-LANE 9859 ARMANI 7708	840003125228833						
TAG-LANE 9860 SUPERS 8793	840003125228834						
TAG-LANE 9862 NOMINEE 8577	840003125228836						
TAG-LANE 9863 NOMINEE 8799	840003125228837						
TAG-LANE 9865 JABIR 8610	840003125228839			C			
TAG-LANE 9870 MIDNIGHT 7266	840003125228844						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9872 SUPERS 8661	840003125228846						
TAG-LANE 9876 ROCKY 8710	840003125228850						
TAG-LANE 9877 VERSA 8632	840003125228851						
TAG-LANE 9890 RAMIE 8507	840003125228864						
TAG-LANE 9892 JABIR 8745	840003125228866						
TAG-LANE 9893 ROCKY 8790-ET	840003125228867						
TAG-LANE 9894 MIDNIGHT 8798	840003125228868						
TAG-LANE 9896 ROCKY 7952	840003125228870					C	
TAG-LANE 9897 ROCKY 8790-ET	840003125228871						
TAG-LANE 9899 MIDNIGHT 7675	840003125228873						
TAG-LANE 9900 CABRIO 8608	840003126481096			C			
TAG-LANE 9902 ROCKY 8011	840003126481098						
TAG-LANE 9904 SUPERS 7054	840003126481100						
TAG-LANE 9905 CABRIO 8782	840003126481101						
TAG-LANE 9911 CABRIO 8669	840003126481107						
TAG-LANE 9913 HALOGEN 8819	840003126481109						
TAG-LANE 9914 GREENWAY 6794	840003126481110						
TAG-LANE 9915 PONDER 8060	840003126481111			C			
TAG-LANE 9917 HALOGEN 8545	840003126481113			C			
TAG-LANE 9919 HALOGEN 8170	840003126481115						
TAG-LANE 9922 RODGERS 8816	840003126481118						
TAG-LANE 9924 GREENWAY 8664	840003126481120						
TAG-LANE 9925 MIDNIGHT 8741	840003126481121						
TAG-LANE 9927 PONDER 7471	840003126481123						
TAG-LANE 9930 VERSA 8682	840003126481126						
TAG-LANE 9933 CHEVY 7503	840003126481129						
TAG-LANE 9936 CABRIO 8638	840003126481132	C					
TAG-LANE 9937 HALOGEN 8809	840003126481133						
TAG-LANE 9941 RODGERS 8585	840003126481137						
TAG-LANE 9942 RODGERS 8835	840003126481138						
TAG-LANE 9944 RODGERS 7332	840003126481140						
TAG-LANE 9953 CABRIO 8691	840003126481149			C			
TAG-LANE 9954 SUPERS 8647	840003126481150						
TAG-LANE 9956 SUPERS 7556	840003126481152						
TAG-LANE 9960 RODGERS 7384	840003126481156						
TAG-LANE 9961 RACER 8844	840003126481157						
TAG-LANE 9965 MIDNIGHT 8009	840003126481161						
TAG-LANE 9970 MIDNIGHT 8645	840003126481166						
TAG-LANE 9974 CABRIO 6752	840003126481170	C		C			
TAG-LANE 9977 RODGERS 6407	840003126481173						
TAG-LANE 9981 RODGERS 8857	840003126481177						
TAG-LANE 9982 HALOGEN 8175	840003126481178						
TAG-LANE 9989 PONDER7293-TW	840003126481185						
TAG-LANE 9990 PONDER7293-TW	840003126481186						
TAG-LANE 9992 VERSA 8772	840003126481188			C			

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAG-LANE 9993 CABRIO 8792	840003126481189						
TAG-LANE 9994 CABRIO 7480	840003126481190						
TAG-LANE 9997 SUPERS 8206	840003126481193						
TAG-LANE 9999 PONDER 7983	840003126481195						
TAG-LANE CONQUEST 6407	USA 62754411						
TAG-LANE SHARKY 6462	USA 63151478	C					
TAILS-UP DUNDEE TRAGEDY	USA 140346093						
TALENTED SNICKER-RED	840003126531513					C	
TALL-J ADVENT LAYLA-RED	USA 136275840						
TALLENT-USA R SUGAR	USA 140003161						
TAMAR EIG J BLONK	NLD 496126196						
TAN-BARK CASUAL BEVERLY-ET	USA 142912221						3
TAN-BARK FANNY-ET	USA 142132120						
TAN-BARK GABOR MARY-ET	USA 141081337						
TAN-BARK MITCH FLO	USA 142311271						
TAN-BARK MOGUL MACY-ET	USA 142343676						
TAN-BARK O-STYLE MIDGE-ETS	USA 141726276						
TAN-BARK O-STYLE MINNIE-ETS	USA 141726267						
TAN-BARK PICARDUS LORENA	USA 74447747						
TAN-BARK RACER POLLY	USA 74447732						
TAN-BARK SHAMROCK 1487-ET	USA 70640520						
TAN-BARK SHAMROCK MARIA-ET	USA 141548694						
TAN-BARK SOCRATES FLOWER-ET	USA 139644124						
TAN-BARK SUPERSIRE BELINDA	USA 73847393						3
TAN-MARK FEVER SOFFIE	USA 72879292						1
TAN-MARK GOLDWYN BROOK-ET	USA 66761748						1
TAN-MARK GOLDWYN JIVA-ET	USA 66761756						1
TAN-MARK MAN-O-MAN JOLIE	USA 70727156						
TAN-MARK SHOTTLE JAZZY-ET	USA 63384157						
TAN-MARK SHOTTLE SPIRT-ET	USA 66761754						
TANBARK MAGNA ROBBER P	CAN 11615416						3
TANDE DAMION CASSI	USA 62315100						
TANDE DURHAM BRIANA	USA 129627494						
TANDE DURHAM PATIENCES	USA 62315071						
TANDE LAURIER CLASSY	USA 132805487						
TANDE MARION BRITNEY-ET	USA 62315105	C					
TANDE REGGIE BERLIN-ET	USA 62315077						
TANDE REGGIE BROOKLYN-ET	USA 62315074						
TANDE SANCHEZ BACARDI	USA 62315163						
TANDE SANCHEZ TWINKLE	USA 62315161						
TANGLEWOOD AFTRSHOCK COOKIE	USA 72614789					C	
TARINA 4-ET	DEU 1500128988						
TARINA 5-ET	DEU 1500128989						
TARINA 6-ET	DEU 1501131337						
TASA BOLTON LAYNE	USA 64457339						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TASA DORCY 814	USA 72788703	C				C	
TASA DORCY 828	USA 72788717						
TASA EPIC 838	USA 72788727						
TASA G W ATWOOD 842	USA 72788731						
TASA GARRETT 757	USA 70749852						
TASA GARRETT 758	USA 70749853						
TASA MCCUTCHEN 839	USA 72788728			C			
TASA MCCUTCHEN 843	USA 72788732						
TASTUM ACME SHES TAKEN-RED-ET	DNK 6524000040						2
TASTUM GC ATTENTION PLEASE	USA 141830678						
TASTUM GOLDWYN DIZZY	DNK 4433403223						
TASTUM GOLDWYN JITTERBUG	DNK 5339701931						
TASTUM M-O-M PANDORA-ET	DNK 6524000006						
TASTUM MAC FIREWORKS-ET	DNK 4433404258						
TASTUM MASCALS LETS PARTY-ET	DNK 6524000044						
TASTUM MCC IM ATTRACTIVE-ET	DNK 52039030829						
TASTUM MOGUL AKEEIAH-ET	DNK 5203903989						
TASTUM ROUMAIRE JAYLA-ET	DNK 4433403297				C		
TASTUM SUPERSIRE ALALA-ET	DNK 5203903855						
TATTOO SHAMROCK LIZ 17215	USA 70940540						
TATTOO-M OBSERVER ELLIE	USA 72701455						
TATUM-SVRP BAXTER TINA-ET	USA 139464410						
TAUZEL HEFTY LUMAY	USA 72838448					C	
TAUZEL NUMBERONE GLEE	USA 72838447						
TAUZEL PROPER FELIX	USA 72838454						
TAUZEL TOYSTORY FRANCO	USA 72838459						
TAW BOMBERO DIGIT-ET	840003126142316						
TAW BOMBERO DIVA-ET	840003126142318						
TAW DEFENDER DORA 9781	840003128668077						
TAW DESHAUN PAN 9685-ET	840003126142329						
TAW DOORMAN PUDDING 8903-ET	840003012228471					C	
TAW EPIC POSSIE 8429-ET	USA 72036303						
TAW EPIC PUFF 8432-ET	USA 72036306						
TAW MUSCADET PUFF 3206	840003135870867						
TAW OAK 9111	840003013506089						
TAW OAK 9128	840003013506106						
TAW STNLYCP LISA 8487-ET	USA 72036361						1
TAW STNLYCP LOIS 8495-ET	USA 72036369						
TAYACRES RY PRUPLE	USA 135864179						
TAYACRES WADE LOUANN-TW	USA 120992724						
TAYL-VIEW EARN DAISY-ET	USA 72712611						
TAYL-VIEW EARN DESIREE-ET	USA 72712606					C	
TAYL-VIEW PUNCH DOTTY	USA 71692947						
TAYL-WIND ADRIAN 701	840003132535423						
TAYL-WIND ATOMIC 606	USA 73796274						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAYL-WIND BUD 614	USA 73796282						
TAYL-WIND CHRISTO 692	USA 73796360						
TAYL-WIND CLARK 607	USA 73796275						
TAYL-WIND CLARK 627	USA 73796295						
TAYL-WIND DENIM 645	USA 73796313						
TAYL-WIND DOM 613	USA 73796281						
TAYL-WIND DOM 618	USA 73796286						
TAYL-WIND DYMON 598	USA 73796266						
TAYL-WIND DYMON LEAH	USA 73796290						
TAYL-WIND ERSKINE 593	USA 73796261						
TAYL-WIND GALAXY 634	USA 73796302						
TAYL-WIND INDY 646	USA 73796314	C					
TAYL-WIND JELLO 597	USA 73796265						
TAYL-WIND KEYBOARD 596	USA 73796264						1
TAYL-WIND KIEFFER 638	USA 73796306						
TAYL-WIND KIEFFER 642	USA 73796310						
TAYL-WIND LANGDON 698	USA 73796366	C					
TAYL-WIND LIFELONG 699	USA 73796367						
TAYL-WIND MADMAX 704	840003132535426						
TAYL-WIND MADMAX 711	840003132535433						
TAYL-WIND MOM2 ANDRA	USA 72134721						
TAYL-WIND PRAISE 604	USA 73796272						
TAYL-WIND PRAISE BELLA	USA 73796315						
TAYL-WIND RED-OAK 631	USA 73796299		C	C			
TAYL-WIND REST LAURA	USA 73796285						
TAYL-WIND SPEEDY MOLLY	USA 73796309						
TAYL-WIND TESTPILOT 611	USA 73796279						
TAYL-WIND TRIVIA 710	840003132535432						
TAYL-WIND TUFF ANDREA	840003132535436						
TAYL-WIND UPSTATE BECKY	USA 73796289						
TAYL-WIND UPSTATE TAMARA-TW	USA 73796292						
TAYL-WIND UPSTATE TANYA-TW	USA 73796291						
TAYL-WIND WHTLGHTNG 628-TW	USA 73796296						
TAYL-WIND WHTLGHTNG-TW	USA 73796297						
TAYLOR-MILL DASHAWN 903-ET	840003131090666	C					
TAYLOR-MILL DASHAWN 904-ET	840003131090667		C				
TAYLOR-PRIDE ASPEN DECIMAL	USA 70222188						
TAYLOR-PRIDE DUNDEE STORMY	USA 70222186						
TAYLOR-PRIDE FNL CT BROOKIE	USA 70222194						1
TAYLOR-PRIDE JERRICK MAUI	USA 70222191						
TAYLOR-PRIDE JERRICK SOLO	USA 70222195						
TAYLOR-PRIDE REMI HICCUP	USA 70222192						3
TAYLOR-PRIDE REMI MALLOW	USA 70222189						
TAYLOR-PRIDE REMI SIDNEY	USA 70222190						
TAYLOR-PRIDE RLNR MILLI-RED	USA 70222196						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TAYLOR-PRIDE WNDBRK RAINY	USA 70222193						
TB SH CHOICE	NLD 448781149						
TBM MOGUL HOAX	USA 143180676						
TBM PLANET FARAWAY-ET	USA 142498143						
TBM PLANET FARLEY-ET	USA 142498152						
TBM PLANET WILLIE	USA 142899319						
TBM PREDESTINE WOVA	USA 143110958						
TBM REFLECTOR AMELIA	USA 143264554						
TBM REFLECTOR FLAME	USA 143264581						
TBM SANCHEZ ELIZA-ET	USA 140076903						
TBM SUPERSIRE HONOR	USA 143313669						
TBM SUPERSIRE NIPPY	USA 143233927						
TCG-KM AARON DAWN RAE-ET	USA 70137231						
TCG-KM CASSINO ENDLESS-ET	USA 69440651						
TCG-KM DAINTY RAE-ET	USA 70137264						
TCG-KM DELITE RAE-ET	USA 70137261						
TCG-KM DESIRE RAE-RED-ET	USA 70137259						
TCG-KM DESTINY-ET	USA 70137258						
TCG-KM JEEVES CORA-ET	USA 68776009						
TCG-KM PLANET CANDICE-ET	USA 66444205						
TCG-KM SHAMROCK EXTRA-ET	USA 70673331						
TCG-KM SHMRK ELITE-ET	USA 70640456						
TEAKWOOD BRONX MARY	840003010961416						
TEAKWOOD G MERRY	840003012499029						
TEAM ABSOLUTE MINNIE-ET	840003014331179						
TEAM ASPEN MICHELE-ET	USA 65944597						
TEAM CASINO MONET-ET	USA 70241580						
TEAM DEMPSEY MEMORY-ET	USA 70755887						
TEAM GOLDCHIP MILLY	USA 70755856						
TEAM GOLDWYN MONIQUE-ET	USA 70755840						
TEAM SID MIRACLE	840003130016492						
TEDDY-BEAR G-CHIP KASSIE	USA 55648360						
TEDDY-BEAR LYLE FERN	USA 52779276						
TEEMAR AFULL GALLON-ET	USA 70824866			C			
TEEMAR ALBERT DOLL-TW	USA 74081881						
TEEMAR ALBERT DOLL-U-UP-TW	USA 74081882			C			3
TEEMAR ALBERT DORY	USA 74081886			C			
TEEMAR ALCHEMY	USA 72083048						1
TEEMAR ALCHEMY CAMP-ET	USA 71762023						1
TEEMAR ALLBULL CAMEL	USA 74414996						
TEEMAR ANGELINA-ET	USA 60467174			C			
TEEMAR ATWOOD FLAIR-ET	840003129044775						
TEEMAR ATWOOD FLORIA-ET	840003129044776						
TEEMAR ATWOOD FLORIS-ET	840003129044774						
TEEMAR ATWOOD TARZANA-ET	USA 72402040						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEEMAR ATWOOD TEDDY-ET	USA 72083053						
TEEMAR BALISTO ADORABLE	USA 74414994						
TEEMAR BALISTO ARMFORCE	USA 74414997						
TEEMAR BALISTO C-MAGIC P-ET	USA 73721551						
TEEMAR BALISTO C-POLL	USA 73779274						
TEEMAR BALISTO CAMRYN-ET	840003131563669						
TEEMAR BALISTO CAPTURE-P-ET	USA 74086166						
TEEMAR BALISTO CLAUDIA-ET	USA 74082876						
TEEMAR BALISTO COIN	USA 74081887						
TEEMAR BALISTO COMEDIAN-ET	USA 74081885						
TEEMAR BALISTO COPPER-ET	USA 74081874						
TEEMAR BOOKEM AJAX-ET	USA 74516982			C			
TEEMAR BOOKEM AWARD	USA 71025137						
TEEMAR BOOKEM CHARGER-ET	USA 70928881						
TEEMAR BOOKEN ALREADY-ET	USA 70824868			C			
TEEMAR BOOKEN AUNT RITA-ET	USA 70824867			C			
TEEMAR BOWSER PATTI	USA 71676400						
TEEMAR BOXER TIANNA-ET	USA 69780406			C			
TEEMAR BOXER TINA-ET	USA 69780405						
TEEMAR BOXER TURNER-ET	USA 69793175						
TEEMAR CM ABEER-ET	USA 71623891						
TEEMAR CM ELY-ET	USA 71676401						
TEEMAR COLT ARABIAN-RED	USA 71623897						
TEEMAR COLTINA-P-ET	USA 71683746						
TEEMAR COLTOLA-ET	USA 71683748						
TEEMAR DADDY JACKIE	USA 73724790						
TEEMAR DESTRY ANDREA-ET	USA 71025133						1
TEEMAR DESTRY AVALANCHE-ET	USA 71025132			C			
TEEMAR DOBERMAN AIRWAY-ET	USA 70928883			C			
TEEMAR DOMAIN ANGEL	USA 70720621			C			
TEEMAR DOMAIN ARTHEA	USA 71311583						
TEEMAR DOMAIN CANDID	USA 71311582			C			
TEEMAR DONATELLO ARBOUR-ET	USA 75314875						
TEEMAR DOORMAN FANTASY	USA 73721547						
TEEMAR DOORMAN J-WALK	840003133105804					C	
TEEMAR EARTHTIME-ET	USA 69549725						
TEEMAR EPIC AIRFEILD-ET	USA 71762019						
TEEMAR EPIC AIRMAIL-ET	USA 71762018						
TEEMAR EPIC ALLUSION-ET	USA 72083051			C			
TEEMAR EPIC ALPHA-ET	USA 72083049						
TEEMAR EPIC ALTITUDE-ET	USA 72652181						
TEEMAR EPIC ANCHOVE-ET	USA 72868892						
TEEMAR EPIC APPEAR	USA 71846824						
TEEMAR EPIC TOWN-ET	USA 71762021						
TEEMAR EPIC TUNE-ET	USA 71762020						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEEMAR ERASER APOSTLE-P-ET	USA 75314876						
TEEMAR EXPLODE CANNON-ET	USA 72652182						
TEEMAR FACEBOOK TACO	USA 71623895			C	C		
TEEMAR FACEBOOK TUNA	USA 71623896						
TEEMAR GALAXY END-ET	USA 72990990						
TEEMAR GOLD CHIP TIA-ET	USA 71623890			C			
TEEMAR GOLD EARRING-ET	USA 71683744						
TEEMAR GOLD ELOCKS-ET	USA 71683745						
TEEMAR GREATEST ANTIQUE-ET	USA 71020776			C			
TEEMAR GUTHRIE FLIGHT-ET	USA 75314879						
TEEMAR GUTHRIE FLIPPER-ET	USA 75314880						
TEEMAR GUTHRIE FRITSCH-ET	840003133105800						
TEEMAR HILL CAP-ET	USA 71088766			C			
TEEMAR IOTA CARLY-ET	USA 71025131						
TEEMAR IOTA TONI-ET	USA 72379255			C			
TEEMAR JABIR ACTUAL	USA 73779276			C			
TEEMAR JACEY APRIL-ET	USA 73743027						
TEEMAR JACEY CAMMEY-ET	USA 73749242						
TEEMAR JANGO TANGO-ET	USA 66976370			C	C		
TEEMAR JEEVES ALBERTA-ET	USA 69337772						
TEEMAR JEEVES ALEXI-ET	USA 69337774			C			
TEEMAR JEEVES ALIEN-ET	USA 69337771						
TEEMAR JEEVES ALLMINE-ET	USA 69337773						
TEEMAR JEEVES COTTONEYE-ET	USA 69337775			C			
TEEMAR JOSUPER A-GOALIE-ET	USA 75612855						
TEEMAR JOSUPER ADMIRE-ET	840003131563659						
TEEMAR JOSUPER ANN	840003133105803			C			
TEEMAR JOSUPER CANDLE-ET	USA 143237127						
TEEMAR JOSUPER RACH-ET	840003133105795						
TEEMAR JOSUPER RJP-ET	840003133105796						
TEEMAR LADD ADD P	USA 73721548						
TEEMAR LADD ALEX	USA 72652179						
TEEMAR LADD CHARACTER	USA 72990986						
TEEMAR LADD CREDIT	USA 72990988			C			
TEEMAR LATIMER ACTION	USA 73107489			C			
TEEMAR LATIMER AM	USA 73107487			C			1
TEEMAR LAWBOY ENCOUNTER	USA 69337776			C			
TEEMAR LAWNBOY ALMOND-RED	USA 68676357						
TEEMAR LAWNBOY CARE-P-ET	USA 69039857						
TEEMAR LAYNE ENDING	USA 74081884						
TEEMAR LEXOR ANNABEL-ET	USA 73107488			C			
TEEMAR LEXOR AUTO-ET	USA 72751205						
TEEMAR MAC ARRIVE	USA 136001812						
TEEMAR MAN-O-CHA	USA 69549726						
TEEMAR MANAGER ACHIEVE-ET	USA 139181713						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEEMAR MASSEY AMIGA-ET	USA 72868891						
TEEMAR MASSEY APHRODITIE-ET	USA 72990992						
TEEMAR MASSEY AWAKE-ET	USA 72508396						
TEEMAR MASSEY CARI-ET	USA 73410330						
TEEMAR MAURICE ADVANTAGE-ET	USA 72510464						
TEEMAR MAURICE AMMUNITION	USA 142583047						
TEEMAR MAURICE ASTONISH-ET	USA 72510465			C			
TEEMAR MCCUTCHEN ELDER	USA 72990985			C			
TEEMAR METEOR ALLERGY	USA 143237060						
TEEMAR MICHAEL COOL	USA 69337769			C			
TEEMAR MILLION ALLTIME-ET	USA 69039856						
TEEMAR MILLION CATEYE-ET	USA 69039850		C	C			
TEEMAR MILLION CATNAP-ET	USA 69039851			C			
TEEMAR MILLION CATWALK-ET	USA 69039852		C	C			
TEEMAR MOGUL ABBA	USA 73721550						
TEEMAR MOGUL AFFECTION-ET	USA 72268737						
TEEMAR MOGUL APPEAL-ET	USA 72402038						
TEEMAR MOGUL APPLAUD-ET	USA 72083050			C			
TEEMAR MOGUL ARMBAND-ET	USA 72402039						
TEEMAR MOGUL ASTRONAUT-ET	USA 72379254			C			
TEEMAR MOGUL AUTUMN-ET	USA 72268736						
TEEMAR MOGUL CANDY-ET	840003133105802						
TEEMAR MOGUL CORINA-ET	USA 73721552						
TEEMAR MONTROSS AUDIENCE	USA 143237079						
TEEMAR MONTROSS CAMPER-ET	USA 143237109						
TEEMAR MONTROSS CRYPT-ET	USA 143240163						
TEEMAR MONTROSS DONUT	USA 75314878						
TEEMAR MR BURNS CATRINA-ET	USA 138788458						3
TEEMAR MYRLE ANCHOR-ET	USA 75314883						
TEEMAR O MAN ALANA-ET	USA 139343005			C			
TEEMAR O MAN ALBAN-ET	USA 139342947			C			
TEEMAR O MAN ALLEY-ET	USA 139342956			C			
TEEMAR O MAN ALLOW-ET	USA 139342974						
TEEMAR O MAN ALOT-ET	USA 139342992						
TEEMAR O MAN BLUE	USA 63163454			C			
TEEMAR O-MAN AIRTIME-ET	USA 137219948			C			
TEEMAR OAK ANATOMY-ET	USA 72990984			C			
TEEMAR OAK ARK-ET	USA 72990991			C			
TEEMAR OAK CASTLE	USA 73309763						
TEEMAR OAK CELESTE-ET	840003123906819						
TEEMAR OAK CELINE-ET	USA 73379958						
TEEMAR OAK CHELSEY-ET	840003123906822						
TEEMAR OAK ENORMOUS	USA 73721549						
TEEMAR OAK RACHAEL-ET	USA 73107490						
TEEMAR OBSERVER ALEXA-ET	USA 73477564			C			

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEEMAR OBSERVER ARRAY	USA 71025135			C			
TEEMAR OBSERVER CAPRI-ET	USA 71623904						
TEEMAR OBSERVER J-LO-ET	USA 74081880						
TEEMAR OBSERVER NATURE	USA 71311587						
TEEMAR OBSERVER TIPTOE-ET	USA 73721546						
TEEMAR OHARE ALLWHITE-P	USA 74414998			C			
TEEMAR OHARE AMPLE	USA 74081877						
TEEMAR OHARE ARENA-P	USA 74516979			C			
TEEMAR OHARE CHALLENGER	USA 74081875						
TEEMAR OHARE CURE-P	USA 74081878						
TEEMAR OHARE ELF	USA 74081876						
TEEMAR OHARE NEAT-P	USA 74081883			C			
TEEMAR OHARE NIPPY-P	USA 74081892			C			
TEEMAR OMAN ADORABLE-ET	USA 136889667						
TEEMAR OMAN CHALK	USA 136963518			C			
TEEMAR OVERBAY TAPE-ET	USA 73779273						
TEEMAR PARADISE AWAY	USA 72083052						
TEEMAR PLAN Z EFFORT-ET	USA 71762022						
TEEMAR PLAN Z EMPLOY	USA 71897460			C			
TEEMAR PLAN-Z EVERLAST-ET	USA 72379253						
TEEMAR PLANET ABOVE	USA 68676352						1
TEEMAR PLANET AIRCRAFT-ET	USA 69882403			C			
TEEMAR PLANET AIRPORT-ET	USA 69882404			C			
TEEMAR PLANET CAMEL-ET	USA 74516981						
TEEMAR PLANET CREATION-ET	USA 74516980						
TEEMAR POWERBALL ALL-P	USA 75526333						
TEEMAR POWERBALL AWARD-P-ET	840003133105791						
TEEMAR POWERBALL CARLA-P-ET	840003133105798						
TEEMAR POWERBALL WHIP-P-ET	840003133105794						
TEEMAR POWERBALL WIN-P-ET	840003133105793						
TEEMAR POWERBALL WONDER-ET	840003133105792						
TEEMAR POWERBALL-P ARM	840003133105799						
TEEMAR RACER ATRIUM-ET	USA 74516983						
TEEMAR RACER FLIGHT-ET	USA 74081889						
TEEMAR RACER FLOWER-ET	USA 74081888						
TEEMAR RACER FLY-ET	USA 74081890						
TEEMAR RACER START	USA 74414995						
TEEMAR RACER TUNDRA-ET	USA 74081891						
TEEMAR RAMO CHACHA-ET	USA 138640640			C			
TEEMAR RAMO CHACHACHA-ET	USA 138757296			C			
TEEMAR RAMOS AFFIRM	USA 138788029			C			
TEEMAR RAMOS CATHY-ET	USA 138517469						
TEEMAR RAMOS CONNIE-ET	USA 138517610						
TEEMAR ROBUST ACORN-ET	USA 70472421			C			
TEEMAR ROBUST AKON-ET	USA 70472420						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEEMAR SANDY CANE-ET	USA 68676354						
TEEMAR SACHEL ARIANA-ET	USA 72402037						
TEEMAR SHAKESPHERE ALERT-ET	USA 74081879						
TEEMAR SHAM EARTHROCK-ET	USA 71311588						
TEEMAR SHAMROCK ADALYN-ET	USA 71065533			C			
TEEMAR SHAMROCK AWHIRL-ET	USA 71088767						
TEEMAR SHAMROCK CADILLAC-ET	USA 71623901						
TEEMAR SHAMROCK CAMARO-ET	USA 71623902						
TEEMAR SHAMROCK CAMINO-ET	USA 71623900						
TEEMAR SHAMROCK CHARGER-ET	USA 71623903						
TEEMAR SHAMROCK COBRA-ET	USA 71623898						
TEEMAR SHAMROCK CORVETTE-ET	USA 71623899						
TEEMAR SHAMROCK EVA-ET	USA 71311586						
TEEMAR SHAMROCK EVE-ET	USA 71311585						
TEEMAR SHAW ALVINA-ET	USA 72990987						
TEEMAR SHOTGLASS A-SHOT-ET	USA 73477562						
TEEMAR SHOTGLASS ACTWON-ET	USA 73779275			C			
TEEMAR SHOTTLE ADMIRE	USA 68570028			C			
TEEMAR SHOTTLE ALOFT-TW	USA 139831113			C			
TEEMAR SHOTTLE ALOHA-TW	USA 139831122			C			
TEEMAR SHOTTLE ARENA-ET	USA 137704905					C	
TEEMAR SHOTTLE ART-ET	USA 66976369						
TEEMAR SHOTTLE ARTILLERY-ET	USA 66976367						
TEEMAR SHOTTLE ARTWORK-ET	USA 66976368						
TEEMAR SHOTTLE JETPACK-ET	USA 139515741						
TEEMAR SILVER FLAIR-ET	840003133105818						
TEEMAR SILVER RING	840003133105797						
TEEMAR SILVER WILMA-ET	840003133105801						
TEEMAR SUDAN ABDUL-ET	USA 71623894						
TEEMAR SUDAN ALICE-ET	USA 71623893						
TEEMAR SUDAN ALISON-ET	USA 71623892						
TEEMAR SUDAN TOMAHAWK-ET	USA 71897459						
TEEMAR SUDAN TORCH-ET	USA 71897458						
TEEMAR SUPER AMBER-ET	USA 60467175			C			
TEEMAR SUPER JUDY-ET	USA 142042333						
TEEMAR TANGO AFRICA-ET	USA 73724791						
TEEMAR TANGO ARGENTINA-ET	USA 73724793			C			
TEEMAR TANGO AUSTRALIA-ET	USA 73724792			C			
TEEMAR TIARA-ET	USA 69780407			C			
TEEMAR TIG CAREFUL	USA 72751206						
TEEMAR UNO AVIATION-ET	USA 71897457						
TEEMAR UNO AVIATOR-ET	USA 71897456			C			
TEGAN BOLTON LILA Z 2-ET	GBR 11510595						
TEL-SAL BOI SHEBA	USA 64552218					C	
TEL-SAL FRD SHARLA	USA 69548593					C	



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEL-SAL GABOR SALLY	USA 69548595						
TEL-SAL MASSEY SHAR	USA 69548603					C	
TEL-SAL OSTYLE PAM	USA 69548596						
TEL-SAL RW LNBY LANA-RED-ET	USA 139349131						
TEL-SAL SALLIE-ET	USA 64552216						
TEL-SAL SAMANTHA-ET	USA 137788035			C			
TEL-SAL SANDRA-ET	USA 64552217						
TEL-SAL SHELLY-ET	USA 64552220					C	
TEL-SAL SO FINE-ET	USA 69548585						1
TEL-SAL SO NEAT-ET	USA 69548584						
TELFAIR PAX CANDO-RED	840003124931271						
TELFAIR STAR CANDY-RED	USA 143129477						
TELJA ATLANTIC WHINNY	USA 141999445						
TELJA HEFTY FLIPPER	USA 142498367						
TELJA HEFTY PASSION	USA 142498358						
TELJA MOONBEAM FLIPS	USA 141487973						
TELSTAR COLT-P SHEILA-RED	USA 142557675						
TELSTAR HUNTER DAFFODIL-ET	USA 142416873						
TELSTAR HUNTER DANELION-ET	USA 142416891						
TELSTAR KINGBOY DIANA-ET	840003126283204						
TELSTAR KINGBOY DINA-ET	840003126283203						
TELSTAR OSTYLE BRYLL-ET	840003009276191						
TELSTAR PROSPECTOR SUNBEAM	USA 141772044						
TELSTAR SNOW CONTRARY	USA 141501644						
TELSTAR-W ABSOLUTE PETUNIA	USA 141390228		C				3
TELSTAR-W MITCH PAPAYA-ET	USA 142006133						
TELSTAR-W MITCH PEPPER-ET	USA 142333428		C				3
TELSTAR-W MITCH PETRA-ET	USA 142006142					C	
TELSTAR-W MITCH PICKLES-ET	USA 142006160		C				3
TELSTAR-W MITCH POPCORN-ET	USA 142101472						
TELSTAR-W MITCH PUMPKIN-ET	USA 142333400						
TELVIEW MILLION 336	USA 72641971						
TEMPLEDALE IOTA PARMA	CAN 106632422						
TEMPLEDALE MOGUL PARIS-ET	CAN 107560452						
TEMPLEDALE SHOTTLE POCAHONTIS	CAN 105493610						
TEN-PENNY AL GILDA	USA 69901388						
TEN-PENNY ALEX CHICLET	USA 66198899						1
TEN-PENNY AMBROSE GENTLE	USA 73070689			C			
TEN-PENNY BBT SPARK	USA 66198910	C					
TEN-PENNY BOOKEM MINCE-ET	USA 71090920		C				
TEN-PENNY BOWSER DANNI	USA 72193253						
TEN-PENNY BOWSER GENIE	USA 71090919						
TEN-PENNY BOWSER MARTA	USA 71090922						
TEN-PENNY BOWSER MIZTI	USA 72193254						
TEN-PENNY DAY GOLDMINT	USA 72193247						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEN-PENNY DAY GOLDRAY	USA 72193249					C	
TEN-PENNY DAY JODIE	USA 72193246						
TEN-PENNY DBL DART	USA 66198911	C		C			
TEN-PENNY EPIC DARVINA	USA 73070695						
TEN-PENNY G-CHIP JANIS	USA 71090921						
TEN-PENNY G-CHIP MILADY	USA 71090918						
TEN-PENNY GALLON DARVITA	USA 69901389						
TEN-PENNY GALLON GOLDILOX	USA 69901387						
TEN-PENNY GALLON MIDDY-TW	USA 71090917						
TEN-PENNY GOLDEN CHIP	USA 71090930						
TEN-PENNY GRAFEETI GOLDRUSH	USA 71090923						
TEN-PENNY GRAFEETI MARCILA	USA 73070708						1
TEN-PENNY HALO ANNA	USA 73070713						
TEN-PENNY HAMEL MYSTERY	USA 66198908						1
TEN-PENNY JAVA ARIEL	USA 71090925						
TEN-PENNY JEEVES DARCY	USA 66198900			C			
TEN-PENNY JS GILDER-ET	USA 64853424						
TEN-PENNY JS GOLDEN-ET	USA 64853423						
TEN-PENNY JS MERCI-ET	USA 62816548						
TEN-PENNY LGE DARLA	USA 71090928			C			
TEN-PENNY LGE MIKALA	USA 71090929						
TEN-PENNY M O-SHAN DARTER	840003130797453	C					
TEN-PENNY M-O-SHAN BEAUTY	USA 72193255						
TEN-PENNY M-O-SHAN DARTA	USA 73070696	C		C			
TEN-PENNY M-O-SHAN GOLDFOIL	USA 73070697						
TEN-PENNY M-O-SHAN GOLDIE	USA 73070686						
TEN-PENNY M-O-SHAN MARSHA	USA 72193256						
TEN-PENNY M-O-SHAN MILLAY	USA 73070692						
TEN-PENNY M-O-SHAN MINE	USA 73070711		C				
TEN-PENNY MC GLDLEAF-1-TW	840003130797464						3
TEN-PENNY MC GLDLEAF-2-TW	840003130797465						3
TEN-PENNY MC GRAW GOLDMINE	840003130797448						
TEN-PENNY MC GRAW MARCINA	840003130797457						1
TEN-PENNY MC GRAW WAZIRI	840003130797450						1
TEN-PENNY MINT GENTEEL	USA 66198907			C			
TEN-PENNY MINT GOLD-ET	USA 73070703						
TEN-PENNY MINT LIMA	USA 66198902					C	
TEN-PENNY MINT MARA	USA 66198906						
TEN-PENNY MOGUL ARIELL	USA 73070699						
TEN-PENNY MOGUL DARCY	840003130797458						
TEN-PENNY MOGUL GOLDDUST	USA 73070698						
TEN-PENNY MOGUL JANIE	USA 73070705						
TEN-PENNY MOGUL JOLIE	USA 72193251						
TEN-PENNY MOGUL MARCIE-ET	USA 72193250						
TEN-PENNY MOGUL MART	USA 73070701						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEN-PENNY MOGUL MINTZ	USA 73070712						
TEN-PENNY MOGUL MISSY	USA 72193248						
TEN-PENNY MOGUL MISTY	USA 73070700						
TEN-PENNY MOGUL RELAY	USA 73070702						
TEN-PENNY MOGUL SHA-NA-NA	USA 73070704					C	
TEN-PENNY MOGUL SPIRIT	USA 73070694						
TEN-PENNY MOGUL WIZ-ET	USA 72193240						
TEN-PENNY MOGUL WIZARD-TW	USA 72193241						
TEN-PENNY MOGUL WIZARDRY-TW	USA 72193242						
TEN-PENNY MOGUL WIZBANG-ET	USA 72193239						
TEN-PENNY MOGUL WIZZIE-ET	USA 71090933						
TEN-PENNY MONTROSS DANAE	840003130797463						
TEN-PENNY MONTROSS DARA	840003130797470						
TEN-PENNY MONTROSS DARLINA	USA 73070717						
TEN-PENNY MONTROSS DARVINE	USA 73070715						
TEN-PENNY MONTROSS GOLDEN	840003130797455						
TEN-PENNY MONTROSS GOLDSUN	840003130797456					C	
TEN-PENNY MONTROSS HOLLY	840003130797466						
TEN-PENNY MONTROSS MARCEL	840003130797468						
TEN-PENNY MONTROSS MARSAL	840003130797467						
TEN-PENNY MONTROSS MISSY	840003130797459						
TEN-PENNY MONTROSS RELY	840003130797454						
TEN-PENNY MONTROSS SHAKIRA	840003130797460					C	
TEN-PENNY OBSERVER LIMERICK	USA 73070693					C	
TEN-PENNY OBSERVER MITTEN	USA 73070709						
TEN-PENNY OLIVE CRI-ET	USA 66321104						
TEN-PENNY PLANET JANLIN-ET	USA 66198901						
TEN-PENNY PONTIAC DARTA-ET	USA 62816555			C			
TEN-PENNY PR GOLDLINE-ET	USA 66198904						
TEN-PENNY PR GOLDMINE-ET	USA 66198903						
TEN-PENNY SHAMROCK ARI	840003130797461						
TEN-PENNY SHAMROCK ARIOSO	USA 72193252						1
TEN-PENNY SHAMROCK DARCY	USA 71090927						
TEN-PENNY SHAMROCK DARE	USA 73070685			C			
TEN-PENNY SHAMROCK DARLIN	USA 72193238			C			
TEN-PENNY SHAMROCK DARLING	USA 72193257						
TEN-PENNY SHAMROCK DARVANN	USA 73070691						
TEN-PENNY SHAMROCK DARVINA	USA 72193243						
TEN-PENNY SHAMROCK DARYLE	USA 73070707						
TEN-PENNY SHAMROCK MILEY	840003130797449						
TEN-PENNY SHAMROCK SPRITE	USA 71090924	C					
TEN-PENNY SKYMONT WAZIR	USA 73070716						
TEN-PENNY SKYMONT WIZZ	USA 73070710						
TEN-PENNY SPARK WIZZIE	840003130797469						
TEN-PENNY TIME MINT I-ET	USA 66198912						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEN-PENNY TIME MINT II-ET	USA 66198913		C				
TEN-PENNY TIME MINT III-ET	USA 66198914						
TENDER-LOVIN LASSIE-ET	USA 142723735						
TENDER-LOVIN LIBBY-ET	USA 142723744						
TERBEEK GLENDA 9763	NLD 542997631			C		C	
TERRA-LINDA STERLING 1556	840003013525693						3
TERRA-MCCREE A CAROLINE-ET	USA 65588903						
TERRA-MCCREE A CIDER-ETS	USA 65588897						
TERRA-MCCREE A CRAYOLA-RED	USA 69922006						1
TERRA-MCCREE ACME BEAR	840003014129252						1
TERRA-MCCREE ATWOOD OAKLEY	USA 71492836						
TERRA-MCCREE ATWOOD RUBY	840003014129242						
TERRA-MCCREE BAXTER CHRISTY	USA 65588822						
TERRA-MCCREE BUTZE NATURE	USA 71492761						
TERRA-MCCREE CAEL P	840003014129270						
TERRA-MCCREE CAELAN P-RED	840003014129313						
TERRA-MCCREE CANADA P-ET	840003014129239						
TERRA-MCCREE CLEAR P-RED-ET	USA 71492764						
TERRA-MCCREE CLEARY	840003014129245						
TERRA-MCCREE COLOR P-RED-ET	USA 71492768						1
TERRA-MCCREE COLORADO P-ET	840003014129240						
TERRA-MCCREE CONCLUSION-ET	USA 69922018						
TERRA-MCCREE CORONA P-ET	USA 71492767						1
TERRA-MCCREE CREATIVE P-ET	USA 71492760						
TERRA-MCCREE CRIMSON P	USA 71492751						
TERRA-MCCREE CUE P-ET	840003014129272						
TERRA-MCCREE DES CUPID-ET	USA 71800946						
TERRA-MCCREE DORCY CARRICK	840003014129244						
TERRA-MCCREE DURABLE CRAFT	USA 71492777						3
TERRA-MCCREE EMERALD CLIO	USA 71492756						
TERRA-MCCREE EPIC NORA	USA 71492808						
TERRA-MCCREE EPIC PRICELESS	USA 71492783						
TERRA-MCCREE G CHANCE-ET	USA 69921973						1
TERRA-MCCREE G PAISELY P-ET	USA 71492812						
TERRA-MCCREE G PENNY-P-ET	USA 71492807						
TERRA-MCCREE GUTHRIE ALSTAR	USA 71492793						
TERRA-MCCREE HIGHWAY CANDID	USA 71492830						
TERRA-MCCREE HIGHWAY ETHEL	USA 71492829						
TERRA-MCCREE IN THE CLUTCH	USA 71492835						
TERRA-MCCREE JEEVES REMY	USA 71492814						
TERRA-MCCREE LB CYPRUS-ET	USA 68672905						
TERRA-MCCREE LEVI VENUS	USA 71492757	C		C			
TERRA-MCCREE MAN-O-MAN REN	USA 71492819						
TERRA-MCCREE MANIFOLD PEAR	USA 71492796						
TERRA-MCCREE MILLION OPAQUE	USA 71492771						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TERRA-MCCREE MOGUL AUBRA	USA 71492818						
TERRA-MCCREE MP CADY-P-ET	USA 69921977						1
TERRA-MCCREE PANAMA-RED-ET	840003014129290		C				
TERRA-MCCREE PARIS P-RED-ET	840003014129284						
TERRA-MCCREE PARKER-P	USA 71492837						
TERRA-MCCREE PASCAL P-ET	USA 71492773						
TERRA-MCCREE PERRY JERRY	USA 71492817						
TERRA-MCCREE PLANET CLOUD	USA 71492784						
TERRA-MCCREE PLANET KESHA	USA 69921989						
TERRA-MCCREE POLAND-ET	840003014129285						3
TERRA-MCCREE PS CHARITY-ET	USA 65588884					C	
TERRA-MCCREE RAMSEY-RED-ET	USA 71492763						
TERRA-MCCREE RIAN P	840003014129296						
TERRA-MCCREE ROSALYN-ET	USA 71492766						1
TERRA-MCCREE S CRACKER-ET	USA 68672919						
TERRA-MCCREE SHAMROCK MAEVE	840003014129249						
TERRA-MCCREE SUDAN BANDIT	USA 71492806						
TERRA-MCCREE SUPER KIA P	840003014129243						
TERRA-MCCREE TANGO PEAR	840003014129301						
TERRA-MCCREE TANGO TAVAN	840003014129278		C				3
TERRA-MCCREE TYLER MITZY	USA 71492816						
TERRA-MCCREE TYLER MONIQUE	USA 71492809			C			
TERRA-MCCREE UNO RAIN-ET	840003014129238						
TERRA-MCCREE UNO REGAN-ET	840003014129241						
TERRA-MCCREE UNO RUMOR-ET	USA 71492844						
TERRA-MCCREE YANO KIKI	USA 71492778						
TERRICK BRONCO DEWDROP-ET	USA 68956590			C			
TERRICK BRONCO FLORA	USA 68956607						
TERRICK DURABLE LILY	USA 70124209						3
TERRICK EMORY RIBBON	USA 17227433	C					
TERRICK FIDELITY RUBY-RED	USA 68956612						
TERRICK LWNB RASBERY-RED-ET	USA 65908680						
TERRICK PLANET RICE	USA 68956586	C					
TESSA 3-ET	NLD 480999537						
TEWS-DAY SUPRSONIC BUTTONIC	USA 142041631						
TEWSDAY DUCATI CHILI	USA 72516566						
TEX-MT-VIEW COLE BILLY	USA 69312028						
TEX-MT-VIEW COLE MANTHA	USA 69312038						
TEX-MT-VIEW DEANN GWEN	USA 66516632						
TEX-MT-VIEW DEANN MAE	USA 69312009						
TEX-MT-VIEW HEFTY PASHA	USA 69312080						
TEX-MT-VIEW HILL BETSY	USA 69312039						
TEX-MT-VIEW HILL HILDA	USA 69312081						
TEX-MT-VIEW HILL KAMIE	USA 69312034						
TEX-MT-VIEW HILL UILLIE	USA 69312018						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TEX-MT-VIEW KOLTON NALEAH	USA 69311995					C	
TEX-MT-VIEW LOGAN KAYLISA	USA 69312035						
TEX-MT-VIEW PARKER LESLIE	USA 69312036						
TEX-MT-VIEW PENNY LOU	USA 130405850						
TEX-MT-VIEW SBASTIAN DALLIE	USA 69312063						
TEX-MT-VIEW SHAMPOO OMIE	USA 69311996						
TEX-MT-VIEW SHARKY HILBY	USA 69312032						
TEX-MT-VIEW SHMPOO KIRSI-TW	USA 69311991						
TEX-MT-VIEW SUPER DOLLIA	USA 69312041						
TEX-MT-VIEW SUPER FROSTY	USA 69312030						
TEX-MT-VIEW SUPER KAREN	USA 71734362						
TEX-MT-VIEW SUPER PEPAL	USA 69312013						
TEX-MT-VIEW TORNADO RANELLE	USA 69312054						
TEX-MT-VIEW TOYSTORY QUAIL	USA 69312014						
TEX-MT-VIEW TSTORY REBEKAH	USA 62792337						
TEX-STEIN ADVENT JOCELYNE	USA 65771646						
TEX-STEIN ENID MIA	USA 73649965						
TEX-STEIN MCCUTCH TEXAS	USA 143108717						
TEXEL BEAUTY AMALIA	NLD 525236322						
TEXEL BEAUTY ATLANTA	NLD 940538395						
TEXEL BEAUTY BRIDGET	NLD 524736371						
TEXEL BEAUTY CAMERON	NLD 525636298						
TEXEL BEAUTY CAROLINE	NLD 525236315						
TEXEL BEAUTY CHOICE 5	NLD 840667683						
TEXEL BEAUTY CHOICE PIRATE	NLD 897668291						
TEXEL BEAUTY DESI	NLD 493667104						
TEXEL BEAUTY DESIRE	NLD 940538124						
TEXEL BEAUTY ESTELLA	NLD 525436218						
TEXEL BEAUTY FAITH	NLD 481966657						
TEXEL BEAUTY ILSE	NLD 341276012						
TEXEL BEAUTY MANON 4	NLD 840667614				C		
TEXEL BEAUTY MARISE	NLD 399978135						
TEXEL BEAUTY MARY	NLD 435418210	C					
TEXEL BEAUTY MIMI	NLD 492467192						
TEXEL BEAUTY MISS CHOICE	NLD 530668181						
TEXEL BEAUTY POLICY-ET	NLD 492867222						
TEXEL BEAUTY POSEBILITY-ET	NLD 530668112						
TEXEL BEAUTY SH CHOICE 1	NLD 492467154						
TEXEL BEAUTY SH CHOICE 2	NLD 492467161						
TEXEL BEAUTY ZOPHIA	NLD 492667019	C					
TF ATWOOD RAVEN RUE	USA 143303831						
TFJ-ACRES ARMANI GEAR	USA 73425479						
TFJ-ACRES MARMAX GRENADE	USA 73425491						1
THALERS CROWN 1471 1815	USA 71697344			C			1
THALERS CROWN 1580 1824	USA 71697353						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
THALERS DRABLE 1492 1803-TW	USA 71697332						3
THALERS OMAN 1164-1296	USA 61592683						
THALERS PLATO 1631 1802-TW	USA 71697331						
THE L-BOY RACHEL-RED-ET	USA 139454833						
THE MILLION RACHEL-ET	USA 140155514			C			
THE MILLION RANDI-ET	USA 140155505		C				
THE MILLION RHONDA-ET	USA 140155493						
THE MILLION ROSIE-ET	USA 140155523		C				
THE-ONLY-ONE ATWOOD RAE	USA 72254479						
THE-ONLY-ONE GUTHRIE RITA	USA 72254459						1
THELDKE DOORMAN 744	USA 73078040						
THELDKE LADD P 774-RED	USA 73078070						1
THELDKE MAC RUMBA 471	USA 68692756						
THELDKE TALENT SHELBY	USA 63015116						1
THELDKE TYCOON 432-RED	USA 66012599						
THERESA	DEU 350104818					C	
THES-SCHM DENVER WINE 1060	840003131022656						
THES-SCHM PREDES WINK 972	USA 72895827						3
THESING PETRONE LARIAT	USA 72515549						
THESING PETRONE LEXUS	USA 72684228						
THIRD-DEGREE ALCHEMY HARLEE	USA 70450836						1
THIRD-DEGREE ASHOCK HANA-ET	USA 68896329						1
THIRD-DEGREE GARET HOLLY-ET	USA 68896355						1
THIRD-DEGREE GLDWYN HALE-ET	USA 62500314						1
THIRD-DEGREE LWNBY PAULA-ET	USA 65380346						
THOM-CASS ATLANTIC BECKER	USA 141694126						
THOMPSON-ACRES KEESHA-ET	USA 52367331						
THOMPSON-ACRES KIT SUZY-ET	USA 142857010					C	
THOMPSON-ACRES TILLY-ET	USA 52367309						
THORMAN GIBSON DIXIE	USA 61616397						
THORNBRIAR ASTEROID MONIQUE	USA 142722921						
THORNBRIAR GABOR ZIVA	USA 74586275						
THORNBRIAR PREDESTNE ZSAZSA	USA 73736038						
THORNBRIAR SHOTTLE ZELLA	USA 139645826						
THORNBRIAR YODER ZARA	840003008079312						
THORNBRIAR ZARKOZY ZIVANNA	USA 142167706						3
THORNCREST DUNDEE SOUZIE-ET	USA 66893943						
THORNCREST E SOLITUDE	USA 133022872						
THOROUGHbred PANSY	USA 139308824						
THOROUGHbred PRIMROSE-ET	USA 140517402						1
THREE-KNOLL LISETTE CRI-ET	USA 64541763						
THREE-QUEENS D CARMELLO 117	USA 70307275						
THREE-QUEENS DF JASMINE 217	USA 73435949						
THREE-QUEENS MOGL DIXIE 259	840003133050020						
THREE-QUEENS OB CHESNEY 210	USA 73435942		C				



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
THREE-QUEENS OLGNT LORDE 15	USA 73035525						
THREE-QUEENS OSR SYDNEY 199	USA 73435931						
THREE-STAR CM CALYPSO-ET	USA 57252829						
THREE-STAR CM CAROLINA-ET	USA 57252826					C	
THREE-STAR LEXOR CHINA-ET	USA 57252833					C	
THREE-STAR LEXOR CITRUS-ET	USA 57252832					C	
THREE-STAR MOGUL CANDY-ET	USA 57252830						
THREE-STAR PETRONE CALLY-ET	USA 57252834						
THREE-STAR PETRONE CARLY-ET	USA 57252835					C	
THREE-STAR PTR COMET CRI-ET	840003011817176						
THREE-STAR PTR CUPID CRI-ET	840003011817173					C	
THUEMLAND ALICE HAVENS	840003011485533						
THUEMLAND DEUCE DAWN SID-TW	840003010321222						
THUMB-KREST STIRE STELLA-ET	USA 139303838						
THUMBS-UP ALCHEMY LICORICE	840003013001258						1
THUNDER DRHM RASPBERRY-RED	USA 71386909						3
THUNDER-STRUCK ALLWAYS-ET	USA 73618500						
THUNDER-STRUCK ANGELA-ET	USA 73618502						
THUNDER-STRUCK ANGIE-ET	USA 73618499						
THUNDER-STRUCK ANYTIME-ET	USA 73618498						
THUNDER-STRUCK AWESOME-ET	USA 73618501						
THURLER EARNHARDT DAHLI-RED-ET	CAN 11727384						
THURLER ENFORCER JEANNIE-ET	CAN 11883967						
THURLER HALOGEN SILK-ET	CAN 12078615						
THURLER JACKMAN LYNN-ET	CAN 11727385						
THURLER MABEL-ET	CAN 12078707						
THURLER MASSEY LISE-ET	CAN 11727344						
THURLER MOGUL DIVA-ET	CAN 11883953						
THURLER MONTEREY MILDRED-ET	CAN 12078757						
THURLER SUPERSIRE LYNN-TW-ET	CAN 11727318						
THURLER SUPERSIRE NEON-ET	CAN 12078636						
THURLER TANGO NORMA-ET	CAN 12078710		C				
THYEN DURHAM INDIANA	USA 136371005						
THYEN GUTHRIE IOWA-ET	USA 70113201						
THYEN NUCLEAR LOCKET	USA 70113202						
THYEN SHOT LAZER INEZ	USA 72282071						
TI-DO PLANET FAWN	USA 64350358						
TI-SUE MORTY ROLEX MICKEY	USA 62263264						
TI-SUE SHOTTLE 1561-ET	USA 62941772						
TIADAGHTON GARTER PATTY JO	USA 135866489						
TICES BOLTON TESSI	USA 139081938						
TIDY-BROOK POTTER TARA	USA 63258357						
TIFFANY ESTEEM THANKFUL	USA 71001401						
TIFFANY REASON DECIDER	840003012506166						
TIFFANY RELIEF P SANDY	840003013713781						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIGER-LILY AARON SHEILA-RED	USA 70991485						
TIGER-LILY ABSOLUT CARY-RED	USA 66670631						
TIGER-LILY ACH LAUREN-RED	840003125090420						1
TIGER-LILY AIK LAVA-RED-ET	840003012982540						
TIGER-LILY AIK LEAH-RED-ET	840003012982474						
TIGER-LILY AIK LUPA-RED-ET	840003012982515						
TIGER-LILY AIKMAN FOLLY	840003125090375						
TIGER-LILY AIKMAN LAVANI-ET	840003125090388						1
TIGER-LILY AL DAY LOLA-ET	840003130622178						
TIGER-LILY AL DAY LOLLY-ET	840003130622175						
TIGER-LILY ALL DAY 6194-ET	840003130622258						
TIGER-LILY ALL DAY LABBA	840003130622191						
TIGER-LILY ANDERSON LIFE	USA 71708805						
TIGER-LILY AR FROZEN-RED-ET	840003012982427						
TIGER-LILY ARMAN FLORAL-ET	840003012982430						1
TIGER-LILY ARMANI FANCY	840003012982385						
TIGER-LILY ARMITAGE PAT	USA 70991483						
TIGER-LILY ARMITAGE PATSY	USA 70991530						
TIGER-LILY B LEAF-P-RED-ET	USA 70991497						
TIGER-LILY B LUCKY-P-RED-ET	USA 70991495						
TIGER-LILY BAL LIPSTICK-RED	USA 71708806						1
TIGER-LILY BOND 3548	USA 60865026						
TIGER-LILY BOOKEM JETTA	USA 70991399		C				
TIGER-LILY BOOKEM LETTY	USA 69863062						
TIGER-LILY BOOKEM PENNY	USA 69863075						
TIGER-LILY BRET LOLA-ET	USA 60865407						
TIGER-LILY BURT 4257-ET	USA 62866170						
TIGER-LILY BURT 4284-ET	USA 62866197						
TIGER-LILY BURT 4330-ET	USA 62866243	C					
TIGER-LILY CAMARO LUCY-ET	840003125090462						
TIGER-LILY CAVANA 5171	USA 69862969						
TIGER-LILY CHIPPER LACE-P	840003012982436						
TIGER-LILY COLT LINDY-P-RED	USA 70991441						
TIGER-LILY COLT TAMILA-ET	USA 70991435						
TIGER-LILY COLT TISHA-RED	USA 70991405						
TIGER-LILY CRISP 6037-RED	840003125090505	C					
TIGER-LILY CT LAVA-P-RED-ET	USA 70991396	C					
TIGER-LILY CT LAVISH-RED-ET	USA 70991397	C					
TIGER-LILY CT TABATHA-P-ET	USA 70991442						
TIGER-LILY CYPRUS LONDA	USA 69863030						
TIGER-LILY CYPRUS PANDA	USA 70991475						
TIGER-LILY DAKKER 5460	USA 70991535						
TIGER-LILY DAKKER LAMBA-ET	USA 70991490						
TIGER-LILY DAY 6192-RED-ET	840003130622256						
TIGER-LILY DEANN LEANN	USA 66670615						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIGER-LILY DELTA LANITA	USA 143476690						
TIGER-LILY DES LUCKY-RED-ET	840003012982360						
TIGER-LILY DEST LACY-RED-ET	840003012982365						1
TIGER-LILY DESTIN LIBBY-ET	840003012982362						1
TIGER-LILY DIGGER TRUDY	USA 69862961						
TIGER-LILY DISCO 3301	USA 60406938						
TIGER-LILY DOLO LILA-P	USA 71708915						
TIGER-LILY DORCY 5255	USA 69863053						
TIGER-LILY DOZER PATSY-ET	840003130622320						
TIGER-LILY DRACO PANDA-ET	840003130622339						
TIGER-LILY DRACO PAULA-ET	840003130622335						
TIGER-LILY DRES LALA-RED-ET	840003125090549						
TIGER-LILY DRES LIMO-RED-ET	840003125090545						
TIGER-LILY DST LIZ P-RED-ET	USA 69405972						
TIGER-LILY DTRY LADY-RED-ET	USA 69405974						
TIGER-LILY DTRY LANA-RED-ET	USA 69405978						1
TIGER-LILY DTRY LONA-RED-ET	USA 69405975						
TIGER-LILY DUC LEAH-RED-ET	840003012982514						1
TIGER-LILY DUC LYNN-RED-ET	840003012982509						
TIGER-LILY EARNIT 5236	USA 69863034						
TIGER-LILY EFF PAM-P-RED-ET	USA 71708886		C				3
TIGER-LILY EFF POLLY-RED-ET	USA 71708885						
TIGER-LILY EMPOWER JENNA	USA 70991428						
TIGER-LILY EN LESLIE-RED-ET	840003130622346						
TIGER-LILY ERAS LAMA-P-ET	840003130622171						
TIGER-LILY ERAS LINA-P-ET	840003125090559						
TIGER-LILY ERASE LILTH-P-ET	840003125090502						
TIGER-LILY EXPLORER 6200	840003130622264						
TIGER-LILY FRANK 5206	USA 69863004						
TIGER-LILY FRANK LANDA	USA 69862986						
TIGER-LILY GALAXY RAE-ET	USA 71708842						
TIGER-LILY GALAXY ZINNY-ET	USA 71708903						
TIGER-LILY H-RUN NELLY-ET	840003130622312						
TIGER-LILY H-RUN NETTY-ET	840003130622318						
TIGER-LILY HILL 5265	USA 69863063	C					
TIGER-LILY IP LISA-P-RED-ET	USA 70991505						1
TIGER-LILY JABIR LONNI-P-ET	840003012982500						
TIGER-LILY JABIR LORI-P-ET	840003012982499						
TIGER-LILY JABIR Z-OLIVE	840003012982496						
TIGER-LILY JET STREAM LANA	USA 63825008						
TIGER-LILY JETSET 5949	840003125090417						
TIGER-LILY LABRINTH-RED-ET	USA 70991487						2
TIGER-LILY LADD FANA-RED-ET	USA 70991518						1
TIGER-LILY LADD FANN-RED-ET	USA 70991516						
TIGER-LILY LADD FIFI-RED-ET	USA 70991520						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIGER-LILY LAILA CRI-ET	USA 71452033						
TIGER-LILY LARSON LANDA	USA 70991529						3
TIGER-LILY LATROY LACY-ET	USA 70991468						
TIGER-LILY LAUGH PP-RED-ET	USA 69863087						1
TIGER-LILY LAWNBOY LULU-RED	USA 65658065						
TIGER-LILY LES 5221	USA 69863019						
TIGER-LILY LES 5243	USA 69863041						
TIGER-LILY LEXI CRI-ET	USA 71452084						
TIGER-LILY LILY FARVE 5880	840003012982528						
TIGER-LILY LONG LALA-ET	840003012982513						
TIGER-LILY LOU LASA-P-RED	840003012982466	C					
TIGER-LILY LOU P LIL-RED	840003125090446						
TIGER-LILY LULU CRI-ET	USA 71452085						
TIGER-LILY M LEGGS-P-RED-ET	USA 69863088						
TIGER-LILY MAG LACTO-RED-ET	840003012982380						
TIGER-LILY MAG LARA-RED-ET	840003012982384						
TIGER-LILY MAG LINA-RED-ET	840003012982381						3
TIGER-LILY MATRIX LEANN-RED	USA 69405989						
TIGER-LILY MC LANE-P-ET	USA 71708863						
TIGER-LILY MC LAVATO-ET	USA 71708859						
TIGER-LILY MC LIBBY-P-ET	USA 71708862						
TIGER-LILY MC LOVELACE-ET	USA 71708846						
TIGER-LILY MC LOVETTE-ET	USA 71708855						
TIGER-LILY MC LOYA-P-ET	USA 71708857						
TIGER-LILY MC LYNN-ET	USA 71708858						
TIGER-LILY MCCUT LANTA	USA 71708889						
TIGER-LILY MCCUTCH PEARL	USA 71708898						
TIGER-LILY MITEY LALA-P-ET	USA 69863086						1
TIGER-LILY MITEY LIFT-P-ET	USA 69863089						1
TIGER-LILY MITEY LUSH-ET	USA 69863091						
TIGER-LILY MOGUL 5790	840003012982437						
TIGER-LILY MON LIBBY-RED-ET	USA 69863066						
TIGER-LILY MONTROSS 6124	840003130622188						
TIGER-LILY MONTROSS PAM	840003130622342						
TIGER-LILY MONTROSSL 4688	USA 143505783						
TIGER-LILY MULT DAISY-RED	840003130622213		C				1
TIGER-LILY MULT LACKY	840003130622261						1
TIGER-LILY OBSERVER PIPA	USA 69863011						
TIGER-LILY OHARE 5858	840003012982505			C			
TIGER-LILY OHARE 5916-ET	840003125090384						
TIGER-LILY OHARE LAKE-P	840003012982525						
TIGER-LILY OHIO STYLE 6020	840003125090488						
TIGER-LILY OLYMP LACY	840003125090568						
TIGER-LILY OLYMPIAN FLIRT	840003125090429						
TIGER-LILY OLYMPIAN LINNY	840003125090544						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIGER-LILY OVERTIME LYNK-P	840003125090416						
TIGER-LILY PARADISE JESSY	USA 71708840						
TIGER-LILY PAT PATSY-ET	840003130708868						
TIGER-LILY PAT PATTY-ET	840003130708866						
TIGER-LILY PATRIOT 5545	USA 71708769						
TIGER-LILY PATRIOT JENKY	USA 71708761		C				
TIGER-LILY PETRONE 5611	USA 71708835	C					
TIGER-LILY PLANET LANA	USA 69405949						
TIGER-LILY PLANET LIMBO	USA 65658208						
TIGER-LILY PR LISSA-RED-ET	840003125090386						
TIGER-LILY PRENTICE LETTY	USA 66670596						
TIGER-LILY PRIM LINDA-ET	840003125090399						
TIGER-LILY PRIMUS DANNI-ET	840003012982512						
TIGER-LILY PRIMUS DUTCHY-ET	840003012982504						
TIGER-LILY PRIMUS LASSO-ET	840003125090383						
TIGER-LILY PRIMUS LOCO-ET	840003125090382						
TIGER-LILY RACER LARK	840003125090528						
TIGER-LILY RACER LILA	840003125090556						
TIGER-LILY RACER LIME-ET	840003125090442						
TIGER-LILY RAVISH LAVISH	USA 69863078						
TIGER-LILY REALITY FAWN-RED	USA 69862921						
TIGER-LILY REDLOU LIZA	USA 66670568	C					
TIGER-LILY REGIMENT 4508	USA 63824963						
TIGER-LILY ROCKSTAR 5281	USA 69863079					C	1
TIGER-LILY S-SIRE LOVE-ET	840003125090518						
TIGER-LILY S-SIRE LOVELY-ET	840003125090522						
TIGER-LILY SAVAGE LIBBY-RED	USA 70991541						2
TIGER-LILY SAVAGE LINDA	USA 69863070	C					
TIGER-LILY SHAMPOO 4938	USA 66670575	C					
TIGER-LILY SHAMROCK 5383	USA 70991458						
TIGER-LILY SHAMROCK LENA-ET	USA 70991393						
TIGER-LILY SHAN LACY-P-ET	840003012982374						1
TIGER-LILY SHAN LITZIE-P-ET	840003012982438						
TIGER-LILY SIREN MISTLETO	840003012982383						
TIGER-LILY SIVER LIV-ET	840003130622208						
TIGER-LILY SN LAKE-P-RED-ET	840003012982417						
TIGER-LILY SPARK PAULA-ET	840003130622274						
TIGER-LILY SPARK PAULENE-ET	840003130622275						
TIGER-LILY SS LASS-ETS	USA 71708868						
TIGER-LILY SS LASSIE-ETS	USA 71708869						
TIGER-LILY SS LIQUID-ET	USA 71708873						
TIGER-LILY STAR LAKE-RED-ET	840003130622194						
TIGER-LILY STAR LAKKA-ET	840003130622183						1
TIGER-LILY STAR LILA-ET	840003130622199						
TIGER-LILY STAR LINDA-ET	840003130622198						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIGER-LILY STAR LINTA-ET	840003130622206						
TIGER-LILY STAR LIVVY-ET	840003130622207						
TIGER-LILY STYLE LAUGH-P-ET	840003012982510						
TIGER-LILY SUPER 5063	USA 69405998						
TIGER-LILY SYM LARNA-RED-ET	840003130622168			C			
TIGER-LILY SYM LENA-RED-ET	USA 71708912			C			
TIGER-LILY SYM LILA-ET	840003130622169			C			
TIGER-LILY SYM LUNA-RED-ET	USA 73820536			C			
TIGER-LILY SYMP LIMBA-ET	840003125090534						
TIGER-LILY SYMPAT LACY-ET	USA 71708908						
TIGER-LILY SYMPAT LADY-ET	USA 71708909			C			
TIGER-LILY SYMPAT LAURA-ET	840003125090504			C			
TIGER-LILY TAMIKA-P-RED-ET	USA 70991439						
TIGER-LILY TOYSTORY 4459	USA 63824914						
TIGER-LILY TRANSFORM RISK-P	USA 71708907						
TIGER-LILY TRIGGER LADY-ET	USA 69863014						
TIGER-LILY TURN 5193	USA 69862991						
TIGER-LILY UNO LATTA-ET	USA 71708759						
TIGER-LILY UNO LEAH-ET	USA 71708765						
TIGER-LILY UNO LEVIX-ET	USA 71708774						
TIGER-LILY UNO LINDSEY-ET	USA 71708772						
TIGER-LILY UNO LOGAN-ET	USA 71708764						
TIGER-LILY WIZARD LIZZY	USA 60865450						
TIGER-LILY YANO Z-ONIX-ET	USA 70991461						
TIGER-LILY YANO Z-ORBIT-ET	USA 70991462						
TIGER-LILY YN ZINNIA CRI-ET	USA 71452093						
TIGER-LILY YODER PANDA	840003130622317						
TIGER-LILY YODER Z-SCAPE	840003130622270						
TIGERLEA AMARILLO-RED	840003012564436						1
TILLAPYKE EXTREME AUSTEN-ET	840003123686749						
TILLAPYKE WINBROOK ABBIE-ET	USA 72313127						
TIM-ROCK ALCHEMY MAE	USA 71390683						
TIM-ROCK ALCHEMY TESS-RED	USA 71390688						
TIM-ROCK AVERY TARA	USA 69126035						1
TIM-ROCK BOXER TIANA-ET	USA 71390669						
TIM-ROCK BYWAY PAT	USA 73475500						1
TIM-ROCK DEMELLO TASHA-ET	USA 71390691						
TIM-ROCK DEMELLO TINA-ET	USA 69125957						
TIM-ROCK DEMELLO TIRZA-ET	USA 71390694						
TIM-ROCK DOORMAN SHELBY	USA 73475430					C	
TIM-ROCK EPIC ANGELA	USA 73475496						
TIM-ROCK EPIC TWILA	USA 71390681						
TIM-ROCK FOXSONG LOREN	USA 73475502						
TIM-ROCK GABOR SYDNEY	USA 69125987						
TIM-ROCK GOLD CHIP AMARA	USA 73475458						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIM-ROCK GOLD CHIP BRYNNA	USA 71390710						3
TIM-ROCK GOLD CHIP CHELSEA	USA 71390705						
TIM-ROCK GOLD CHIP SUE	USA 71390712						
TIM-ROCK GREGARIOUS ALBA	USA 73475495						
TIM-ROCK GREGARIOUS BRAVO	USA 73475490						
TIM-ROCK GREGARIOUS TALLY	USA 73475497						
TIM-ROCK HALOGEN CLARISSA	USA 73475468						
TIM-ROCK HALOGEN TIRZA	USA 73475448						
TIM-ROCK JETT AIR BRIA	USA 73475460						
TIM-ROCK LAUTHORITY BLAIR	USA 69126012						3
TIM-ROCK MAYFIELD BELINDA	USA 71390702						3
TIM-ROCK MCCUTCH TARA	USA 73475428						
TIM-ROCK ME ALTHEA	USA 73475491	C					
TIM-ROCK MODERN PANDORA	USA 73475487						1
TIM-ROCK REBEL BETZ	USA 73475447						3
TIM-ROCK REBEL TASSO	USA 73475452					C	
TIM-ROCK RETOOL LYDA-ET	USA 71390723						
TIM-ROCK SHAN LURA-ET	USA 71390759						
TIM-ROCK TRISTAN LUCY	USA 73475429						
TIM-ROCK YODER ADARA	USA 73475489		C				
TIM-ROCK YODER LILITH	USA 73475494						
TIM-ROCK YODER TAMRA	USA 73475498						
TIM-ROCK YODER TRENNA	USA 73475493						
TIMBRCREEK-D ATWOOD HOPE	USA 69383241						
TIMLYN ASTRONOMICAL MIA	USA 137056552						
TIMLYN DURHAM BRITTANY-ET	USA 137055038						
TIMLYN GOLDWYN BUNNY-ET	USA 138258733						
TIMLYN LION KING MUFASA	USA 140556669						
TIMLYN RUBENS PRO LISA	USA 66926407		C				
TIMLYNN AXS AMANDA-ET	USA 140025381					C	
TIMLYNN AXS AMY-ET	USA 140025411						
TIMLYNN BOXER ARROW-ET	USA 141104267						
TIMLYNN DUNDEE ANGELA	USA 137584088						
TIMLYNN DURHAM PRESENT-ET	USA 142828113						
TIMLYNN EXPLODE KIT	USA 141914248						
TIMLYNN GC AMNESTY	USA 141990400					C	
TIMLYNN GOLD PORTRAIT-ET	USA 140219180						1
TIMLYNN HERO ARROW	USA 141990455						
TIMLYNN JEEVES PARISA	USA 141301516						
TIMLYNN M-O-M PORTRAY	USA 141545365						1
TIMLYNN MAN-O-MAN APRICOT	USA 141264718						
TIMLYNN MAN-O-MAN PANYA	USA 141301507					C	
TIMLYNN MOM PEARL	USA 141914293						
TIMLYNN PLANET PANDA	USA 141914275						
TIMLYNN PLANET PEGASIS	USA 141990473						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TIMLYNN PLANET PERFECT	USA 141990437						1
TIMLYNN PLANET POWDER PUFF	USA 141545329						
TIMLYNN PRXS PEARL-ET	USA 139790900					C	
TIMLYNN RD PRISCILLA	USA 136748182						
TIMLYNN SHOT AL APPLE-ET	USA 141104285						
TIMLYNN SS PICTURE	USA 142636156						1
TIMZA GIBSON SILVER	USA 135151895						
TINY-ECHO BEST MINUET	USA 136528331						
TINY-ECHO JEEVES MISSY	USA 66266457						
TIPTOP MANOMAN TALA 1843-ET	USA 69877859						
TIPTOP MANOMAN TALI 1834-ET	USA 69877850						
TIPTOP MTOTO TANGY	USA 52130274						
TIPTOP PRONTO TALI 1187-TW	USA 65476107						
TIPTOP SANCHEZ TASHA 2409	USA 71620164						
TIR AN O MAN NEBLINA	DNK 3001001493			C			
TIR AN SHOTTLE GOLDMINE-ET	DNK 3372302907				C		
TIRSVAD FREDD COSMOPOLITAN-ET	DNK 2441201314						
TIRSVAD RAMOS GOLDRAIN	DNK 3372303542						
TITLETOWN BROKAW HILLARY-ET	840003130385643						
TJ-BELL LEVI 1486	840003011048961			C		C	
TJ-BELL LEVI 1487	840003011048962						
TJ-KASPER ATWOOD LANAI-ET	USA 71912671						
TJ-KASPER BRAXTON ONA-ET	USA 71912710						
TJ-KASPER GOLDWYN LEASIA-ET	USA 71912639						1
TJ-KASPER GOLDWYN LOTTA-ET	USA 71912640						1
TJ-KASPER JASPER LUANNA-ET	USA 64665541						
TJ-POLLEMA ASPEN PISTOL	USA 63437141						
TJ-POLLEMA LADD SKYLITE	USA 72247124						1
TJ-POLLEMA RDLNR SHANIA-RED	USA 139010741						1
TJ-VEENACRE OBSERVER 254	USA 71974191						
TJM-WAY BRYANT MEL	USA 143656957						
TJM-WAY LEE MITZI	USA 143596358	C					
TJR 56251 KING 62589	840003010366336						
TJR 56252 DELT 62636-ET	840003010366383						
TJR 56252 DELT 62641-ET	840003010366388						
TJR 56252 DELT 62642-ET	840003010366389						
TJR 56252 DELT 62643-ET	840003010366390						
TJR 56252 DELT 62644-ET	840003010366391						
TJR 56252 DELTA 56481	840003010355228						
TJR 56252 DELTA 62584-ET	840003010366331						
TJR 56252 DELTA 62587-ET	840003010366334						
TJR 56252 DELTA 62646-ET	840003010366393						
TJR ADDIE DEDUC 54929-ET	840003010353676						
TJR ADEL DELTA 33014-ET	840003126777019						
TJR ADEL PAT 32380-RED-ET	840003126776385						1

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TJR ADELINE REFL 54368-ET	840003010353115						
TJR ADELINE REFLC 54386-ET	840003010353133						
TJR ALADDIN BAL 54449-ET	840003010353196						
TJR ALADDIN MG 54477-ET	840003010353224						
TJR ALADDIN MG 60134-ET	840003010363881						
TJR ALADIN MG 60080-ET	840003010363827						
TJR ALEXIS ATRACK 2313-ET	USA 72769270						
TJR ALISHA DRACO 31634-ET	840003126775639		C				
TJR ALISHA DRCO 60879-ET	840003010364626						1
TJR ALISHA OLYM 31139-ET	840003126775144		C				
TJR ALISHA RUBI 54881-ET	840003010353628		C				
TJR ARIETA MCCUT 2256-ET	USA 72437803						
TJR ARIETA MCCUT 2270-ET	USA 72437817						
TJR ATTRACK FLM 56448	840003010355195						
TJR BIGSTAR 32263-RED-ET	840003126776268						
TJR BIGSTAR 32265-RED-ET	840003126776270						1
TJR BLONDIN COIN 2492-ET	840003013473929						1
TJR BLONDIN DELANEY 2377-ET	USA 72963546						
TJR BLONDIN SHAN DESTROY-ET	USA 72916815						
TJR BLONDIN SHAN DICE-ET	USA 72934203						
TJR BLONDIN SHAN DILLY-ET	USA 72934204						
TJR BLONDIN SHAN DINA-ET	USA 72934202						
TJR BLONDIN UNO 2537-ET	840003013473974						
TJR BLONDIN UNO DACE-ET	USA 73037019						
TJR BLONDIN UNO DUCEY-ET	USA 73037020						
TJR BOYANA DRACO 56430	840003010355177						1
TJR CACHE COLT 56251-ET	840003010354998						
TJR CACHE COLT 56266-ET	840003010355013						
TJR CACHE COLT 56267-ET	840003010355014						
TJR CACHE DIRECT 56508-ET	840003010355255						
TJR CACHE MCCUT 56261-ET	840003010355008						
TJR CACHE MCCUT 56264-ET	840003010355011						
TJR CACHE UNO 56252-ET	840003010354999						
TJR CARMEL DOOR 54253	840003010353000						
TJR CHRISTA CASSIE 20	840003012573472						
TJR CHRISTA CICI 2384-ET	USA 73037018						
TJR CHRISTA DNV 62565-ET	840003010366312						
TJR CHRISTA JACK 18030-ET	840003012559954			C			
TJR CHRISTA JACKMAN 2558-ET	840003013473995			C			
TJR CHRISTA JACKMAN 2567-ET	840003013474004			C			
TJR CHRISTA KRUNCH 57311-ET	840003010356058						
TJR CHRISTA OAK 2550-ET	840003013473987						
TJR CHRISTA PRS 54667	840003010353414						
TJR CHRISTA UNO 56256-ET	840003010355003						
TJR CHRISTA UNO 56260-ET	840003010355007						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TJR CICI DELTA 62623-ET	840003010366370						
TJR CICI DELTA 62626	840003010366373						
TJR CICI DENVER 56451-ET	840003010355199						
TJR DACE RUB 62611-ET	840003010366358						
TJR DACE RUB 62614-ET	840003010366361						
TJR DACE RUBICN 62617-ET	840003010366364						
TJR DAISY 54830-ET	840003010353577						
TJR DAISY DELTA 31670-ET	840003126775675						
TJR DAISY DRACO 56345	840003010355092						1
TJR DAISY EMERLD 31508-ET	840003126775513						
TJR DAISY MEGA 56519	840003010355266						
TJR DALIA DIREC 56523-ET	840003010355270						
TJR DALIA MEGA 31236-ET	840003126775241						
TJR DANTE 56505-ET	840003010355252						
TJR DANTE 56506-ET	840003010355253						
TJR DAY PAIGE 2208-ET	USA 72462420						
TJR DAY PRAIRIE 2213-ET	USA 72464028						
TJR DAY TO PARTY 2210-ET	USA 72464025						
TJR DAY TO PARTY MEG 56510	840003010355257						
TJR DAYDREAM RUB 54659-ET	840003010353406						
TJR DE-DIAMOND 2181-ET	USA 72386130						
TJR DE-DIAMOND 31630-ET	840003126775635						1
TJR DEANNA POND 54424-ET	840003010353171						
TJR DEANNA POND 54433-ET	840003010353180						
TJR DEDIAMOND MEG 56368	840003010355115						
TJR DEDIAMOND ROG 31442-ET	840003126775447						
TJR DEIDRA JOSUP 31752-ET	840003126775757						
TJR DEIDRA TANGO 56323-ET	840003010355070		C				
TJR DELANY DOZ 32382-ET	840003126776387						
TJR DELCO 56509-TW	840003010355256						
TJR DELECIA MON 31376	840003126775381						
TJR DELECIA SILV 32048-ET	840003126776053						
TJR DELLA DELTA 56333-ET	840003010355080						
TJR DELLA DELTA 56346	840003010355093						
TJR DELTA 56517-ET	840003010355264						
TJR DELTA 56518-ET	840003010355265						
TJR DELTA 56520-ET	840003010355267						
TJR DELTA 56521-ET	840003010355268						
TJR DELTA ADEL 32105-ET	840003126776110						
TJR DELTA ADEL 32124-ET	840003126776129						
TJR DELTA ADEL 32144-ET	840003126776149						1
TJR DELTA ADEL 32145-ET	840003126776150						1
TJR DELTA ADEL 32170-ET	840003126776175						
TJR DELTA ADEL 32182-ET	840003126776187						
TJR DELTA ADEL 32198-ET	840003126776203						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TJR DESTRY DELTA 56498-ET	840003010355245						
TJR DICE DNVR 56468-ET	840003010355215						
TJR DICE DNVR 56471-ET	840003010355218						
TJR DICE DNVR 56472-ET	840003010355219						
TJR DICE DNVR 56475-ET	840003010355222						
TJR DICE DNVR 56476-ET	840003010355223						
TJR DICE DNVR 56478-ET	840003010355225						
TJR DICE DNVR 56479-ET	840003010355226						
TJR DICE RUB 62630	840003010366377						
TJR DILLY RUB 62576-ET	840003010366323						
TJR DILLY RUB 62577-ET	840003010366324						
TJR DILLY RUB 62631	840003010366378						
TJR DILLY SEND 56446-ET	840003010355193					C	
TJR DILLY SENDER 56439-ET	840003010355186						
TJR DILLY SENDER 56440-ET	840003010355187						
TJR DIRECTOR 56528-ET	840003010355275						
TJR DIRECTOR 56533-ET	840003010355280						
TJR DIRECTOR 56540-ET	840003010355287						
TJR DIRECTOR 56555-ET	840003010355302						
TJR DOUBLE DOWN 2187-ET	USA 72434193						
TJR DOUBLE DOWN DS 56356	840003010355103						
TJR DOZER 32469-ET	840003126776474						
TJR DOZER 32494-ET	840003126776499		C				
TJR DOZER 61194-ET	840003010364941						
TJR DOZER 62666-ET	840003010366413						
TJR DOZER 62668-ET	840003010366415						
TJR DOZER 62669-ET	840003010366416						
TJR DOZER 62674-ET	840003010366421						
TJR EARN PENNY 2379-ET	USA 72963547						
TJR EARN PRANCY 2385-ET	USA 72979645						
TJR EARNHARDT 2139-ET	USA 72437686						
TJR EXTASY DELTA 56546	840003010355293						
TJR FARNEAR BH JAC 57531-ET	840003010356278						3
TJR GENOSOURCE 31925-ET	840003126775930						
TJR GENOSOURCE 31955-ET	840003126775960						
TJR GENOSOURCE SS 31790-ET	840003126775795						
TJR GLISTEN EQUINX GLAZE-ET	USA 72127315						
TJR LINK-UP DIVINE	USA 74250854						
TJR LITHIUM PARADISE-ET	840003012559555						
TJR LITHIUM PATRIOT-ET	840003012559567						
TJR LITHIUM PEEK A BOO-ET	840003012559577						
TJR LITHIUM PERSIA-ET	840003012559566						
TJR LITHIUM PRIMROSE-ET	840003012559597						
TJR LOVE DELTA 56559	840003010355306						
TJR MAD TANGO 55533-ET	840003010354280						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TJR MADELYN BELUGA 57611-ET	840003010356358			C			
TJR MADELYN BELUGA 57659-ET	840003010356406			C			
TJR MCCUTCH DE-ANNA-ET	840003011129974						
TJR MCCUTCHEN DELLA 2212-ET	USA 72464027						
TJR MCCUTCHEN DIAMOND-ET	USA 72127330						
TJR MCCUTCHEN DICE-ET	USA 72127339						
TJR MEGALYN 56309	840003010355056						
TJR MEGAPARTY 54564-ET	840003010353311						
TJR MEGASIRE 56501	840003010355248						
TJR MEGASIRE 62696-ET	840003010366443						
TJR MERIDIAN PEANUT 2233-ET	USA 72619872						
TJR MOGUL DINAMITE-ET	USA 72127406						
TJR MOGUL PACIFICA 2192-ET	USA 72434196						
TJR MONTROSS DANA-ET	USA 73999364						
TJR MONTROSS DONNA-ET	USA 73999362						
TJR OCD COLT 45 2342-ET	840003013463964						
TJR PAIGE NOM 60032-ET	840003010363779						
TJR PANDA BEAR 2205-ET	USA 72464032						
TJR PANDA BEAR DELT 56374	840003010355121						
TJR PANDA DIRECTOR 56558-ET	840003010355305						
TJR PATIENCE 18005-ET	840003012559611						
TJR PATIENCE FLAME 56293-ET	840003010355040						
TJR PATIENCE FLAME 56294-ET	840003010355041						
TJR PATIENCE FLAME 56297-ET	840003010355044						
TJR PATIENCE FLAME 56299-ET	840003010355046						
TJR PATIENCE FLAME 56300-ET	840003010355047						
TJR PATIENCE OAK 56284-ET	840003010355031						
TJR PATIENCE OAK 56285-ET	840003010355032						
TJR PATIENCE OAK 56286-ET	840003010355033						
TJR PATIENCE OAK 56288-ET	840003010355035						
TJR PATIENCE OAK 56290-ET	840003010355037						
TJR PATIENCE PARK 2025-ET	USA 72437572						
TJR PATIENCE PIXIE 2007-ET	USA 72437554						
TJR PATIENCE POMPEY 2032-ET	USA 72437579						
TJR PATIENCE PRETTY 2015-ET	USA 72437562						
TJR PATIENCE SS 56291-ET	840003010355038						
TJR PEANUT MEGA 56418	840003010355165						
TJR PENNY 31851-ET	840003126775856						
TJR PENNY DELTA 62659	840003010366406						
TJR PENNY DENV 56470-ET	840003010355217						
TJR PENNY DENV 62607-ET	840003010366354						
TJR PENNY FLAMER 56441-ET	840003010355188						
TJR PENNY FLM 56443-ET	840003010355190						
TJR PRANCY DOZR 62571	840003010366318						
TJR PRESTIGE ALLIECAT-ET	840003013177307						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TJR PRESTIGE ANSWER-ET	840003013177496						
TJR PRESTIGE OAK 57419-ET	840003010356166						
TJR RUBICON 54572-ET	840003010353319						
TJR RUBICON 56503-ET	840003010355250						
TJR RUBICON 62693-ET	840003010366440						
TJR RUBICON 62694-ET	840003010366441						
TJR RUBICON 62695-ET	840003010366442						
TJR RUBICON ADEL 32072-ET	840003126776077						1
TJR RUBICON ADEL 32074-ET	840003126776079						
TJR RUBICON ADEL 32078-ET	840003126776083						
TJR RUBICON ADEL 32088-ET	840003126776093						1
TJR SNOW POND 31138-ET	840003126775143						
TJR SNOWBALL MG 31656	840003126775661						
TJR SPECIAL 32187-ET	840003126776192						
TJR SPECIAL JSP 32089-ET	840003126776094						
TJR SPECIAL KB 31936-ET	840003126775941						
TJR SPECIAL KB 31948-ET	840003126775953						
TJR SPECIAL KB 31950-ET	840003126775955						
TJR SPECIAL MON 32316-ET	840003126776321						
TJR SPECIAL ROD 54794-ET	840003010353541						
TJR SPECIAL TANGO 54676-ET	840003010353423		C				
TJR TAMMY DELTA 56371	840003010355118						
TJR TAMMY DRACO 31469-ET	840003126775474						1
TJR TAMMY MEGA 54375-ETS	840003010353122						
TJR TAMMY MEGA 54552-ET	840003010353299						
TJR TAMMY MEGA 56319-ET	840003010355066						
TJR UNO DAISY 2196-ET	USA 72434198						
TJR UNO DAYDREAM 2206-ET	USA 72464033						
TJR UNO DEIDRA 2204-ET	USA 72464031						
TJR VAIL AHMYA 55300-ET	840003010354047						
TJR VAIL AHMYA 57437-ET	840003010356184						1
TJR VAIL SHOTGLASS 55263-ET	840003010354010						
TJR-BLONDIN E RODG 54376-ET	840003010353123						
TJR-BLONDIN EXE MG 57945-ET	840003010356692						
TJR-BLONDIN ROD 54429-ET	840003010353176						
TJR-BLONDIN ROG 54397-ET	840003010353144						
TJR-BUTZ 737 SHOT 30718-ET	840003126774723						
TJR-BUTZ 737 SS 30786-ET	840003126774791						
TJR-BUTZ GLOBE 31795-ET	840003126775800						
TJR-BUTZ GLOBE 31918-ET	840003126775923						
TJR-BUTZ GLOBE 54791-ET	840003010353538						
TJR-NF RUB DESIG 32140-ET	840003126776145						
TJR-NF SHAKN MGSIRE 56349	840003010355096						
TJR-NFG AKA RUB 56392	840003010355139		C				
TJR-SAN-DAN AUDRI 54570-ET	840003010353317						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TJR-SAN-DAN SAMARA 56292-ET	840003010355039						
TJR-VAIL SHOTGLASS 118-ET	840003012573570						
TJR-VAIL SHOTGLASS 55268-ET	840003010354015						
TK-PLAIN-VIEW DA DIVA	USA 143137502		C				
TKGTD EARNHDT TEXAS 563	USA 73659040						
TKI-DEE KR DURHAM ALEVE-ET	USA 138692870						
TME ADONIS MERTYL	USA 71914534		C				
TME ATOMIC HEATHER	USA 74128766						3
TME ATOMIC MAPLE	USA 74128776						3
TME CM MEDARY	USA 71002143						3
TME DEMPSEY ALI-RED	USA 71914532						
TME DEMPSEY CELINE	USA 71914488						
TME DEMPSEY GREASY	USA 71914457						1
TME DEMPSEY JAMBOREE	USA 71914459						1
TME EMERALD ALDONA	USA 71914523	C					
TME EMERALD EVE	USA 71914525						
TME ERASER HENRIETTA-ET	USA 74128799						1
TME EXPLODE LACE	USA 71914538						
TME FRISKY JAM	USA 71914530	C					
TME GOLDEN DREAMS CHARITY	USA 74128795						
TME HERO JODIE	USA 71914451						
TME MAN-O-MAN CONFETTI	USA 71914486						
TME PROXY HENNI-ET	USA 71914452						1
TME PROXY TINKERBELL-RED	USA 71914450						
TME SHAQUILLE TALIA	USA 65236547						
TME SYMPAT ADDILYN	USA 71914526						
TMK ADDICTION RUM-RED	USA 73670705						2
TMK ADDICTION SHASTY	USA 73670704	C					1
TMK ADDICTION SMASH	USA 73670702						1
TMK ATWOOD BITCHN	USA 69516164						
TMK BROKAW HALO	USA 73670703						
TMK EARNHRD SEXONTHEFARM-ET	USA 71926111						
TMK EARNHRD SOHORNY	USA 71926113	C					
TMK EPIC SUPERCRACKN-ET	USA 69516184						
TMK EPIC SUPERGHETTOGIRL-ET	USA 69516185						
TMK EXPLODE HOTTY	USA 71926093						
TMK GOLDCHIP HADLEY	USA 71926134						
TMK GOLDCHIP STATUS	USA 69516168						
TMK GOLDSUN 244-ET	USA 71926136	C					
TMK GOLDSUN 245-ET	USA 71926137						
TMK JEEVES SUPERSEXY-ET	USA 66132872						
TMK MAC SUPERFLY-ET	USA 69516139	C					
TMK MAN-O-MAN SUPERFAB-ET	USA 69516140	C					
TMK MILLION SUPERSWEET-ET	USA 66132867						
TMK MILLION SUPERTRAMP-ET	USA 66132870	C					



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TMK MORTY SHASTA	USA 61872054	C					
TMK OAK SLAPPINASS	USA 71926117						
TMK PK JEEVES 5051-ET	USA 68997308	C					
TMK RUDY SUPERFREAK	USA 61872075	C					
TMK SANCHEZ PERFECT	USA 69516143						
TMK SANCHEZ SKIP-GONAKED	USA 71926099						
TMK SHAMROCK HUMPY	USA 71926116						
TMK SHAMROCK SEASHELLS-ET	USA 69516166						
TMK SHAMROCK SHAWTY-ET	USA 69516157						
TMK SHAMROCK STARDOM-ET	USA 69516165						
TMK SHAMROCK SUGAR-ET	USA 69516158						
TMK SUPERSIRE SHWEET-ET	USA 71926115						
TMK SUPERSIRE SUPRA-ET	USA 71926112						
TML LARSLAND RACHEL RAIN	840003011730494						
TN-ARROWHEAD ADVENT JOLENE	USA 71482609						
TN-ARROWHEAD CLT GEM-RED-ET	USA 72438811						1
TN-ARROWHEAD GOLD CHIP ROXY	USA 72438812						
TN-ARROWHEAD JABIR JABANA	USA 74064191						
TN-ARROWHEAD MOGUL RONNI	USA 74064192						
TN-ARROWHEAD POLE LIBBY	USA 71482610						
TNT-G FB CHER-ET	USA 142105971		C				
TNT-G FB CLAIR-ET	USA 142106002		C				
TNT-G SPEAR CLARITY-ET	USA 140721205		C				
TNT-G SPEAR CRYSTAL-ET	USA 140734522		C				
TO-CON DEFENDER RALEIGH	840003131666059						
TO-CON KINGBOY GRACIE	840003131666065						
TO-CON KINGBOY SPEEDY	840003131666102						
TO-CON SWAGGER TEQUILA	840003131666084						
TO-CON YODER BEBOP	840003135402067						
TO-MAR ATWD GAMBRHIA-RED-ET	USA 143038773						
TO-MAR ATWD GLAMOUR-RED-ET	USA 143067504						
TO-MAR ATWD GRANDEUR-RED-ET	USA 143072962						
TO-MAR ATWOOD GARDENIA-ET	USA 143566236						
TO-MAR ATWOOD GENEVIEVE-ET	USA 143421980						
TO-MAR ATWOOD GIANNA-RED-ET	USA 143439631						
TO-MAR ATWOOD GIDGET-RED-ET	USA 143440479						
TO-MAR ATWOOD GLORIANA-ET	USA 143416072						
TO-MAR ATWOOD GRACELYN-ET	USA 143566245						
TO-MAR ATWOOD GRETTA-RED-ET	USA 143439622						
TO-MAR ATWOOD GWENDOLINE-ET	USA 143566058						
TO-MAR ATWOOD GWENDOLYN-ET	USA 142994658						
TO-MAR BRADNICK GABRIELE-ET	USA 143566254						
TO-MAR BRADNICK GALA-RED-ET	USA 143566263						
TO-MAR BRADNICK GENIE-ET	USA 142994630						
TO-MAR BRADNICK GIGI-ET	USA 142994649						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TO-MAR BRADNICK GISELLE-ET	USA 143507422						
TO-MAR BYWAY GRACELAND	USA 143641807						
TO-MAR CORVETTE BRIELLE	USA 143362887						
TO-MAR CORVETTE GENA-RED-ET	USA 143022190						
TO-MAR DEFIANT BEGONIA-ET	USA 143280518						
TO-MAR DEFIANT BRANDY-ET	USA 143267968						
TO-MAR DEFIANT BRISTOL-ET	USA 143280602						
TO-MAR DEFIANT BYANCA-ET	USA 143267977						
TO-MAR DEMPSEY EMBER-ET	USA 142592258						
TO-MAR DEMPSEY EMILIA-ET	USA 142592306						1
TO-MAR DESTINED M&M-ET	USA 142676323						
TO-MAR DESTINED MIRA-RED-ET	USA 142676332						3
TO-MAR DIESEL ADDY	USA 142676305						3
TO-MAR DUNDEE FIRESIDE	USA 69608866						
TO-MAR DURHAM FLORAL-ET	USA 129409524	C					
TO-MAR DUSK EMMA-ET	USA 142592276						
TO-MAR ERISE	USA 141721637	C					
TO-MAR FABRIC BELLA-RED-ET	USA 143280509						3
TO-MAR GILLESPIY MARCY	USA 143002208						3
TO-MAR GLD DREAM BENTLEY-ET	USA 143296043						
TO-MAR GOLDN DREAMS BORA-ET	USA 143296052						
TO-MAR MAC DELIGHT-ET	USA 140003143						1
TO-MAR MCCUTCHEN GINGER-RED	USA 142917776						
TO-MAR MR BURNS BARBIE	USA 140029844		C				3
TO-MAR MR BURNS MACY-RED-ET	USA 140051285						3
TO-MAR NIAGRA DREY	USA 141337166						
TO-MAR OAK GENEVA-RED-ET	USA 142793547						
TO-MAR SHOTTLE DORY-ET	USA 140712964					C	
TOC-FARM ALLEN AMYLY	ITA 53000628285						
TOC-FARM SNOW FLANSCO-ET	ITA 53990097565			C			
TOG BRU-LEE YANO ABBY	USA 66895520						
TOG SIDEBET MENASHA	USA 58903905						
TOGA AUTOPILOT PAIGE	USA 142255395						
TOGA PONTIAC REALITY	USA 142255386						
TOGGVIEW ROMA-RED	USA 74455542						1
TOL-JE-SO INTEGRITY PETUNIA	USA 61260382						
TOLAMIKA GOLDWYN FAITHFUL	CAN 8979358						1
TOLLENAAR-SI KARSTEN 7356	840003008872431						
TOLLENAAR-SI LAVAMAN OPATE	USA 71360051						1
TOLLENAAR-SI SYRUP 7908	840003010325831						
TOLLENAARS AMBROSE 7838-TW	840003010325761						
TOLLENAARS AMBROSE 7839-TW	840003010325762						
TOLLENAARS BENNIE 7879	840003010325802			C			
TOLLENAARS BENNIE 7904	840003010325827						
TOLLENAARS BENNIE 7906	840003010325829						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS BENNIE 7915	840003010325838						
TOLLENAARS BENSON 7988	840003010325911						
TOLLENAARS BENSON 8017	840003010325940						
TOLLENAARS BENSON 8018	840003010325941						
TOLLENAARS BENSON 8019	840003010325942						
TOLLENAARS BENSON 8031	840003010325954						
TOLLENAARS BENSON 8046	840003010325969			C			
TOLLENAARS BK HAILEY A 1018	USA 72657104						
TOLLENAARS BK RACHEL A 1024	USA 72657110						
TOLLENAARS BKM JULIA A 1022	USA 72657108						
TOLLENAARS BOMB 7827	840003010325750		C				
TOLLENAARS BOMB 7830	840003010325753		C				
TOLLENAARS BOMB 7834	840003010325757						
TOLLENAARS BOMB 7850	840003010325773						
TOLLENAARS BOMB 7869	840003010325792		C	C			
TOLLENAARS BOMB 7871	840003010325794		C				
TOLLENAARS BOMB 7890	840003010325813						
TOLLENAARS BOMB 7895	840003010325818	C					
TOLLENAARS BOOKEM 7643	840003008872718			C			
TOLLENAARS BOOKEM 7991	840003010325914						
TOLLENAARS BOOKEM 8003	840003010325926						
TOLLENAARS BOOKEM 8015	840003010325938						
TOLLENAARS BOOKEM 8022	840003010325945						
TOLLENAARS BOOKEM 8029	840003010325952						
TOLLENAARS BOOKEM 8030	840003010325953						
TOLLENAARS BOOKEM 8033	840003010325956						
TOLLENAARS BOOKEM 8035	840003010325958						
TOLLENAARS BOOKEM 8036	840003010325959						
TOLLENAARS BOOKEM 8040	840003010325963						
TOLLENAARS BOOKM MIA A 1021	USA 72657107						
TOLLENAARS BROWSER 7978	840003010325901						
TOLLENAARS BROWSER 8013-TW	840003010325936			C			
TOLLENAARS BROWSER 8014-TW	840003010325937						
TOLLENAARS CAMELOT 7546	840003008872621						
TOLLENAARS CAMELOT 7551	840003008872626						
TOLLENAARS CAMELOT 7552	840003008872627						
TOLLENAARS CAMELOT 7567	840003008872642						
TOLLENAARS CAMELOT 7570	840003008872645						
TOLLENAARS CAMELOT 7571	840003008872646						
TOLLENAARS CAMELOT 7585	840003008872660						
TOLLENAARS CAPRICORN 7535	840003008872610						
TOLLENAARS CHICAGO 7436	840003008872511						
TOLLENAARS CNSTANTN 7749-TW	840003008872824						3
TOLLENAARS COBRA 7522	840003008872597			C			
TOLLENAARS COBRA 7525	840003008872600			C			

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS COBRA 7544	840003008872619						
TOLLENAARS COBRA 7555	840003008872630						
TOLLENAARS COBRA 7560	840003008872635			C			
TOLLENAARS COBRA 7563	840003008872638			C			
TOLLENAARS COBRA 7565	840003008872640			C			
TOLLENAARS COBRA 7577	840003008872652						
TOLLENAARS COBRA 7579	840003008872654			C			
TOLLENAARS COBRA 7582	840003008872657			C			
TOLLENAARS COBRA 7591	840003008872666			C	C		
TOLLENAARS COBRA 7596	840003008872671			C			
TOLLENAARS COBRA 7604-TW	840003008872679			C			
TOLLENAARS COBRA 7606	840003008872681						
TOLLENAARS COBRA 7612	840003008872687						
TOLLENAARS COBRA 7619	840003008872694						
TOLLENAARS COBRA 7626	840003008872701						
TOLLENAARS COBRA 7631	840003008872706						
TOLLENAARS COBRA 7637	840003008872712						
TOLLENAARS COBRA 7650	840003008872725			C			
TOLLENAARS COBRA 7653	840003008872728			C			
TOLLENAARS COBRA 7661	840003008872736						
TOLLENAARS COBRA 7666	840003008872741						
TOLLENAARS COBRA 7684	840003008872759						
TOLLENAARS COBRA 7693-TW	840003008872768			C			
TOLLENAARS COBRA 7694-TW	840003008872769						
TOLLENAARS COBRA 7698	840003008872773			C			
TOLLENAARS COBRA 7704	840003008872779						
TOLLENAARS CONSTANTINE 7506	840003008872581						
TOLLENAARS CONSTANTINE 7519	840003008872594						
TOLLENAARS CONSTANTINE 7540	840003008872615						3
TOLLENAARS CONSTANTINE 7550	840003008872625						
TOLLENAARS CONSTANTINE 7553	840003008872628						3
TOLLENAARS CONSTANTINE 7554	840003008872629						
TOLLENAARS CONSTANTINE 7642	840003008872717			C			3
TOLLENAARS CONSTANTINE 7644	840003008872719						
TOLLENAARS CONSTANTINE 7645	840003008872720						3
TOLLENAARS CONSTANTINE 7654	840003008872729						
TOLLENAARS CONSTANTINE 7657	840003008872732						3
TOLLENAARS CONSTANTINE 7659	840003008872734						3
TOLLENAARS CONSTANTINE 7662	840003008872737						3
TOLLENAARS CONSTANTINE 7664	840003008872739						3
TOLLENAARS CONSTANTINE 7665	840003008872740						
TOLLENAARS CONSTANTINE 7669	840003008872744						
TOLLENAARS CONSTANTINE 7671	840003008872746						
TOLLENAARS CONSTANTINE 7672	840003008872747						3
TOLLENAARS CONSTANTINE 7674	840003008872749						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS CONSTANTINE 7678	840003008872753						3
TOLLENAARS CONSTANTINE 7679	840003008872754						
TOLLENAARS CONSTANTINE 7681	840003008872756						
TOLLENAARS CONSTANTINE 7703	840003008872778						
TOLLENAARS CONSTANTINE 7707	840003008872782			C			3
TOLLENAARS CONSTANTINE 7770	840003010325693						
TOLLENAARS CONSTANTINE 7874	840003010325797						
TOLLENAARS CONSTANTINE 7897	840003010325820						
TOLLENAARS DENIM 7593	840003008872668						
TOLLENAARS DISCUS 7534	840003008872609						
TOLLENAARS DYNAMIC 7353	840003008872428			C			
TOLLENAARS DYNAMIC 7359	840003008872434						
TOLLENAARS DYNAMIC 7367	840003008872442						
TOLLENAARS DYNAMIC 7371	840003008872446						
TOLLENAARS DYNAMIC 7373	840003008872448			C			
TOLLENAARS DYNAMIC 7374	840003008872449						
TOLLENAARS DYNAMIC 7375	840003008872450			C			
TOLLENAARS DYNAMIC 7377	840003008872452						
TOLLENAARS DYNAMIC 7381	840003008872456						
TOLLENAARS DYNAMIC 7382	840003008872457			C			
TOLLENAARS DYNAMIC 7383	840003008872458			C			
TOLLENAARS DYNAMIC 7384	840003008872459			C			
TOLLENAARS DYNAMIC 7385	840003008872460			C			
TOLLENAARS DYNAMIC 7386	840003008872461						
TOLLENAARS DYNAMIC 7388	840003008872463						
TOLLENAARS DYNAMIC 7389	840003008872464			C			
TOLLENAARS DYNAMIC 7390	840003008872465			C			
TOLLENAARS DYNAMIC 7394	840003008872469						
TOLLENAARS DYNAMIC 7395	840003008872470			C			
TOLLENAARS DYNAMIC 7400	840003008872475						
TOLLENAARS DYNAMIC 7404	840003008872479						
TOLLENAARS DYNAMIC 7407	840003008872482						
TOLLENAARS DYNAMIC 7409	840003008872484			C			
TOLLENAARS DYSON 7776	840003010325699						
TOLLENAARS DYSON 7801	840003010325724						
TOLLENAARS DYSON 7808	840003010325731						
TOLLENAARS DYSON 7815	840003010325738						
TOLLENAARS DYSON 7817	840003010325740						
TOLLENAARS DYSON 7818	840003010325741						
TOLLENAARS DYSON 7819	840003010325742						
TOLLENAARS DYSON 7820	840003010325743						
TOLLENAARS DYSON 7822	840003010325745						
TOLLENAARS DYSON 7825	840003010325748						
TOLLENAARS DYSON 7826	840003010325749						
TOLLENAARS DYSON 7829	840003010325752						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS DYSON 7831	840003010325754						
TOLLENAARS DYSON 7833	840003010325756						
TOLLENAARS DYSON 7837	840003010325760						
TOLLENAARS DYSON 7840	840003010325763						
TOLLENAARS DYSON 7843	840003010325766						
TOLLENAARS DYSON 7844	840003010325767						
TOLLENAARS DYSON 7848	840003010325771						
TOLLENAARS DYSON 7849	840003010325772						
TOLLENAARS DYSON 7854-TW	840003010325777						
TOLLENAARS DYSON 7855	840003010325778						
TOLLENAARS DYSON 7857	840003010325780						
TOLLENAARS DYSON 7858	840003010325781						
TOLLENAARS DYSON 7860	840003010325783						
TOLLENAARS DYSON 7862	840003010325785						
TOLLENAARS DYSON 7866	840003010325789						
TOLLENAARS DYSON 7867	840003010325790						
TOLLENAARS DYSON 7868	840003010325791						
TOLLENAARS DYSON 7875	840003010325798						
TOLLENAARS DYSON 7876	840003010325799						
TOLLENAARS DYSON 7882	840003010325805						
TOLLENAARS EQTR 7542	840003008872617						
TOLLENAARS EQUATOR 7482	840003008872557						
TOLLENAARS EQUATOR 7490	840003008872565						
TOLLENAARS EQUATOR 7496	840003008872571						
TOLLENAARS EQUATOR 7503	840003008872578						
TOLLENAARS EQUATOR 7512	840003008872587						
TOLLENAARS EQUATOR 7531	840003008872606						
TOLLENAARS FANTA 7398	840003008872473						
TOLLENAARS FANTA 7411	840003008872486						
TOLLENAARS FANTA 7413	840003008872488						
TOLLENAARS FANTA 7416	840003008872491						
TOLLENAARS FANTA 7418	840003008872493	C					
TOLLENAARS FANTA 7420	840003008872495						
TOLLENAARS FANTA 7421	840003008872496						
TOLLENAARS FANTA 7423	840003008872498						
TOLLENAARS FANTA 7424	840003008872499						
TOLLENAARS FANTA 7425	840003008872500						
TOLLENAARS FANTA 7426	840003008872501						
TOLLENAARS FANTA 7435	840003008872510			C			
TOLLENAARS FANTA 7439	840003008872514						
TOLLENAARS FANTA 7448	840003008872523						
TOLLENAARS FANTA 7449	840003008872524						
TOLLENAARS FANTA 7450	840003008872525						
TOLLENAARS FANTA 7451	840003008872526						
TOLLENAARS FANTA 7454	840003008872529						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS FANTA 7457	840003008872532						
TOLLENAARS FANTA 7467-TW	840003008872542						
TOLLENAARS FANTA 7468-TW	840003008872543						
TOLLENAARS FANTA 7469	840003008872544						
TOLLENAARS FANTA 7470	840003008872545	C					
TOLLENAARS FANTA 7471	840003008872546						
TOLLENAARS FIREBIRD 7894	840003010325817				C		
TOLLENAARS FRANZ 7484	840003008872559						
TOLLENAARS FRANZ 7505	840003008872580	C					
TOLLENAARS FRANZ 7507	840003008872582	C					
TOLLENAARS FRANZ 7517	840003008872592						
TOLLENAARS FREDDIE 6513	840003007398591						
TOLLENAARS FREDDIE 6574	840003007398652						
TOLLENAARS FREDDIE 6588	840003007398666						
TOLLENAARS FUTURE 7616	840003008872691						
TOLLENAARS GREATEST 7569	840003008872644						
TOLLENAARS GREATEST 7589	840003008872664						
TOLLENAARS HANDY 7402	840003008872477						
TOLLENAARS HANDY 7403	840003008872478						
TOLLENAARS HANDY 7405	840003008872480						
TOLLENAARS HANDY 7417	840003008872492						
TOLLENAARS HANDY 7419	840003008872494						
TOLLENAARS HANDY 7440	840003008872515						
TOLLENAARS HANDY 7445	840003008872520						
TOLLENAARS HANDY 7460	840003008872535						
TOLLENAARS HANDY 7461	840003008872536						
TOLLENAARS HERALD 1624	USA 60499020						
TOLLENAARS JEHOSEPHAT 7842	840003010325765						
TOLLENAARS JONNY 7923	840003010325846						
TOLLENAARS JONNY 7925	840003010325848						
TOLLENAARS JONNY 7934	840003010325857						
TOLLENAARS JONNY 7936	840003010325859						
TOLLENAARS JONNY 7944	840003010325867				C		
TOLLENAARS JONNY 7945	840003010325868			C			
TOLLENAARS JONNY 7949	840003010325872						
TOLLENAARS JONNY 7953	840003010325876			C			
TOLLENAARS JUTLAND 7929	840003010325852					C	
TOLLENAARS JUTLAND 7940	840003010325863					C	
TOLLENAARS KARSTEN 6812	840003007843832						
TOLLENAARS KARSTEN 7354	840003008872429						
TOLLENAARS KARSTEN 7358	840003008872433						
TOLLENAARS KARSTEN 7362	840003008872437						
TOLLENAARS LABELLE CLAIR	USA 15759356						
TOLLENAARS LANTRN 7959	840003010325882						
TOLLENAARS LANTRN 7965	840003010325888						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS LANTRN 7996	840003010325919						
TOLLENAARS LANTRN 8011	840003010325934						
TOLLENAARS LEDLEY 7543	840003008872618						
TOLLENAARS LEDLEY 7557	840003008872632						
TOLLENAARS LEDLEY 7561	840003008872636			C			
TOLLENAARS LEDLEY 7562	840003008872637						
TOLLENAARS LEDLEY 7566	840003008872641						
TOLLENAARS LEWIS 7462	840003008872537						
TOLLENAARS LSTCHNCE 7963	840003010325886						
TOLLENAARS LSTCHNCE 7968	840003010325891						
TOLLENAARS LSTCHNCE 7970-TW	840003010325893		C				
TOLLENAARS LSTCHNCE 7972	840003010325895						
TOLLENAARS LSTCHNCE 7981	840003010325904						
TOLLENAARS LSTCHNCE 7985	840003010325908		C				
TOLLENAARS LSTCHNCE 7992	840003010325915						
TOLLENAARS LSTCHNCE 8026	840003010325949						
TOLLENAARS MARIAN 7716-TW	840003008872791						
TOLLENAARS MARIAN 7717-TW	840003008872792						
TOLLENAARS MARIAN 7734	840003008872809						
TOLLENAARS MARIAN 7735	840003008872810			C			
TOLLENAARS MARIAN 7739	840003008872814						
TOLLENAARS MARIAN 7748	840003008872823						
TOLLENAARS MARIAN 7752	840003010325675			C			
TOLLENAARS MARIAN 7764-TW	840003010325687						
TOLLENAARS MARIAN 7765-TW	840003010325688						
TOLLENAARS MARIAN 7787	840003010325710						
TOLLENAARS MARIAN 7790-TW	840003010325713						
TOLLENAARS MARIAN 7791-TW	840003010325714						
TOLLENAARS MARIAN 7793	840003010325716			C			
TOLLENAARS MARIAN 7805	840003010325728						
TOLLENAARS MASK 8041	840003010325964						
TOLLENAARS MIKE 2151	USA 60930849						
TOLLENAARS MINOS 7352	840003008872427						
TOLLENAARS MINOS 7357	840003008872432			C			
TOLLENAARS MINOS 7360	840003008872435						
TOLLENAARS MINOS 7410	840003008872485			C			
TOLLENAARS MINOS 7412	840003008872487			C			
TOLLENAARS MINOS 7427	840003008872502			C			
TOLLENAARS MINOS 7428	840003008872503						
TOLLENAARS MINOS 7432	840003008872507						
TOLLENAARS MINOS 7438	840003008872513		C	C			
TOLLENAARS MINOS 7444	840003008872519			C			
TOLLENAARS MINOS 7456	840003008872531			C			
TOLLENAARS MINOS 7472	840003008872547			C			
TOLLENAARS MINOS MUTE 1320	840003009329021						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS MONTGOMERY 7603	840003008872678						
TOLLENAARS MONTGOMERY 7607	840003008872682						
TOLLENAARS MONTGOMERY 7617	840003008872692						
TOLLENAARS MOSAIC 7510	840003008872585						
TOLLENAARS MOSAIC 7523	840003008872598						
TOLLENAARS NOVALIS DENISE	USA 127709468	C					
TOLLENAARS O MAN 3018-ET	USA 61809065						
TOLLENAARS O MAN 3162-ET	USA 61809209						
TOLLENAARS O MAN 3288-ET	USA 61809335	C		C			
TOLLENAARS O MAN 3490	USA 61809537						
TOLLENAARS O MAN 3494	USA 61809541			C			
TOLLENAARS OBSERVER 6949	840003007843969			C			
TOLLENAARS OBSERVER 7660	840003008872735						
TOLLENAARS OBSERVER 7676-TW	840003008872751			C			
TOLLENAARS OBSERVER 7680	840003008872755						
TOLLENAARS OBSERVER 7686	840003008872761						
TOLLENAARS OBSERVER 7687	840003008872762						
TOLLENAARS OBSERVER 7690	840003008872765						
TOLLENAARS OBSERVER 7719	840003008872794						
TOLLENAARS OBSERVER 7724	840003008872799						
TOLLENAARS OBSERVER 7731	840003008872806						
TOLLENAARS OBSERVER 7738	840003008872813						
TOLLENAARS OBSERVER 7980	840003010325903						
TOLLENAARS OBSERVER 7982	840003010325905						
TOLLENAARS OBSERVER 7986	840003010325909						
TOLLENAARS OBSERVER 7987	840003010325910						
TOLLENAARS OBSERVER 7995	840003010325918						
TOLLENAARS ODIS 7509	840003008872584						
TOLLENAARS ODIS 7516	840003008872591						
TOLLENAARS ODIS 7520	840003008872595						
TOLLENAARS ODIS 7526-TW	840003008872601						
TOLLENAARS ODIS 7527	840003008872602						
TOLLENAARS ODIS 7528	840003008872603						
TOLLENAARS ODIS 7532	840003008872607						
TOLLENAARS ODIS 7538	840003008872613						
TOLLENAARS ODIS 7572	840003008872647						
TOLLENAARS ODIS 7594	840003008872669						
TOLLENAARS ODIS 7601	840003008872676						
TOLLENAARS ODIS 7620	840003008872695						
TOLLENAARS ODIS 7622	840003008872697						
TOLLENAARS ODIS 7627	840003008872702						
TOLLENAARS ODIS 7647	840003008872722						
TOLLENAARS ODIS 7685	840003008872760						
TOLLENAARS ODIS 7688	840003008872763						
TOLLENAARS ODIS 7696	840003008872771						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS ODIS 7697	840003008872772						
TOLLENAARS ODIS 7750	840003010325673						
TOLLENAARS ODIS 7753	840003010325676						
TOLLENAARS ODIS 7754	840003010325677						
TOLLENAARS ODIS 7757	840003010325680						
TOLLENAARS ODIS 7768	840003010325691						
TOLLENAARS ODIS 7774	840003010325697						
TOLLENAARS ODIS 7778	840003010325701						
TOLLENAARS ODIS 7806	840003010325729						
TOLLENAARS ODIS 7823	840003010325746						
TOLLENAARS ODIS 7845	840003010325768						
TOLLENAARS ODIS 7859	840003010325782						
TOLLENAARS ODIS 7909	840003010325832						
TOLLENAARS ODIS 7926	840003010325849						
TOLLENAARS ODIS 7933	840003010325856						
TOLLENAARS ODIS 7942	840003010325865						
TOLLENAARS ODIS 7946	840003010325869						
TOLLENAARS ODIS 7974	840003010325897						
TOLLENAARS OSMOND 7759	840003010325682						
TOLLENAARS PLAN 7913	840003010325836						
TOLLENAARS PLAN 7919	840003010325842			C			
TOLLENAARS PLAN 7920	840003010325843						
TOLLENAARS PLAN 7928	840003010325851						
TOLLENAARS PLAN 7938	840003010325861						
TOLLENAARS PLAN 7954	840003010325877						
TOLLENAARS PLAN 7957	840003010325880						
TOLLENAARS PLAN 7964	840003010325887						
TOLLENAARS PLAN 7967	840003010325890						
TOLLENAARS PLAN 7969	840003010325892						
TOLLENAARS PLAN 7973	840003010325896						
TOLLENAARS PLAN 7975	840003010325898						
TOLLENAARS PLAN 7983	840003010325906						
TOLLENAARS PLAN 7984	840003010325907						
TOLLENAARS PLAN 7993	840003010325916						
TOLLENAARS PLAN 7994	840003010325917						
TOLLENAARS PLAN 8000	840003010325923						
TOLLENAARS PLAN 8002	840003010325925						
TOLLENAARS PLAN 8005	840003010325928						
TOLLENAARS PLAN 8007	840003010325930						
TOLLENAARS PLAN 8008	840003010325931						
TOLLENAARS PLAN 8009	840003010325932						
TOLLENAARS PLAN 8010	840003010325933						
TOLLENAARS PLAYDO 7899	840003010325822						
TOLLENAARS PLAYDO 7912	840003010325835						
TOLLENAARS PORTER 7581	840003008872656						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS PORTER 7636	840003008872711						
TOLLENAARS PRANCE 7922	840003010325845						
TOLLENAARS PRANCE 7939	840003010325862						
TOLLENAARS PRANCE 7950	840003010325873						
TOLLENAARS RAMOS TOLL 8241	USA 61726751						
TOLLENAARS REDEEM 7364	840003008872439						
TOLLENAARS REDEEM 7369	840003008872444						
TOLLENAARS REDEEM 7370	840003008872445					C	
TOLLENAARS REDEEM 7379	840003008872454						
TOLLENAARS REDEEM 7380	840003008872455			C			
TOLLENAARS REDEEM 7408	840003008872483						
TOLLENAARS RENEW 7706	840003008872781						
TOLLENAARS RENEW 7715	840003008872790						
TOLLENAARS RENEW 7720	840003008872795		C				
TOLLENAARS REVEAL 2099	USA 60930797						
TOLLENAARS RINGO 7856	840003010325779						
TOLLENAARS ROBOTIC 7574	840003008872649						
TOLLENAARS ROBOTIC 7578	840003008872653			C			
TOLLENAARS ROBOTIC 7586	840003008872661						
TOLLENAARS ROBOTIC 7587	840003008872662						
TOLLENAARS ROBOTIC 7590	840003008872665						
TOLLENAARS ROBOTIC 7597	840003008872672						
TOLLENAARS ROBOTIC 7602	840003008872677						
TOLLENAARS ROBOTIC 7608	840003008872683						
TOLLENAARS ROBOTIC 7618	840003008872693						
TOLLENAARS ROBOTIC 7621	840003008872696						
TOLLENAARS ROBOTIC 7632	840003008872707						
TOLLENAARS ROBUST 8042	840003010325965						
TOLLENAARS ROBUST 8045	840003010325968						
TOLLENAARS ROGER 6957	840003007843977						
TOLLENAARS ROGER 7863	840003010325786						
TOLLENAARS ROGER 7870	840003010325793						
TOLLENAARS ROGER 7884	840003010325807						
TOLLENAARS ROGER 7935	840003010325858						
TOLLENAARS ROGER 7990	840003010325913						
TOLLENAARS ROGER 8021	840003010325944						
TOLLENAARS RUSSELL 6770	840003007398848						
TOLLENAARS SAMOA 7609	840003008872684						
TOLLENAARS SAMOA 7623	840003008872698						
TOLLENAARS SAMOA 7633	840003008872708			C			
TOLLENAARS SHAC 7663	840003008872738						
TOLLENAARS SHAC 7712	840003008872787						
TOLLENAARS SHAC 7713	840003008872788						
TOLLENAARS SHAC 7718	840003008872793						
TOLLENAARS SHAMELESS 7599	840003008872674						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS SHAMELESS 7640	840003008872715						
TOLLENAARS SHAMELESS 7641	840003008872716						
TOLLENAARS SHAMELESS 7646	840003008872721						
TOLLENAARS SHAMELESS 7649	840003008872724						
TOLLENAARS SHAMELESS 7651	840003008872726						
TOLLENAARS SHAMELESS 7682	840003008872757						
TOLLENAARS SHAMELESS 7689	840003008872764						
TOLLENAARS SHAMELESS 7743	840003008872818						
TOLLENAARS SHAMELESS 7745	840003008872820						
TOLLENAARS SHAMELESS 7747	840003008872822						
TOLLENAARS SHAMELESS 7751	840003010325674			C			
TOLLENAARS SHAMELESS 7755	840003010325678						
TOLLENAARS SHAMELESS 7756	840003010325679						
TOLLENAARS SHAMELESS 7758	840003010325681						
TOLLENAARS SHAMELESS 7762	840003010325685						
TOLLENAARS SHAMELESS 7766	840003010325689						
TOLLENAARS SHAMELESS 7767	840003010325690						
TOLLENAARS SHAMELESS 7771	840003010325694						
TOLLENAARS SHAMELESS 7775	840003010325698						
TOLLENAARS SHAMELESS 7777	840003010325700						
TOLLENAARS SHAMELESS 7779	840003010325702						
TOLLENAARS SHAMELESS 7783	840003010325706						
TOLLENAARS SHAMELESS 7784	840003010325707						
TOLLENAARS SHAMELESS 7785	840003010325708						
TOLLENAARS SHAMELESS 7786	840003010325709			C			
TOLLENAARS SHAMELESS 7788	840003010325711						
TOLLENAARS SHAMELESS 7802	840003010325725						
TOLLENAARS SHAMELESS 7803	840003010325726		C				
TOLLENAARS SHAMELESS 7804	840003010325727						
TOLLENAARS SHAMELESS 7807	840003010325730						
TOLLENAARS SHAMELESS 7812	840003010325735						
TOLLENAARS SHAMELESS 7814	840003010325737						
TOLLENAARS SHAMELESS 7816	840003010325739						
TOLLENAARS SHAMELESS 7821	840003010325744						
TOLLENAARS SHAMELESS 7836	840003010325759						
TOLLENAARS SHAMELESS7796-TW	840003010325719						
TOLLENAARS SHAMELESS7797-TW	840003010325720						
TOLLENAARS SHAMROCK 7595	840003008872670	C		C			
TOLLENAARS STOKES 7480	840003008872555						
TOLLENAARS STOKES 7483	840003008872558						
TOLLENAARS SUPERFREAK 8016	840003010325939						
TOLLENAARS SUPERFREAK 8025	840003010325948					C	
TOLLENAARS SUPERFREAK 8028	840003010325951					C	
TOLLENAARS SYRUP 7878	840003010325801						
TOLLENAARS SYRUP 7880	840003010325803						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS SYRUP 7881	840003010325804						
TOLLENAARS SYRUP 7887	840003010325810						
TOLLENAARS SYRUP 7888	840003010325811						
TOLLENAARS SYRUP 7893	840003010325816						
TOLLENAARS SYRUP 7898	840003010325821						
TOLLENAARS SYRUP 7914	840003010325837						
TOLLENAARS SYRUP 7916	840003010325839						
TOLLENAARS TONIC 7464	840003008872539						
TOLLENAARS TONIC 7475	840003008872550						
TOLLENAARS TONIC 7486	840003008872561						
TOLLENAARS TONIC 7487	840003008872562			C			
TOLLENAARS TONIC 7488	840003008872563						
TOLLENAARS TONIC 7489	840003008872564			C			
TOLLENAARS TONIC 7498	840003008872573						
TOLLENAARS TONIC 7499	840003008872574						
TOLLENAARS TONIC 7502	840003008872577						
TOLLENAARS TRIB 7442	840003008872517						
TOLLENAARS TRIB 7443-TW	840003008872518						
TOLLENAARS TRIB 7463	840003008872538						
TOLLENAARS TRIB 7466	840003008872541			C			
TOLLENAARS TRIB 7477	840003008872552						
TOLLENAARS TRIB 7479	840003008872554						
TOLLENAARS TRIB 7481	840003008872556						
TOLLENAARS TRIB 7508	840003008872583						
TOLLENAARS TRIB 7521	840003008872596	C					
TOLLENAARS TRIB 7545	840003008872620						
TOLLENAARS TRIB 7549	840003008872624						
TOLLENAARS TRIB 7573	840003008872648						
TOLLENAARS TRIB 7576	840003008872651						
TOLLENAARS TRIB 7580	840003008872655						
TOLLENAARS TRIB 7624	840003008872699						
TOLLENAARS TRIB 7628	840003008872703						
TOLLENAARS TRIB 7667	840003008872742						
TOLLENAARS TRIB 7668	840003008872743						
TOLLENAARS TRIB 7677	840003008872752						
TOLLENAARS TRIB 7699	840003008872774						
TOLLENAARS TRIB 7702	840003008872777						
TOLLENAARS TRIB 7705	840003008872780						
TOLLENAARS TRIB 7711	840003008872786						
TOLLENAARS TRIB 7721	840003008872796						
TOLLENAARS TRIB 7727	840003008872802						
TOLLENAARS TRIB 7728	840003008872803						
TOLLENAARS TRIB 7729	840003008872804			C			
TOLLENAARS TRIB 7744	840003008872819		C				
TOLLENAARS TRIB 7746	840003008872821						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOLLENAARS TRIB 7864	840003010325787						
TOLLENAARS TRIB 7896	840003010325819						
TOLLENAARS TRIB716 7363	840003008872438						
TOLLENAARS TRIB716 7378	840003008872453						
TOLLENAARS TRIB716 7391	840003008872466						
TOLLENAARS TRIB716 7392	840003008872467						
TOLLENAARS TRIB716 7399	840003008872474						
TOLLENAARS TRIB716 7414	840003008872489						
TOLLENAARS TRIB716 7415	840003008872490						
TOLLENAARS TRIB716 7429	840003008872504						
TOLLENAARS TRIB716 7430	840003008872505		C				
TOLLENAARS TRUE 7852	840003010325775						
TOLLENAARS TRUE 7921	840003010325844						
TOLLENAARS TRUMPET 7518	840003008872593						
TOLLENAARS TRUMPET 7524	840003008872599						
TOLLENAARS TRUMPET 7529	840003008872604		C				
TOLLENAARS TRUMPET 7541	840003008872616						
TOLLENAARS TRUMPET 7548	840003008872623						
TOLLENAARS YUENGLING 7511	840003008872586	C					
TOLLENAARS YUENGLING 7514	840003008872589						
TOM-ANNA 2320 GABOR-ET	840003007946795						
TOM-ANNA 2322 GABOR-ET	840003007946797						
TOM-ANNA ASTERIX 2544	840003009499226						
TOM-ANNA CAMELOT 2430-ET	840003008524883	C					
TOM-ANNA CAMELOT 2440-ET	840003008524893	C					
TOM-ANNA CAMELOT 2528-ET	840003009499210						
TOM-ANNA CAMELOT 2531-ET	840003009499213	C					
TOM-ANNA CASTAWAY 2586-ET	840003010761783	C					
TOM-ANNA CASTAWAY 2592-ET	840003010761789						
TOM-ANNA CHAMP PRC3253PO-ET	840003126076156						1
TOM-ANNA CHAMP-P 3199-ET	840003126076102						1
TOM-ANNA CHARGER P 2689	840003010761886						
TOM-ANNA COLT P 2472-ET	840003009499154						
TOM-ANNA COLT P 2488-ET	840003009499170	C					
TOM-ANNA COLT P 2539	840003009499221						
TOM-ANNA COLT P 2553	840003010761750						
TOM-ANNA COMPLEX 2431-ET	840003008524884						
TOM-ANNA COMPLEX 2435-ET	840003008524888						
TOM-ANNA COMPLEX 2437-ET	840003008524890						
TOM-ANNA CROWN 2545	840003009499227			C			
TOM-ANNA DOLO-P 2872-ET	840003011846600						
TOM-ANNA ERASER P 3195-ET	840003126076098						
TOM-ANNA ERASER P 3200	840003126076103						
TOM-ANNA GOLDEN PP-R2899-ET	840003011846627						
TOM-ANNA GRAFEETI 2532-ET	840003009499214						1



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOM-ANNA INDG PREDESTINE-ET	USA 72817664	C					
TOM-ANNA LONG P 2928-ET	840003011846656						
TOM-ANNA MACK 2951-ET	840003013891978						
TOM-ANNA MAXUM 2536	840003009499218						
TOM-ANNA MAXUM 2640	840003010761837						
TOM-ANNA MI 1639 MELANIE-ET	USA 142604377	C					
TOM-ANNA MI 1640 MINNIE-ET	USA 142604368						
TOM-ANNA MILLION 2022-ET	840003005659002						
TOM-ANNA NIFTY 1743	840003001595586						
TOM-ANNA OHIO STYLE P 3021	840003013892048						
TOM-ANNA OHIO STYLE P 3029	840003013892056	C					
TOM-ANNA OHIO STYLE P 3260P	840003126076163						
TOM-ANNA OHIO STYLE P 3325P	840003126076228						
TOM-ANNA PARKER 2704-ET	840003010761901						
TOM-ANNA PARKER P 2784-ET	840003011846512						
TOM-ANNA PARKER-P 2681-ET	840003010761878						1
TOM-ANNA PARKER-P 2726-ET	840003010761923						1
TOM-ANNA PARKER-P 2736-ET	840003010761933						
TOM-ANNA PLANET 1916-ET	840003001595759						
TOM-ANNA POWERBLL 3338PO-ET	840003126076241						
TOM-ANNA POWERBLL 3341PO-ET	840003126076244						
TOM-ANNA PREDESTINE 2881-ET	840003011846609						3
TOM-ANNA RAMOS 1681	840003001595524						
TOM-ANNA RELIEF-P-R 2730-ET	840003010761927						
TOM-ANNA REMARK-P 3306PO-ET	840003126076209						
TOM-ANNA REMARK-P 3320 PO	840003126076223						
TOM-ANNA REMARK-P 3323PO-TW	840003126076226						
TOM-ANNA RUBICON 3302 PO	840003126076205						
TOM-ANNA SABRINA GLDN PP-ET	USA 72817668						
TOM-ANNA SADIE LOT-ET	USA 72817691						
TOM-ANNA SAKRI GOLDEN-PP-ET	USA 72817667						
TOM-ANNA SALLY LOT-P-ET	USA 72817678						
TOM-ANNA SASSY COLT 45-P-ET	USA 72817675						
TOM-ANNA SERIES CLT 45-P-ET	USA 72817672						
TOM-ANNA SERINA STYLE P-ET	USA 72817686						
TOM-ANNA SIGNIF-P 2508	840003009499190						
TOM-ANNA SKYLINE 2967-ET	840003013891994						
TOM-ANNA SUNGOLD OCEANPP-ET	USA 74583796						1
TOM-ANNA SUNNYDAY OCENPP-ET	USA 74583799						
TOM-ANNA SUNSHIN STYLE P-ET	USA 72817683						
TOM-ANNA SWORDFISH OCNPP-ET	USA 74583797						1
TOM-ANNA SYMBOL STYLE P-ET	USA 72817685						
TOM-ANNA TRANS AMY P-ET	USA 172343718						
TOM-ANNA TRANSFORMER P 2877	840003011846605					C	
TOM-ANNA TRANSFORMER-P 2700	840003010761897						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOM-ANNA TRANSFORMER2603-ET	840003010761800						
TOM-ANNA TRANSFORMER2649-ET	840003010761846						
TOM-ANNA TRANSFORMER2651-ET	840003010761848						
TOM-ANNA TRANSFORMER2703-ET	840003010761900						
TOM-ANNA TRANSFORMER2705-ET	840003010761902						
TOM-ANNA TRANSFORMER2706-ET	840003010761903						
TOMBETH ESABELLA	USA 62996189						
TOMBETH GOLD GOLDENEARRING	USA 70309457						1
TOMBETH LINJET EVA-ET	USA 62996124						
TOMBETH SHOTTLE ENHANCE-ET	USA 65934456					C	
TOMBETH SHOTTLE ENSURE-ET	USA 65934454					C	
TOMERTON AIRLIFT DESIRE	USA 73873246						
TOMERTON AIRLIFT ELEKTRO-ET	USA 73873247						
TOMERTON ATWOOD ECHO-ET	USA 73873253		C				
TOMERTON ATWOOD EDEN-ET	USA 73873252						
TOMERTON ATWOOD ELISE-ET	USA 73873254		C				
TOMERTON BRADNICK JOELLE	USA 70636648						
TOMERTON LOOK JOELYNN	USA 70636619						
TOMERTON MOGUL DANICA	USA 70636660						
TOMERTON OBSERVER ELYSIA	USA 70636641						
TOMERTON OBSERVER EVELYN	USA 70636659						
TOMERTON OSMOND DUSK	USA 70636637						
TOMERTON SANCHEZ SKYLAR	USA 69605965						
TOMERTON SYRUP 1939	USA 70636647						
TOMERTON TRUMPET NOLANA	USA 70636630						
TOMKAN AIKMAN ARIEL-RED-ET	USA 73710334						
TOMKAN AIKMAN AVA-RED-ET	USA 73710335						
TOMKAN EMERALD GOLDA	USA 71391811	C					
TOMKAN MERIDIAN MONET	USA 72916748						1
TOMKAN MOGUL MAGIC	USA 73710385						
TOMKAN SAVE SPLENDOR-RED-ET	USA 73710361						
TOMLU OMAN DOTS-ET	USA 136212724						
TON-MAR ADAM COOKIE	USA 136179564						
TON-MAR BRAXTON NOHITTER-ET	USA 143573575						
TON-MAR LAD-P COUNTRY	USA 142582578						
TON-MAR MILLION PRIDE-ET	USA 141592983						1
TON-MAR SHOTTLE PALACE-ET	USA 141929464						1
TON-MAR SHOTTLE PAYPAL-ET	USA 141929473					C	
TON-MAR SHOTTLE RANCH	USA 143430007						
TON-MAR SUEDE PETRA	USA 137800003	C					
TON-MAR SUPERSIRE PRIME-ET	USA 142561685						
TONIC ARMANI SQUISHIE	USA 143098038						
TONIC ATLANTIC ROBIN	USA 142773543						
TONIC MOGUL LEIGH	USA 142932645						
TOOKY-VAL GOLDROY SPITBALL	USA 72458316						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOONE DELTA DABBIE 6068-ET	840003131047824						
TOONE DELTA DABBLE 6072-ET	840003131047828						
TOONE DELTA DABNAY 6067-ET	840003131047823						
TOONE DEST SHANDAISIA 4538	USA 70653687					C	
TOONE IOTA AMETHYST 4631	USA 70653780						
TOONE JORDAN TOPAZ 4628	USA 70653777						
TOONE SJ SYMP LOREAL-RED-ET	USA 72165788		C				
TOONE-HILL B BLACKEYE 4637	USA 70653786			C			
TOONE-HILL LAU SARI 4550-ET	USA 70653699						1
TOP-GUN 1STCLASS CHLOE-ET	840003131303274						
TOP-GUN AC AINZLEY-RED-ET	840003126983241						
TOP-GUN ACTIVATOR BABY-RED	840003126983252						
TOP-GUN ADDICTION LAYLA-RED	840003131303289						1
TOP-GUN ARCHIVE CIRCUS	840003126983223						
TOP-GUN ARCHIVE RAMADA-RED	840003126983242						
TOP-GUN ARMANI GRETEL	840003131303277						
TOP-GUN ATWOOD BANSHEE-ET	USA 73390746						
TOP-GUN BAMA GLAMOUR-RED	USA 72315547						
TOP-GUN COLT-P RAMPAGE-RED	USA 72315524						
TOP-GUN COLT45 LAREDO-ET	USA 73390725						
TOP-GUN DUCATI ROOSTER-RED	840003126983249						
TOP-GUN EPIC SNOWBALL	USA 72888131						
TOP-GUN HONEYBEE MELROSE	840003126983248						
TOP-GUN IOTA SUNRISE	USA 57253052						
TOP-GUN JACEY JOSIE	USA 73390718			C			
TOP-GUN JACKMAN ICON	USA 72315568						
TOP-GUN JIVES JAMAICA	USA 72315551						
TOP-GUN LADD-P MEL	USA 73390738						1
TOP-GUN LEAF IZZA	USA 73390789						
TOP-GUN LITHIUM BAILEY	USA 72888141						
TOP-GUN LITHIUM IZZY	USA 72315556						
TOP-GUN MARMAX GWEN	USA 53710371						
TOP-GUN MAURICE GREAT-TW	USA 72888106						
TOP-GUN MAURICE GRETTA-TW	USA 72888107						
TOP-GUN MAURICE TWINKLE	USA 72315536	C					
TOP-GUN MCCHUT TWIZZLE	840003126983244	C					
TOP-GUN MEGASIRE BAHAMA-ET	840003126983232						
TOP-GUN MEGASIRE BANNER-ET	840003126983234						
TOP-GUN MOGUL INDIGO-ET	USA 73390724						
TOP-GUN MOGUL INDY-ET	USA 73390720						
TOP-GUN MOGUL INITIAL-ET	USA 73390723						
TOP-GUN MOGUL INSPIRE-ET	USA 73390721						
TOP-GUN OAK CASCADE	USA 73390736						
TOP-GUN OLYMPIAN IPAD	USA 73390787						
TOP-GUN PREDESTINE RANGER	840003126983217						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOP-GUN SEC ROCKSTAR-RED-ET	USA 56515149						
TOP-GUN SHOT UNO	USA 72315550						
TOP-GUN SPRING BUGSY-ET	USA 73390785						
TOP-GUN SPRING CASSIE-ET	840003131303284						
TOP-GUN SPRING INTEL	USA 73390786						
TOP-GUN SS SHADY	840003131303275						
TOP-GUN SS SMASH	840003131303276						
TOP-GUN SS SONJA	USA 72315566		C				3
TOP-GUN SSHOT INSANITY-ET	840003131303301						
TOP-GUN SSHOT INSIDIOUS-ET	840003131303299						
TOP-GUN SSIRE BAYWATCH-ET	USA 73390740						
TOP-GUN SUPERSIRE BAYOU-ET	USA 72888132						
TOP-GUN SUPERSIRE BROOKE-ET	USA 73390737						
TOP-GUN YODER CAMARO-ET	840003131303286						
TOP-GUN YODER CAMMIE-ET	840003131303287						
TOP-GUN ZIGGY PRINCESS	USA 72888109						
TOP-GUN ZIGGY SUNDANCE	USA 72315552						
TOP-OF-LINE PICOLO ALI-RED	USA 68579734						3
TOP-OF-LINE SHOTTLE AKIRA	USA 64724432					C	
TOP-RUNG BOLIVER SALLY-ET	USA 139679513					C	
TOP-RUNG BOLIVER SAMMIE-ET	USA 139679540						
TOP-RUNG BOLIVER SARAH-ET	USA 139679522					C	
TOPPACRES 7 CHANC 5740	USA 71859318						
TOPPACRES BOWSER JILLIAN	USA 64361880						
TOPPACRES MANOMN JACQUELINE	USA 64361875						
TOPPACRES PHIL G OLIVIA	USA 64361877			C			
TOPPACRES SHAKESPER HASHTAG	USA 64361881						
TOPPATION CHAIRVAL DESIREE	USA 14814939						
TOPPGLEN ALEXANDER WHOA-ET	USA 141164830						
TOPPGLEN GOLDCHIP MIRASSOU	USA 142039333						
TOPPGLEN GOLDWYN PIXIE	USA 137330960						
TOPPGLEN JEEVES MARTINIQUE	USA 140466809						
TOPPGLEN LEADER MARQUETTE	USA 129737324		C				
TOPPGLEN PASSIONATE	USA 136879053						
TOPPGLEN REALITY DELLY-RED	USA 138320023						
TORYS PARADOX TANYA-RED-ET	USA 134574895						
TOTZ-BRO-II DESTRY DIAMOND	USA 141922252						
TOUCH-OF-DEW T-STORY CUP-ET	USA 138516806						
TOUCHDOWN 1168	840003014503601						
TOUCHDOWN ABSR BRECKEN-ET	USA 69618047						
TOUCHDOWN AIRNET SOCKS-ET	840003009087774						
TOUCHDOWN AIRNET SWEET-ET	840003009087808						
TOUCHDOWN AIRNET SWEETIE-ET	840003009087776						
TOUCHDOWN AMAZING	840003127936045						
TOUCHDOWN ANT SWEETHEART-ET	840003009087773						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOUCHDOWN ARMANI CASH-RED	840003011539810						1
TOUCHDOWN ARMANI LOVER-ET	840003014503608						1
TOUCHDOWN ATWOOD ANGEL	840003011539834						
TOUCHDOWN BEN MEGATRON	840003014503602					C	
TOUCHDOWN BEN PERFECT	840003014503614						
TOUCHDOWN BLASTER	840003127936035						
TOUCHDOWN BRADNICK MOOSE	840003127936068						
TOUCHDOWN BROKAW DANCER	840003014503624		C				
TOUCHDOWN BRONCO COWGIRL	USA 62874513						
TOUCHDOWN CHIP COLLECTOR-ET	840003009087772						
TOUCHDOWN CHOCOLATE CHIP	840003127936048						
TOUCHDOWN CIVIL AMERICAN	840003127936055						
TOUCHDOWN CIVIL WAR	840003127936065						
TOUCHDOWN COLT 45-RED	840003014503623						
TOUCHDOWN COLT HOPE-RC-ET	840003009087823					C	
TOUCHDOWN COLT HOPEFUL-ET	840003009087824						
TOUCHDOWN CORVETTE ELLA	840003127936041						
TOUCHDOWN CORVETTE MAGIC	840003127936180						
TOUCHDOWN CROWN LILAC-RED	840003127936037						1
TOUCHDOWN DEF BREAKUP	840003127936067						
TOUCHDOWN DEFEN COACH-ET	840003014503604						
TOUCHDOWN DEFENDER 1197	840003127936052						
TOUCHDOWN DEFENDER LIGHTER	840003127936042						
TOUCHDOWN DEFENDER MIGGY	840003127936066						
TOUCHDOWN DEFENDER SILVER	840003127936051						
TOUCHDOWN DFNDR SNOWBALL-ET	840003014503615						
TOUCHDOWN FACEBOOK-ET	840003009087810						
TOUCHDOWN FRANCHISE POWER	840003009087771					C	
TOUCHDOWN FREEBIRD-ET	USA 62874514					C	
TOUCHDOWN GOLD BAR-ET	USA 62874511						
TOUCHDOWN HEMI ROCKET	840003014503612						
TOUCHDOWN HUNTER BARRY-ET	840003009087804						
TOUCHDOWN HUNTER STAR-ET	840003009087807						
TOUCHDOWN HUNTER STYLE-ET	840003009087806						
TOUCHDOWN LARGE RACK-ET	840003009087816					C	
TOUCHDOWN LITH LIGHTNING	840003011539839						
TOUCHDOWN MARKUP 1172	840003014503605					C	
TOUCHDOWN MCC PUMPKIN	840003011539809					C	
TOUCHDOWN MILLION BUCKS-ET	USA 62874510					C	
TOUCHDOWN MOGL CONTENDER-ET	840003014503611						
TOUCHDOWN MOGUL BEST	840003014503600						
TOUCHDOWN MOGUL CAMARO-ET	840003014503610						
TOUCHDOWN MOGUL CINNAMIN-ET	840003014503609						3
TOUCHDOWN MONTROSS 1195	840003127936050						
TOUCHDOWN MONTROSS LEGEND	840003127936044						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TOUCHDOWN PLANET BELOVED-ET	USA 62874512						
TOUCHDOWN PLANET BIRDDOG-ET	USA 62874495					C	
TOUCHDOWN POKERFACE	840003009087839						
TOUCHDOWN ROBUST CUTEGIRL	840003011539835						
TOUCHDOWN SAIL RACER	840003009087777						
TOUCHDOWN SROCK BEACH-TW	840003011539824						
TOUCHDOWN SROCK BIRDIE-ET	840003011539828						
TOUCHDOWN SS BANKER	840003014503625						
TOUCHDOWN SS DRACULA	840003014503618		C				
TOUCHDOWN SS LITTLE LUCK-ET	840003011539830						
TOUCHDOWN SS POTLUCK	840003011539847						
TOUCHDOWN SUPER LOUD-ET	840003011539832						
TOUCHDOWN SUPER LUCKY-ET	840003011539827						
TOUCHDOWN SUPERS LOTTO-ET	840003011539831						
TOUCHDOWN UNO TRICKY	840003009087767						
TOUCHDOWN YODER BUICK-ET	840003127936039			C			
TOUCHDOWN YODER BUSY-ET	840003127936040						
TOWER-HAVEN SHMROCK DARLING	USA 142734322						
TOWER-HAVEN WHITE STAR	USA 142249301						
TOWER-RIDGE COCONUT-ET	USA 143137360						1
TOWER-RIDGE DUN KANDI-ET	USA 70456142						
TOWER-RIDGE SAHARA JANE	USA 66979497						
TOWERVIEW-ACRES THOMASINA	USA 120874693						
TOWERVIEW-CS BOLTON 279	USA 53436279						
TOWNVUE LITE MYSTERY-ET	USA 140008193		C				
TR-MAR GALAXY ANGIE	USA 73787528						
TRAC-KER BOLTON JUSTINE	USA 63496133	C					
TRAC-KER DOMAIN JUST YOU-ET	USA 68817925	C					
TRACE-VIEW DURABLE VERONICA	USA 72182299			C			3
TRACE-VIEW LOOKOUT-RED-ET	USA 71273017		C				
TRACE-VIEW SID EASTER	840003127897091						
TRACE-VIEW SUPRISE-RED-ET	USA 71273015		C			C	
TRACKSTAR MORNING MIRACLE	USA 68850753						
TRAEGER BAXTER EMMA	USA 69361387						
TRAILSIDE DANICA 3257-ET	USA 71536791						
TRAILSIDE DIE-HARD MALLY	USA 66369815	C					
TRAILSIDE DOORMAN SEXY	USA 73259488					C	
TRAILSIDE FREDERICK 5495	USA 63259986						
TRAILSIDE JOHNSON 3528	USA 73259447						
TRAILSIDE MAJESTY 3276	USA 71536810						1
TRAILSIDE MISSION 3268	USA 71536802	C					
TRAILSIDE SHOUT 3204	USA 71536738					C	
TRAILSIDE SNOWSTORM 2064	USA 63259883						
TRAILSIDE SUPERSIRE 3499	USA 72707442						
TRAMILDA ACME REBEL-ET	840003132388763						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRAMILDA ALLAN PANSEY-ET	USA 137755152						
TRAMILDA ATWOOD LANA-ET	840003013713727						
TRAMILDA ATWOOD MAY-BE-ET	USA 141517843						
TRAMILDA ATWOOD RAGE-ET	840003124818841						
TRAMILDA ATWOOD RALLY-ET	840003124818854						
TRAMILDA ATWOOD REJOICE	USA 141784445						
TRAMILDA ATWOOD ROSY-ET	840003124818846						
TRAMILDA BRAXTON RE-NEW-ET	USA 141785642						
TRAMILDA BRAXTON RUTHIE-ET	USA 141785660						
TRAMILDA CAM EXTRA-ET	USA 142106123						
TRAMILDA CAMERON LYNETTE-ET	USA 71818805						
TRAMILDA CAMERON LYNN-ET	USA 141784436						
TRAMILDA CHIP ROSE-ET	USA 141727165						
TRAMILDA CORVETTE LATIFA-ET	USA 74292217						
TRAMILDA CORVTT LANA RAE-ET	840003133580808						
TRAMILDA CORVTTE LATISHA-ET	USA 74292218						
TRAMILDA CROWN PAMMY	USA 141473486						
TRAMILDA DAMARIS SOFIA	840003128648847						
TRAMILDA DENVER ALEXA-P	840003134356940						
TRAMILDA DENVER BELLE-ET	840003134356904						
TRAMILDA DENVER GLORY-ET	840003134356929						
TRAMILDA DENVER SHENE	840003134356927						
TRAMILDA DENVER WHITNEY-ET	840003134356932						
TRAMILDA DENVER WHOOPI-ET	840003134356933						
TRAMILDA DENVER WILLOW-ET	840003134356934						
TRAMILDA DOORMAN LEXUS	840003134356907						
TRAMILDA DURHAM LOLITA-ET	USA 138244554						
TRAMILDA EPIC ROSE-ET	USA 142205073						
TRAMILDA EPIC ROXY-ET	USA 142205082						
TRAMILDA GOLD CHIP LYNN	USA 142207066						
TRAMILDA GOLDWYN JEZEBEL-ET	USA 137858444						
TRAMILDA GOLDWYN MARME-ET	USA 142069325						
TRAMILDA GOLDWYN MINT-ET	USA 141722021						
TRAMILDA GOLDWYN ROSABEL-ET	USA 141958437						1
TRAMILDA HIGHWAY LYNN-ET	USA 142106084						
TRAMILDA KAD BEYONCE	840003128648866						
TRAMILDA KINGBOY STAR	840003134356936						
TRAMILDA LONG LILLIAN-ET	840003014023015						
TRAMILDA MACK LACI-ET	840003014023025						
TRAMILDA MCCUTCHEN LYNN	840003128648919						
TRAMILDA MEGASIRE ELLA	840003124818874						
TRAMILDA MEGASIRE LILLY	840003124818865						
TRAMILDA MEGASIRE LIZETTE	840003124818867						
TRAMILDA MEGASIRE MIAMI	840003128648878						
TRAMILDA MEGASIRE ROBIN	840003128648904						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRAMILDA MISSOURI SHANNA-ET	840003134356901					C	
TRAMILDA MISSOURI SHELLY-ET	840003128648852						
TRAMILDA MITCH LYNN	USA 142106132					C	
TRAMILDA MOGUL MARIA	USA 142535950						
TRAMILDA PAT ADDISON-RED-ET	840003134356887						
TRAMILDA PLANET JANE	USA 139814475						
TRAMILDA SPARK GOLDEN	840003134356925						
TRAMILDA SPARK LYNN	840003134356903						
TRAMILDA SUNFISH ADELLE	840003134356888						
TRAMILDA SUPERSIRE ISABELLA	USA 142254189						
TRAMILDA SUPERSIRE MARCY	USA 142254116						
TRAMILDA SUPERSIRE ROSA-ET	USA 142254170						
TRAMILDA UNO LYNN-ET	USA 142106093						
TRAMILDA YIP SHELLY	840003128648876						
TRAMILDA-J ARCHRV RIBBON-ET	USA 73947810						
TRAMILDA-J ATWOOD HOPE-ET	USA 141279091						
TRAMILDA-J BRAXTON ROLL-ET	USA 141515805						
TRAMILDA-J CROWN ELOPE	USA 139814541						
TRAMILDA-J DURHM ROSY-ET	USA 140908550						
TRAMILDA-J ELEXIS ESCALADE	USA 71303424						
TRAMILDA-J SANCHEZ HOLLY-ET	USA 141279082						
TRAMILDA-J SHAMLESS EVENT	USA 141784463						
TRAMILDA-M ESC DD	USA 141517852						
TRAMILDA-N 695 ALCH 5698-ET	USA 71859276						
TRAMILDA-N ABSLT RAE-RED-ET	USA 141699907						1
TRAMILDA-N ALEX FAWN-ET	USA 140176694						
TRAMILDA-N ALEX FAYE-ET	USA 140176706					C	1
TRAMILDA-N AM FLAMIN HOT-ET	840003128780186						
TRAMILDA-N ATWOOD CAMBER-ET	USA 140545821						
TRAMILDA-N ATWOOD CANDY	USA 140545906						
TRAMILDA-N BAXTER EMILY-ET	USA 139232811						
TRAMILDA-N BRADNICK ROSE-ET	USA 142069240						
TRAMILDA-N BUCK SNOW TULIP	USA 138406042						
TRAMILDA-N BUSINESS CHIP	840003014023019			C			
TRAMILDA-N BY-MY SUPERSIRE	USA 142605408						
TRAMILDA-N CAM BELLRINGER	USA 142069361						
TRAMILDA-N CAM ELLY-TW	USA 142205037						
TRAMILDA-N CAM EMILY-TW	USA 142205028						
TRAMILDA-N CAMERON BELLA-ET	USA 141787756						
TRAMILDA-N CHIP ALLY-RED-ET	840003014023013						
TRAMILDA-N CHRIS 3342-ET	USA 72039649						
TRAMILDA-N CHRIS 3345-ET	USA 72039652						
TRAMILDA-N CHRS 3346-RED-ET	USA 72039653						
TRAMILDA-N DEB RAE-RED-ET	USA 73800410						
TRAMILDA-N DEBON LAUGH-ET	840003008226130						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRAMILDA-N DENVER BRITTANY	840003134356893						
TRAMILDA-N DIAMOND EMBRY-ET	840003129102571					C	
TRAMILDA-N DIAMOND EMINA-ET	840003129102573			C			
TRAMILDA-N DIAMOND EMLYN-ET	840003129102579					C	
TRAMILDA-N DISTIN CAROL-ET	840003014023023						
TRAMILDA-N DMARIS GOLDEN-ET	840003128648875						
TRAMILDA-N DOORMAN LIZ	840003014023032					C	
TRAMILDA-N DOORMAN RAE-ET	840003013713728					C	
TRAMILDA-N DOZER BROOK-ET	840003134356900						
TRAMILDA-N DRACO BELLA	840003134356915						1
TRAMILDA-N DRACO RACHEL	840003134356913						1
TRAMILDA-N DRACO RAQUEL	840003134356917						1
TRAMILDA-N DRACO ROSE	840003134356909						1
TRAMILDA-N DRCO BRITTNEY-ET	840003128648855						1
TRAMILDA-N DREAM-RAY-ET	840003123737994						
TRAMILDA-N EARNHARDT BELL-P	USA 142357976						
TRAMILDA-N EHRDT LEXUS-P-ET	USA 142535905						
TRAMILDA-N ESCALADE B MINE	USA 141473495						
TRAMILDA-N ESCALADE ELSA	USA 141722030						
TRAMILDA-N FOGLE CAMBER	USA 141763806					C	
TRAMILDA-N G W ATWOOD 6026	840003003322726						
TRAMILDA-N GOLD CHIP RAE	840003013713724						
TRAMILDA-N HALGN CAMILLE-ET	840003123906856						
TRAMILDA-N HALOGEN COCO-ET	840003123906863						
TRAMILDA-N HALOGEN ELYSIA	840003128648912						
TRAMILDA-N HALOGEN EVA-ET	840003127717473						
TRAMILDA-N HALOGEN LOLA	840003128648923	C					
TRAMILDA-N HALOGEN SUE-ET	840003124818839						
TRAMILDA-N HAWLEY EMBER	USA 141939078						
TRAMILDA-N HAWLEY LACE	USA 71390671						
TRAMILDA-N HEADLINER PIXIE	840003014023033						
TRAMILDA-N HEADLINER ROBIN	840003124818842						
TRAMILDA-N HERO EXPOSE	USA 142069398						
TRAMILDA-N HIGHWAY MOLLY-ET	USA 142114838						
TRAMILDA-N JABIR YAN-ET	840003014023036						
TRAMILDA-N JACEY APPLY	840003124818824						
TRAMILDA-N JACKMAN CREME-ET	USA 74611258	C		C			
TRAMILDA-N JETSET GINNY-ET	840003012171440						
TRAMILDA-N JETSET GIZMO-ET	840003012171443						
TRAMILDA-N JETST GEORGIA-ET	840003012171444						
TRAMILDA-N KINGBOY BLEST-ET	840003128648921						
TRAMILDA-N KINGBOY BLISS-ET	840003128648922						
TRAMILDA-N KINGBOY BRIELLE	840003134356881						
TRAMILDA-N KINGBOY COCO	840003134356895						
TRAMILDA-N KINGBOY LILAC	840003134356908						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRAMILDA-N KINGBOY LYNN-ET	840003128648911						
TRAMILDA-N KINGBOY SAGE-ET	840003128648925						
TRAMILDA-N L SUE RAE-ET	840003012571661						3
TRAMILDA-N L SUN RAE-ET	840003012571660						
TRAMILDA-N LAD RAE-RED-ET	USA 142352243						3
TRAMILDA-N LADD RAE-RED	840003013713741						
TRAMILDA-N LADD REJOICE-ET	USA 142352252						3
TRAMILDA-N LARSN DREAMER-ET	USA 142069165		C				
TRAMILDA-N LARSON DESIRE-ET	USA 142069174						3
TRAMILDA-N LARSON DREAMS-ET	USA 142069192						
TRAMILDA-N MAC ELSIE-ET	USA 139298314						
TRAMILDA-N MAC SHOWBABY-ET	USA 138762010						
TRAMILDA-N MACK CHASSITY	840003124818871						
TRAMILDA-N MACK GOLDEN-ET	840003014023026						
TRAMILDA-N MACK MYSTERY	840003124818880						
TRAMILDA-N MAGNS 4666 CHRIS	840003009969659						
TRAMILDA-N MAGNUS B-WARE-ET	USA 141842453						
TRAMILDA-N MAGNUS RITZ	USA 142205055						
TRAMILDA-N MAYFIELD BETH-ET	USA 142205064						
TRAMILDA-N MAYFIELD BUZZ-ET	USA 142205091			C			
TRAMILDA-N MC CHERRY-ET	USA 142570926						
TRAMILDA-N MCCUT BELLA-ET	840003013713748						
TRAMILDA-N MCCUT ELLEN-ET	840003124818812						
TRAMILDA-N MCCUT VELVET	840003124818823						
TRAMILDA-N MCUT BAILEY-ET	840003013713729						
TRAMILDA-N MCUT BECKI-ET	840003013713740						
TRAMILDA-N MCUT BECKY-ET	840003013713746						
TRAMILDA-N MCUT BESSIE-ET	840003014023004						
TRAMILDA-N MCUT BRENDA-ET	840003013713739						
TRAMILDA-N MCUT BRITTANY-ET	840003013713747						
TRAMILDA-N MCUT LINDA-ET	840003014022992						
TRAMILDA-N MCUT LISA-ET	840003013713750						
TRAMILDA-N MCUT RACHEL-ET	840003013713722						
TRAMILDA-N MCUT RAQUEL-ET	840003013713718						
TRAMILDA-N MCUT RHONDA-ET	840003013713721						
TRAMILDA-N MCUT ROLANDA-ET	840003013713723						
TRAMILDA-N MCUT ROSALINE-ET	840003013713719						
TRAMILDA-N MCUT ROXANNE-ET	840003013713720						
TRAMILDA-N MEGASIRE BAILEY	840003134356916						
TRAMILDA-N MEGASIRE CAMILLE	840003134356891						
TRAMILDA-N MEGASIRE LIZ-ET	840003124818860						
TRAMILDA-N MEGASIRE LYNN-ET	840003124818859						
TRAMILDA-N MEGASIRE MIST	840003124818866						
TRAMILDA-N MERIDIAN BELLA	USA 142115129			C			
TRAMILDA-N MGASIRE LACEY-ET	840003124818861						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRAMILDA-N MGASIRE LIBBY-ET	840003124818862						
TRAMILDA-N MGS 4675 NADIYAH	840003009969664						1
TRAMILDA-N MICHAEL ECHO-ET	USA 140662719						
TRAMILDA-N MICHAEL FERN-ET	USA 140301607						
TRAMILDA-N MICHEL EFFECT-ET	USA 140662764						1
TRAMILDA-N MILLION CAMRY-ET	USA 140301586					C	
TRAMILDA-N MNTROS BARBIE-ET	840003128648886						
TRAMILDA-N MNTROS GOLDEN-ET	840003134356876						
TRAMILDA-N MNTRSS SHELLY-ET	840003124818856					C	
TRAMILDA-N MOGUL EMILY-ET	USA 142106105						
TRAMILDA-N MONTROS 15662-ET	840003126918686	C					
TRAMILDA-N MONTROS 16109-ET	840003129377690						
TRAMILDA-N MONTROSS BETH-ET	840003124818879						
TRAMILDA-N MONTROSS SHO-ET	840003124818840		C			C	
TRAMILDA-N MOSES DREAM-RED	840003124818876		C				
TRAMILDA-N PLANET ELLY-ET	USA 140662728						
TRAMILDA-N PLANET ELSIE-ET	USA 140545755						1
TRAMILDA-N PRDSTN LARLIE-ET	840003013010718						
TRAMILDA-N PRDSTN LARLNA-ET	840003013010722	C					
TRAMILDA-N PRDSTN LARLNE-ET	840003013010731	C					
TRAMILDA-N PREDEST HAILEY	840003013713742						
TRAMILDA-N PREDEST LIBBY-ET	840003013713717	C					
TRAMILDA-N PREDEST LUCY-ET	USA 142570805	C					
TRAMILDA-N PREDESTINE LIVA	840003013713751	C					
TRAMILDA-N RACER 772-ET	USA 74116796						
TRAMILDA-N RACER SHELBY-ET	840003124818864						
TRAMILDA-N RACER SILK-ET	840003124818875						
TRAMILDA-N RACER SILVER-ET	840003124818863						
TRAMILDA-N REDBURST CALIBER	USA 142114856		C				1
TRAMILDA-N REDHOT-RED-ET	840003128780190						
TRAMILDA-N RUBICON BABE	840003134356889						
TRAMILDA-N SAN FLOWER-ET	USA 140545867						
TRAMILDA-N SANCHEZ FANCY-ET	USA 140545858						
TRAMILDA-N SANCHEZ FERN-ET	USA 140545849					C	
TRAMILDA-N SHAMRK LILAC	USA 141785633						
TRAMILDA-N SHAN BAGHDAD-ET	840003013463653						
TRAMILDA-N SHAN BANTAM-ET	840003013463630						
TRAMILDA-N SHAN BARGAIN-ET	840003013463690						
TRAMILDA-N SHAN SECRET	840003124818821						
TRAMILDA-N SHAW BEULAH-ET	840003124818818						
TRAMILDA-N SHAW BLANKET-ET	840003124818819					C	
TRAMILDA-N SHAW BLOOM-ET	840003124818820					C	
TRAMILDA-N SHAW CAILA-ET	840003013010780					C	
TRAMILDA-N SHAW CAILIN-ET	840003013844398						
TRAMILDA-N SHAW CAILINA-ET	840003013010791						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRAMILDA-N SHAW CATALINA-ET	840003013844433					C	
TRAMILDA-N SHAW CATLIN-ET	840003013010739					C	
TRAMILDA-N SIEMRS DREAMY-ET	840003123738139						3
TRAMILDA-N SPARK GALLERY-ET	840003134356938						
TRAMILDA-N SPK GEORGETTE-ET	840003134356941						
TRAMILDA-N STERLING GOLDIE	840003014023034						
TRAMILDA-N SUNFISH DREAMS	840003134356886						1
TRAMILDA-N SUPERSIRE BEE-ET	USA 142348402						
TRAMILDA-N SUPERSIRE CANDY	840003013713738						
TRAMILDA-N SUPRSIRE BUZZ-ET	USA 142254143						
TRAMILDA-N SUSHI RAE-RED-ET	840003012571663						3
TRAMILDA-N YODER ECHO-ET	840003128648868						
TRAMILDA-N YODER ELECTRA-ET	840003128648891						
TRAMILDA-N YODER EMILY-ET	840003128648901						
TRAMILDA-N YODER ERIKA-ET	840003128648867						
TRAMILDA-T ESCALADE STYLE	USA 141722049						
TRAMILDA-T NOMINEE SPREE	840003128648920						
TRAN-ACRES DOMAIN MICKI	USA 72589969						
TRAN-ACRES MCCUTCH MARY-ET	840003131068511						
TRAN-ACRES SAM MOCHA	USA 137330522						
TRANQUILLITY AC DREAR CAMEO-ET	CAN 107533393						
TRANQUILLITY AC DREAR CANDY-ET	CAN 107533395						
TRANQUILLITY AC DREAR CREAM-ET	CAN 107746928						
TRANQUILLITY AC DREARY CALI-ET	CAN 107746929						
TRANQUILLITY AC DREARY GOLD-ET	CAN 107533385						
TRANQUILLITY AC DREARY MINE-ET	CAN 107533387						
TRANQUILLITY AC DREARY RUSH-ET	CAN 107007860						
TRANQUILLITY AC DREARY SHOT-ET	CAN 107007859						
TRANQUILLITY AC DREARY TRAC-ET	CAN 107007861						
TRANQUILLITY AC DREARYS CHO-ET	CAN 107203346						
TRANQUILLITY AC DREARYS ULT-ET	CAN 107007865						
TRANQUILLITY AC DREARYS VOI-ET	CAN 107007866						
TRANQUILLITY AC DREARYS WIL-ET	CAN 107007867						
TRANQUILLITY AC DREARYS XEN-ET	CAN 107203343						
TRANQUILLITY AC DREARYS YES-ET	CAN 107203344						
TRANQUILLITY AC DREARYS ZOE-ET	CAN 107203345						
TRANSCENDENT KILOBYTE MILAN	USA 71159300						
TRANSCENDENT MOCHAS LATTE	USA 71159263						
TRANSCENDENT SUPER CORYNN	USA 71159295						
TREALAYNE 19 MCC 5741	USA 71859319	C					
TREALAYNE DORCY LOUISA MAY	USA 141407409	C					
TREALAYNE FRED LUZIANNE-ET	USA 142265534	C					
TREBDAL SUNSHINE BLITZ-TW	USA 138000312						
TREE-HAYVEN DAMIN PIEPER-ET	USA 70317707		C				
TREE-HAYVEN G CHP ADMIRE-ET	USA 70317737						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TREE-HAYVEN GOLD PATI GIRL	USA 139475294						
TREE-HAYVEN RAINY SURPRISE	USA 72956870						
TREE-HAYVEN RANY DARK HORSE	USA 72956868						3
TREFLE ANGOLA GOLDWING-ET	CAN 106663115						
TREFLE WYTHNEY JAMES-ET	CAN 102976314						
TRENT VALLEY BETH	CAN 9931636						
TRENT-WAY AX CURBY-RED-ET	840003125816130						
TRENT-WAY CAMBREYA-RED	USA 142588079						
TRENT-WAY CHARMANI-RED-ET	USA 142887860						
TRENT-WAY CHESMANI	840003125816134						
TRENT-WAY GC TEQUILA-ET	840003125816136						
TRENT-WAY GC TOKYO-ET	840003125816137	C					
TRENT-WAY GC TONI-ET	840003125816138						
TRENT-WAY GC TRANQUIL-ET	840003125816135	C					
TRENT-WAY GOLD TOPSPOT-ET	USA 142427442	C					
TRENT-WAY GOLD TRIPOLI-ET	840003125816126	C					
TRENT-WAY O COSMO-RED	840003125816145						
TRENT-WAY TAMEKA-ET	840003125816161	C					
TRENT-WAY TAMIKO TRINITY-ET	840003125816128						
TRENT-WAY TAMIKOS TAMMY-ET	840003125816156						
TRENT-WAY TAMIKOS TERRA-ET	840003125816146	C					
TRENT-WAY TAMIKOS TRUDY-ET	840003125816119	C					
TRENT-WAY TAPADY	840003125816149						
TRENT-WAY TINY TINA-ET	840003125816123						
TRENT-WAY TRIPCHIP	840003125816133						
TRENT-WAY-KF LULA	840003125816122					C	
TRENT-WAY-KF TORNADO-ET	840003125816118						
TRENT-WAY-KF TWINGLE	840003125816120					C	
TRENT-WAY-KF TWISTER-ET	840003125816117						
TRENT-WAY-PB GOLDCHIP DYNA	USA 142588109						
TRENT-WAY-TK MARY	840003125816131						
TRES-REYNAS DELTA 148-ET	840003128860408						
TRES-REYNAS DELTA 152-ET	840003128860412						
TRES-REYNAS MONTY LIZZY	840003128860448						
TRES-REYNAS SILVER 136-ET	840003128860396						
TRES-REYNAS SS LAGUNA-ET	USA 72285807						
TRES-REYNAS SS LIZZY-ET	USA 72285804						
TRES-REYNAS SS SOPHIE-ET	USA 72285806						
TRES-REYNAS TNG HEATHER 160	USA 73035527		C				
TRI-CAL BYRE 3587-ET	USA 71206996						
TRI-CAL DOMAIN BETA 3205-ET	USA 68960012						
TRI-CAL DOMAIN PAGEL-ET	USA 69774725						
TRI-CAL EBONY-ETS	USA 71873960						
TRI-CAL ERIE BEEZE-ET	USA 70725439					C	
TRI-CAL IVORY-ETS	USA 71873961						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRI-CAL KRAMER BASHA-ET	USA 70725431						
TRI-CAL KRAMER BETH 3535-ET	USA 71206944						
TRI-CAL KRAMR BAMBI 3538-ET	USA 71206947						
TRI-CAL KRAMR BRINA 3529-ET	USA 69937356			C			
TRI-CAL KRAMR BRISA 3528-ET	USA 69937355						
TRI-CAL KRAMR BRITT 3534-ET	USA 71206943			C			
TRI-CAL LTHM BRETON 3629-ET	USA 71207038						
TRI-CAL LTHM BREZE 3628-ET	USA 71207037						
TRI-CAL ROBUST LANA 3302-ET	USA 69937129						
TRI-DEE-KR ABSOLUTE PANSY-ET	840003013853304						
TRI-DEE-KR ABSOLUTE POLLY-ET	840003013853300						
TRI-KOEBEL A PAPAZZI-RED	840003004254917						
TRI-KOEBEL ACME ELLIOT-ET	840003009040822						1
TRI-KOEBEL ACME EVERYDAY-ET	840003009040831						1
TRI-KOEBEL ACME EVETTE-ET	840003009040820						
TRI-KOEBEL ASPEN ELKE	840003004254887						
TRI-KOEBEL ASTRO FRECKLES	USA 60559185						
TRI-KOEBEL ATWOOD ELKA-ET	840003123653053						
TRI-KOEBEL ATWOOD ERMA-ET	840003123653052						
TRI-KOEBEL DAMION MOOVILLE	USA 62934378						
TRI-KOEBEL DSTRY FLIPPER-ET	840003123653009						1
TRI-KOEBEL EASTERBUNNY-ET	840003009040783						
TRI-KOEBEL EXPEDITION-ET	840003004254892						
TRI-KOEBEL FACEBOOK ROXANNE	840003009040807						
TRI-KOEBEL FEAR THIS-ET	USA 60559197						
TRI-KOEBEL G DIGGER NATASHA	840003009040763						3
TRI-KOEBEL GOLDSUN 870-ET	USA 72633943						
TRI-KOEBEL JEALOUSY	840003004254918					C	
TRI-KOEBEL JMS ELOQUENT-ET	USA 60559177						
TRI-KOEBEL LADYBUG-RED	840003009040802						1
TRI-KOEBEL LAURIN FERGIE	840003004254855						
TRI-KOEBEL ROY ELABORATE-ET	840003004254831						
TRI-KOEBEL SS ESPIONAGE-ET	USA 62934352		C				
TRI-KOEBEL STRM FREEBIRD-ET	840003004254832						
TRI-KOEBEL TLT ESMERELDA-ET	USA 62934356						
TRI-LEVEL MACHO GARISN 1181	USA 63050461						
TRI-SWAN BRADNICK DORIS	USA 70682178						
TRI-SWAN COLBY MARBI	USA 64701985						
TRI-SWAN CROWN TARCIE	USA 70682169						
TRI-SWAN DETONATOR RORI-RED	USA 70682167						
TRI-SWAN DURABLE LENORE	USA 70682177	C	C				3
TRI-SWAN ELEGANT MARTEE-ET	USA 62545743						
TRI-SWAN PATRONE MINA-ET	USA 72316245						
TRI-SWAN PETRONE MILADY-ET	USA 70682185						
TRI-SWAN PRENTICE MAYDA	USA 68771060						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRI-SWAN REDBURST 1124-RED	USA 74577067						1
TRI-TOWN CHAMPION TRESA	USA 134956992						
TRI-TOWN SHOTTLE MADISON-ET	USA 138012487					C	
TRI-VAL CAMERON PRAISE	USA 143580551						
TRI-VAL OMAN ICY	USA 136938437			C			
TRIANGLE-ACRES DIS ROBIN-ET	USA 72614501						
TRIDENT EARNHARDT P DIERDRE	USA 71830310						
TRIDENT EARNHARDT P FANTA P	USA 71830302						
TRIDENT EARNHARDT P MILLIE	USA 71830277						3
TRIDENT EMERALD CLARITY	USA 73476175						
TRIDENT EMERALD FYRE	USA 71830288						
TRIDENT EPIC TAKARA	USA 69891378						
TRIDENT JACKMAN TECA	USA 73476179						
TRIDENT JACKMAN TESIA	USA 73476197			C			
TRIDENT LEO CLEOPATRA	USA 71830287					C	
TRIDENT MOGUL TWINKLE	USA 71830193					C	
TRIDENT PHONIC CADIS	USA 73476170						
TRIDENT RELIEF P CAED P	USA 71830304		C				
TRIDENT SHIMONE BAM BAM	USA 71830252						
TRIDENT STERLING CERES	USA 71830248						
TRIDENT STRLN MABLI	USA 73476077						
TRIDENT-BW MAYFIELD RAINA	USA 71830210						
TRIDENT-I HUNGER CATIA P-ET	CAN 108842459						1
TRIDENT-I HUNGER CLOPAS-ET	CAN 108798900						
TRIDENT-I OLYMPIAN CARA-ET	CAN 109010836						
TRIDENT-I OVERTIME CATNIS-ET	CAN 108881790						
TRIDENT-I OVERTIME CLEARLYP-ET	CAN 108881844						
TRIDENT-I-HUNGER CICI-ET	CAN 108798902						
TRIFECTA CS ROYALE-ET	USA 142889705						
TRIFECTA CS TANA-ET	USA 142820496		C				
TRIFECTA CS TEMPLE-ET	USA 142820517		C				
TRIFECTA D DANDI-ET	840003133728979						
TRIFECTA D PRIMA-ET	USA 142642850						3
TRIFECTA ERASER P 3771	840003128056106			C			
TRIFECTA GORDON 3613	USA 73288077					C	
TRIFECTA LAVA SOCRATES-ET	USA 139950478						
TRIFECTA M RHIANNA	840003131023112						
TRIFECTA OBS LADY SHISHI-ET	USA 141160685						
TRIFECTA OBS SENSATION-ET	USA 141160694						
TRIFECTA OBSERV SHARECE-ET	USA 141160715						
TRIFECTA OBSERV SHAVON-ET	USA 141160706						
TRIFECTA ROSS SHINER	USA 69972236			C		C	
TRIFECTA S BRING IT ON	USA 73941544						
TRIFECTA S DAHLIA-ET	USA 142292028					C	
TRIFECTA S DAYLA-ET	USA 142292037					C	

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIFECTA S DIVINE-ET	USA 142292064			C		C	
TRIFECTA S ELSIE-ET	USA 141964430						
TRIFECTA S ENVY-ET	USA 141964421					C	
TRIFECTA S ERIKA-ET	USA 141964449					C	
TRIFECTA S EVANKA-ET	USA 141964467					C	
TRIFECTA S LALA-ET	USA 142438440					C	
TRIFECTA S LARA-ET	USA 142438459						
TRIFECTA S LILITH-ET	USA 142445266						
TRIFECTA S LOCA	840003128138664					C	
TRIFECTA S MACKENZIE	USA 142599460						
TRIFECTA S MELINDA-ET	USA 142201592						
TRIFECTA S MERANDA-ET	USA 142201604						
TRIFECTA S MEREDITH-ET	USA 142201583					C	
TRIFECTA S TANYA-ET	USA 73941665						
TRIFECTA S TRINA-ET	USA 142856831		C				
TRIFECTA S TRINITY-ET	USA 73941625		C				
TRIFECTA S UMA-ET	USA 142094714					C	
TRIFECTA SHANNON-ET	USA 141815231						
TRIFECTA T BEDAZZLE-ET	USA 143592224						
TRIFECTA T BEYONCE-ET	840003133729127						
TRIFECTA T BONITA-ET	USA 143592242						
TRIFECTA T BRODINA-ET	840003133729140						
TRIFECTA T DAFFODIL-ET	USA 143634287	C					
TRIFECTA T DESIREE-ET	840003133728987						
TRIFECTA T DONNA-ETS	USA 143634278	C					
TRIFECTA T SESAME-ET	840003131023142						
TRIFECTA T SPECTACULAR-ET	840003131023133						
TRIFECTA U DELOREAN-ET	840003128139003						
TRIFECTA U JLOUISE-ET	USA 73941709						
TRIFECTA U REGINA	USA 73941876						
TRIFECTA U SOPHIE-ET	USA 143634296						
TRIFECTA V KRYSTAL-ET	USA 73942009						
TRIFECTA VOTTO 3702	840003128056037						
TRIFECTA Z AIRLIA-ET	USA 142070789						
TRIFECTA Z ECHO-ET	USA 142094705						
TRIFECTA Z JEALOUS	USA 142995172						
TRIFECTA Z MACKENZIE-ET	USA 142855513						
TRIFECTA Z PRESLEY-ET	USA 142646274						3
TRIFECTA Z TAMRA-ET	USA 142782268		C				
TRIFECTA Z ULTIMA	USA 142094684						
TRIM-BEL SHOTTLE WMIRACL-ET	USA 66319011					C	
TRINKLE GAMBLER 8285	840003126626059						
TRIONE PRINCE TRAVA-ET	ITA 58990139526			C			
TRIPLE-D-FMS MALONE R13-RED	USA 172372727						
TRIPLE-HH GOLD CASSIDY-ET	USA 71273372						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLE-HH GOLDSUN CARLA-ET	840003130624861						
TRIPLE-HH REDLIN BARBIE-RED	USA 139508783						1
TRIPLE-HH WINDBROOK BREEZE	USA 71273339						
TRIPLE-HIL ARMANI INEZ-ET	USA 74470506						
TRIPLE-HIL ATWOOD SIERRA-ET	USA 74470498						
TRIPLE-HIL ATWOOD SYBIL-ET	USA 74470492						
TRIPLE-HIL DOMINANT KREDIT	USA 74470499						
TRIPLE-HIL WOOD SIDONIA-ET	USA 74470496						
TRIPLE-OAK BOMBARO BARBRA	USA 73813956						
TRIPLE-OAK BOMBERO BUNNY	USA 73813952						
TRIPLE-OAK JACEY JAMIE	USA 72377695						
TRIPLE-OAK MCCUTCHEN MICKY	USA 72377662						
TRIPLE-OAK MCCUTCHEN MOLLY	USA 72377645						
TRIPLE-OAK MERIDIAN MARY-ET	USA 72377631						
TRIPLE-OAK PULSAR PENELOPY	USA 73813992						
TRIPLE-OAK PULSAR PENNY-ET	USA 73813979						
TRIPLE-OAK SUPERSIRE SANDY	USA 72377666						
TRIPLE-PEAKS AFTRSHOCK MAMA	USA 69281532					C	
TRIPLE-PEAKS ARMANI TALA-ET	USA 72322053						1
TRIPLE-PEAKS DUDE LEMON	USA 72322029						
TRIPLE-PRIDE SILVER SAPHIRE	USA 143333047						
TRIPLE-ROSE ADMIRE AMY-ET	USA 142591659						
TRIPLE-SILO RUDOLPH GENNIE	USA 127224350						
TRIPLE-SILO WADE PAMELLA	USA 129375258	C					
TRIPLECROWN 1STCLASS 11-ET	840003128165144						
TRIPLECROWN 1STCLASS 16-ET	840003128165139						
TRIPLECROWN 1STCLASS 23-ET	840003128165132						
TRIPLECROWN 1STCLASS 24-ET	840003128165131						
TRIPLECROWN 1STCLASS 994-ET	USA 74186133						
TRIPLECROWN 1STCLASS 998-ET	USA 74186137						
TRIPLECROWN ALMIRAH-ET	USA 73517014						
TRIPLECROWN ALRIGHT 740-ET	USA 73516998						
TRIPLECROWN ALRIGHT 742-ET	USA 73517000						
TRIPLECROWN ALRIGHT 744-ET	USA 73517002						
TRIPLECROWN ALRIGHT 748-ET	USA 73517006						
TRIPLECROWN ALRIGHT 750-ET	USA 73517008						
TRIPLECROWN ALRIGHT 794-ET	USA 73517052						
TRIPLECROWN ALRIGHT 804-ET	USA 73963051						
TRIPLECROWN ALRIGHT 811-ET	USA 73963058						
TRIPLECROWN ALRIGHT 812-ET	USA 73963059						
TRIPLECROWN ALRIGHT 822-ET	USA 73963069						
TRIPLECROWN ARMANI 259-RED	840003133119963						2
TRIPLECROWN ARMITAGE MAE-ET	USA 70673320						
TRIPLECROWN BALISTO 896-ET	USA 73963143					C	
TRIPLECROWN BALISTO 897-ET	USA 73963144						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN BALISTO 902-ET	USA 74186041						
TRIPLECROWN BEAU MISTIFY	USA 71522335						
TRIPLECROWN BOASTFUL 135-ET	840003128860395						
TRIPLECROWN BOMBERO 830-ET	USA 73963077						
TRIPLECROWN BOMBERO 860-ET	USA 73963107						
TRIPLECROWN BOMBERO 983	USA 74186122						
TRIPLECROWN BOYBOY LANI-ET	USA 71522359						
TRIPLECROWN BRADNICK RAP-ET	USA 72285736						1
TRIPLECROWN BRADNICK RAZ-TW	USA 72285738						
TRIPLECROWN BRADNICK RIM-ET	USA 72285735						
TRIPLECROWN BRADNICK RIP-TW	USA 72285739						1
TRIPLECROWN CAMARO 922-ET	USA 74186061						
TRIPLECROWN CAMARO 926-ET	USA 74186065						
TRIPLECROWN CAMARO 927-ET	USA 74186066						
TRIPLECROWN CAMARO 930-ET	USA 74186069					C	
TRIPLECROWN CAMARO 931-ET	USA 74186070						
TRIPLECROWN CAMARO 932-ET	USA 74186071						
TRIPLECROWN CAMARO 975-ET	USA 74186114					C	
TRIPLECROWN CAMARO 982-ET	USA 74186121						
TRIPLECROWN CASHCOIN 673-ET	USA 73516931						1
TRIPLECROWN CHELIOS 844	USA 73963091						
TRIPLECROWN CHEVY 715-ET	USA 73516973						
TRIPLECROWN CHEVY 718-ET	USA 73516976						
TRIPLECROWN CHEVY 722-ET	USA 73516980						
TRIPLECROWN CHEVY 726-ET	USA 73516984						
TRIPLECROWN CHEVY 752-ET	USA 73517010						
TRIPLECROWN CHEVY 758-ET	USA 73517016						
TRIPLECROWN COLT 457-RED-ET	USA 72285715						
TRIPLECROWN COLT DILLEY-ET	USA 72285784						
TRIPLECROWN COLT45 691-ET	USA 73516949						
TRIPLECROWN COLT45 693-ET	USA 73516951						
TRIPLECROWN COMANCHE 256-ET	840003133119960						
TRIPLECROWN COMANCHE 261-ET	840003133119965						
TRIPLECROWN COMANCHE 263-ET	840003133119967						
TRIPLECROWN COMANCHE 264-ET	840003133119968						
TRIPLECROWN COMANCHE 272-ET	840003133119976						
TRIPLECROWN DAMARIS 167-ET	840003128860427						
TRIPLECROWN DAMARIS 169-ET	840003128860429						
TRIPLECROWN DAMARIS 173-ET	840003128860433					C	
TRIPLECROWN DAMARIS 211-ET	840003133119915						
TRIPLECROWN DEDUCTIV 727-ET	USA 73516985						
TRIPLECROWN DEDUCTIV 734-ET	USA 73516992						
TRIPLECROWN DEFENDER 766	USA 73517024						
TRIPLECROWN DEFENDER 778-ET	USA 73517036						
TRIPLECROWN DEFENDER 878	USA 73963125						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN DELTA 113-ET	840003128860373						
TRIPLECROWN DELTA 114-ET	840003128860374						
TRIPLECROWN DELTA 115-ET	840003128860375						
TRIPLECROWN DELTA 18-ET	840003128165137						
TRIPLECROWN DELTA 191-ET	840003128860451						
TRIPLECROWN DELTA 201-ET	840003133119905						
TRIPLECROWN DELTA 236-ET	840003133119940						
TRIPLECROWN DELTA 25-ET	840003128165130						
TRIPLECROWN DELTA 26-ET	840003128165129						
TRIPLECROWN DELTA 33-ET	840003128165122						
TRIPLECROWN DELTA 54-ET	840003128860314						
TRIPLECROWN DELTA 56-ET	840003128860316						
TRIPLECROWN DELTA 62-ET	840003128860322						
TRIPLECROWN DELTA 64-ET	840003128860324						
TRIPLECROWN DELTA 67-ET	840003128860327						
TRIPLECROWN DELTA 68-ET	840003128860328						
TRIPLECROWN DELTA 8-ET	840003128165147						
TRIPLECROWN DENVER 234-ET	840003133119938						
TRIPLECROWN DENVER 235-ET	840003133119939						
TRIPLECROWN DENVER 239-ET	840003133119943						
TRIPLECROWN DENVER 240-ET	840003133119944						
TRIPLECROWN DENVER 241-ET	840003133119945						
TRIPLECROWN DENVER 242-ET	840003133119946						
TRIPLECROWN DENVER 246-ET	840003133119950						
TRIPLECROWN DENVER 248-ET	840003133119952						
TRIPLECROWN DENVER 252-ET	840003133119956						
TRIPLECROWN DESIRED 87-ET	840003128860347						
TRIPLECROWN DESTROY RAZZ-ET	USA 73516936						1
TRIPLECROWN DISTINCT 705-ET	USA 73516963						
TRIPLECROWN DISTINCT 706-ET	USA 73516964						
TRIPLECROWN DISTINCT 707-ET	USA 73516965						
TRIPLECROWN DISTINCT 710-ET	USA 73516968						
TRIPLECROWN DOORMAN CAS-ET	USA 72997678					C	
TRIPLECROWN DRACO 153-ET	840003128860413					C	1
TRIPLECROWN ECOYNE MIST-ET	USA 71846000					C	
TRIPLECROWN EFFECT 537-ET	USA 72285795						
TRIPLECROWN EFFECT MONA-ET	USA 72285770					C	
TRIPLECROWN EPIC MIAMI-ET	USA 71522378						
TRIPLECROWN EPIC MINNOW-ET	USA 71845971						
TRIPLECROWN EPIC MONEY-ET	USA 71522383						
TRIPLECROWN ERASER 22-ET	840003128165133						
TRIPLECROWN EVENT 977-ET	USA 74186116						
TRIPLECROWN FEVER 894	USA 73963141						
TRIPLECROWN FEVER RAVE-ET	USA 70673317						1
TRIPLECROWN FEVER RITZY-ET	USA 70673319						1

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN FLAME 91	840003128860351						
TRIPLECROWN GALAXY 483	USA 72285741						
TRIPLECROWN HALOGEN 799-ET	USA 73517057						
TRIPLECROWN HALOGEN 819-ET	USA 73963066						
TRIPLECROWN HALOGEN 856-ET	USA 73963103						
TRIPLECROWN HALOGEN 858-ET	USA 73963105						
TRIPLECROWN HALOGEN 884-ET	USA 73963131						
TRIPLECROWN HERO DARLA-ET	USA 72285731						
TRIPLECROWN HIGHWAY 409-ET	USA 71845980						
TRIPLECROWN HIGHWAY 413-ET	USA 71845984						
TRIPLECROWN HIGHWAY 415-ET	USA 71845986						
TRIPLECROWN HOMERUN 80-ET	840003128860340						
TRIPLECROWN HOMERUN 81-ET	840003128860341						
TRIPLECROWN INSIDER 176-ET	840003128860436						
TRIPLECROWN JACEY 556-ET	USA 72997675						
TRIPLECROWN JACEY 561-ET	USA 72997680						
TRIPLECROWN JACEY 564-ET	USA 72997683						
TRIPLECROWN JACEY DOLL-ET	USA 73517019						
TRIPLECROWN JACEY DOLLY-ET	USA 73517021						
TRIPLECROWN JOSUPER 177	840003128860437						
TRIPLECROWN JW MASEY 132-ET	840003128860392						
TRIPLECROWN JW MISOU 151-ET	840003128860411					C	
TRIPLECROWN JW OFEST 142-ET	840003128860402						
TRIPLECROWN JW OFEST 143-ET	840003128860403						
TRIPLECROWN JW SILVER 92-ET	840003128860352						
TRIPLECROWN JW SPRNG 202-ET	840003133119906						
TRIPLECROWN JW SPRNG 221-ET	840003133119925						
TRIPLECROWN JW TESLA 185-ET	840003128860445						
TRIPLECROWN JW TESLA 186-ET	840003128860446		C				
TRIPLECROWN KINGBOY 19-ET	840003128165136						
TRIPLECROWN KINGBOY 20-ET	840003128165135						
TRIPLECROWN KINGBOY 21-ET	840003128165134						
TRIPLECROWN KINGBOY 6-ET	840003128165149						
TRIPLECROWN LADDMAN 937-ET	USA 74186076						
TRIPLECROWN LADDMANP 986-ET	USA 74186125						
TRIPLECROWN LOTTOMAX 105	840003128860365						
TRIPLECROWN LOTTOMAX 32-ET	840003128165123						
TRIPLECROWN LOTTOMAX 34-ET	840003128165121						
TRIPLECROWN LOTTOMAX 41-ET	840003128165114						
TRIPLECROWN LOTTOMAX 46-ET	840003128165109						
TRIPLECROWN LOTTOMAX 50-ET	840003128860310						
TRIPLECROWN M EVENT 972-ET	USA 74186111						
TRIPLECROWN MACK 651-ET	USA 73516909						
TRIPLECROWN MACK 652-ET	USA 73516910						
TRIPLECROWN MACK 660-ET	USA 73516918						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN MACK 700-ET	USA 73516958						
TRIPLECROWN MACK 701-ET	USA 73516959						
TRIPLECROWN MACK DREARY-ET	USA 73516938						
TRIPLECROWN MAGICDAY 809-ET	USA 73963056						
TRIPLECROWN MEGASIRE 36-ET	840003128165119						
TRIPLECROWN MISSOU 18718-ET	840003128680821						
TRIPLECROWN MOGUL LARS-ET	USA 71522357						
TRIPLECROWN MOGUL MISTY-ET	USA 71846007					C	
TRIPLECROWN MONTEREY 157	840003128860417						
TRIPLECROWN MONTROS 9335-ET	840003125944857						
TRIPLECROWN MONTROSS 15-ET	840003128165140						
TRIPLECROWN MONTROSS 2-ET	840003128165153						
TRIPLECROWN MONTROSS 27-ET	840003128165128						
TRIPLECROWN MONTROSS 28-ET	840003128165127						
TRIPLECROWN MONTROSS 30-ET	840003128165125						
TRIPLECROWN MONTROSS 31-ET	840003128165124						
TRIPLECROWN MONTROSS 35-ET	840003128165120						
TRIPLECROWN MONTROSS 39-ET	840003128165116						
TRIPLECROWN MUSCADET 220-ET	840003133119924						
TRIPLECROWN NOMINEE 768-ET	USA 73517026						
TRIPLECROWN NOMINEE 772-ET	USA 73517030						
TRIPLECROWN NOMINEE 783-ET	USA 73517041						
TRIPLECROWN OAK CHARM-ET	USA 72997713						
TRIPLECROWN OAK CHILL-ET	USA 72997716						
TRIPLECROWN OCTFES 21731-ET	840003131635006						
TRIPLECROWN OCTFEST 126-ET	840003128860386					C	
TRIPLECROWN OCTFEST 127-ET	840003128860387						
TRIPLECROWN OCTFEST 128-ET	840003128860388						
TRIPLECROWN OCTFEST 130-ET	840003128860390						
TRIPLECROWN OCTFEST 131-ET	840003128860391						
TRIPLECROWN OCTFEST 134-ET	840003128860394						
TRIPLECROWN OCTFEST 138-ET	840003128860398						
TRIPLECROWN OCTFEST 139-ET	840003128860399						
TRIPLECROWN OCTFEST 140-ET	840003128860400						
TRIPLECROWN OCTFEST 146-ET	840003128860406						
TRIPLECROWN OCTFEST 147-ET	840003128860407						
TRIPLECROWN OCTFEST 160-ET	840003128860420						
TRIPLECROWN OCTFEST 163-ET	840003128860423						
TRIPLECROWN OLYMPIAN 810-ET	USA 73963057						
TRIPLECROWN PBALL 278-ET	840003133119982						
TRIPLECROWN POWERBALL 277	840003133119981					C	
TRIPLECROWN POWERBALL 45-ET	840003128165110						
TRIPLECROWN POWERBALL 47-ET	840003128165108						
TRIPLECROWN POWERBALL 48-ET	840003128165107						
TRIPLECROWN POWERBALL 51-ET	840003128860311						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN POWERBALL 52-ET	840003128860312						
TRIPLECROWN POWERBALL 53-ET	840003128860313						
TRIPLECROWN POWERBALL 55-ET	840003128860315						
TRIPLECROWN POWERBALL 60-ET	840003128860320						
TRIPLECROWN POWERBALL 63-ET	840003128860323						
TRIPLECROWN POWERBALL 66-ET	840003128860326						
TRIPLECROWN POWERBALL 69-ET	840003128860329						
TRIPLECROWN PREDEST 644-ET	USA 72997763						
TRIPLECROWN PREDEST 646-ET	USA 72997765						
TRIPLECROWN PURE 49-ET	840003128165106						
TRIPLECROWN PURE 79-ET	840003128860339						
TRIPLECROWN PURE 82-ET	840003128860342						
TRIPLECROWN PURE 83-ET	840003128860343						
TRIPLECROWN PURE 85-ET	840003128860345						
TRIPLECROWN PURE 98	840003128860358						
TRIPLECROWN PURE 99-ET	840003128860359						
TRIPLECROWN PWERBALL 293-ET	840003133119997						
TRIPLECROWN RAVISH-RED-ET	USA 74186044						
TRIPLECROWN REDBURST 38-ET	840003128165117						2
TRIPLECROWN RHONDA-RED-ET	USA 74186046						
TRIPLECROWN RIPPLE 465	USA 72285723						
TRIPLECROWN RIPPLE-RED-ET	USA 74186045						
TRIPLECROWN RUBICON 158	840003128860418						
TRIPLECROWN RUBICON 175-ET	840003128860435						
TRIPLECROWN RUBICON 178-ET	840003128860438						
TRIPLECROWN RUBICON 180-ET	840003128860440						
TRIPLECROWN RUBICON 181-ET	840003128860441						
TRIPLECROWN RUBICON 182-ET	840003128860442						
TRIPLECROWN RUBICON 189-ET	840003128860449						
TRIPLECROWN RUBICON 190-ET	840003128860450						
TRIPLECROWN RUBICON 984-ET	USA 74186123						
TRIPLECROWN RUBICON 989-ET	USA 74186128						
TRIPLECROWN RUBICON 990-ET	USA 74186129						
TRIPLECROWN SE 535-RED-ET	USA 72285793						
TRIPLECROWN SHAMROCK MEG-ET	USA 70673316						
TRIPLECROWN SHAN 515-ET	USA 72285773						
TRIPLECROWN SHAN 516-ET	USA 72285774						
TRIPLECROWN SILVER 117-ET	840003128860377						
TRIPLECROWN SILVER 119-ET	840003128860379						
TRIPLECROWN SILVER 120-ET	840003128860380						
TRIPLECROWN SILVER 121-ET	840003128860381						
TRIPLECROWN SILVER 124-ET	840003128860384						
TRIPLECROWN SILVER 170-ET	840003128860430						
TRIPLECROWN SILVER 197-ET	840003128860457						
TRIPLECROWN SILVER 198-ET	840003128860458						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN SILVER 215-ET	840003133119919						
TRIPLECROWN SILVER 218-ET	840003133119922						
TRIPLECROWN SILVER 95-ET	840003128860355						
TRIPLECROWN SILVER 96-ET	840003128860356						
TRIPLECROWN SILVER 97-ET	840003128860357						
TRIPLECROWN SPRING 195-ET	840003128860455						
TRIPLECROWN SPRING 199-ET	840003128860459						
TRIPLECROWN SPRING 213-ET	840003133119917						
TRIPLECROWN SPRING 219-ET	840003133119923						
TRIPLECROWN SPRING 227-ET	840003133119931						
TRIPLECROWN SPRING 247-ET	840003133119951						
TRIPLECROWN SPRING 265-ET	840003133119969						
TRIPLECROWN SPRING 90-ET	840003128860350						
TRIPLECROWN SS ABBEY-ET	USA 71846009						
TRIPLECROWN SS ADA-ET	USA 71846010						
TRIPLECROWN SS AMBITIOUS-ET	USA 72285718						1
TRIPLECROWN SSHOT 155-ET	840003128860415						
TRIPLECROWN SSHOT 276-ET	840003133119980						
TRIPLECROWN SSHOT 291-ET	840003133119995						
TRIPLECROWN SSHOT BAILEY-ET	840003128860416					C	
TRIPLECROWN SSIRE 595-ET	USA 72997714						
TRIPLECROWN SSIRE 600-ET	USA 72997719						
TRIPLECROWN SSIRE 665-ET	USA 73516923						
TRIPLECROWN SSIRE 668-ET	USA 73516926					C	
TRIPLECROWN SSIRE DARLA-ET	USA 72285763						
TRIPLECROWN SSIRE DESIRE-ET	USA 72285759						
TRIPLECROWN STYLE 13101-ET	840003124557413						
TRIPLECROWN SUNSET 552-ET	USA 72997671						
TRIPLECROWN SUNSET 554-ET	USA 72997673						3
TRIPLECROWN SUNSET 562-ET	USA 72997681						3
TRIPLECROWN SUNSET 581	USA 72997700						
TRIPLECROWN SUPERSHOT 306	840003133120010						
TRIPLECROWN SUPERSHOT 57-ET	840003128860317						
TRIPLECROWN SUPERSHOT 71-ET	840003128860331						
TRIPLECROWN SUPERSHOT 74-ET	840003128860334						
TRIPLECROWN SUPERSHOT 75-ET	840003128860335						
TRIPLECROWN SUPRSHOT 137-ET	840003128860397						
TRIPLECROWN TANGO 631-ET	USA 72997750		C				
TRIPLECROWN TANGO 632-ET	USA 72997751						
TRIPLECROWN TANGO 633-ET	USA 72997752						
TRIPLECROWN TANGO 637-ET	USA 72997756		C				
TRIPLECROWN TANGO 640-ET	USA 72997759		C				
TRIPLECROWN TESLA 165-ET	840003128860425						
TRIPLECROWN TESLA 268-ET	840003133119972		C				
TRIPLECROWN TROY 1-ET	840003128165154						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN TROY 230	840003133119934						
TRIPLECROWN TROY 3-ET	840003128165152						
TRIPLECROWN TROY 969-ET	USA 74186108						
TRIPLECROWN UNO 602-ET	USA 72997721						
TRIPLECROWN UNO 607-ET	USA 72997726						
TRIPLECROWN UNO MIST-ET	USA 72997720						
TRIPLECROWN YODER 238-ET	840003133119942						
TRIPLECROWN-AL BALIS 903-ET	USA 74186042						
TRIPLECROWN-AL CAMDI-ET	USA 72285800						
TRIPLECROWN-AL CMNCH 299-ET	840003133120003						
TRIPLECROWN-AL COLETTE-ET	USA 72285797						
TRIPLECROWN-AL CRANTINI-ET	USA 72285792			C			
TRIPLECROWN-AL DENVR 267-ET	840003133119971						
TRIPLECROWN-AL DIVINE-ET	USA 74186072						
TRIPLECROWN-AL DNVER 270-ET	840003133119974						
TRIPLECROWN-AL DNVER 271-ET	840003133119975						
TRIPLECROWN-AL DNVER 286-ET	840003133119990						
TRIPLECROWN-AL DNVER 301-ET	840003133120005						
TRIPLECROWN-AL JABIR 720-ET	USA 73516978			C			
TRIPLECROWN-AL JABIR 730-ET	USA 73516988						
TRIPLECROWN-AL JABIR 733-ET	USA 73516991			C			
TRIPLECROWN-AL JC COSMO-ET	USA 72997740						
TRIPLECROWN-AL JOSUP 101-ET	840003128860361						
TRIPLECROWN-AL MONTY 929-ET	USA 74186068						
TRIPLECROWN-AL PBALL 72-ET	840003128860332						
TRIPLECROWN-AL RUBICO 12-ET	840003128165143						
TRIPLECROWN-AL RUBICO 13-ET	840003128165142						
TRIPLECROWN-AL SSHOT 282-ET	840003133119986						
TRIPLECROWN-AL SSHOT 287-ET	840003133119991						
TRIPLECROWN-AL SSIRE 696-ET	USA 73516954			C			
TRIPLECROWN-AL SSIRE 703-ET	USA 73516961			C			
TRIPLECROWN-AL SSIRE 870-ET	USA 73963117						
TRIPLECROWN-AL SSIRE 873-ET	USA 73963120						
TRIPLECROWN-AL SSIRE 874-ET	USA 73963121						
TRIPLECROWN-AL SSIRE 876-ET	USA 73963123						
TRIPLECROWN-AL TESLA 273-ET	840003133119977						
TRIPLECROWN-AL TROY 895-ET	USA 73963142						
TRIPLECROWN-AL TROY 898-ET	USA 73963145						
TRIPLECROWN-AL TUFF 965-ET	USA 74939077						
TRIPLECROWN-AL TUFF 970-ET	USA 74186109						
TRIPLECROWN-JW DESTINY	840003128860426						
TRIPLECROWN-JW DOOR 224-ET	840003133119928						
TRIPLECROWN-JW DOOR 232-ET	840003133119936					C	
TRIPLECROWN-JW DOOR WISP-ET	840003128860372						
TRIPLECROWN-MH BOAST 144-ET	840003128860404						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN-MH BOMB 837-ET	USA 73963084						
TRIPLECROWN-MH BOMB 848-ET	USA 73963095						
TRIPLECROWN-MH BOMB 915-ET	USA 74186054						
TRIPLECROWN-MH BOMB 921-ET	USA 74186060						
TRIPLECROWN-MH CACHE 851-ET	USA 73963098						
TRIPLECROWN-MH CAMAR 942-ET	USA 74186081						
TRIPLECROWN-MH CAMAR 948-ET	USA 74186087						
TRIPLECROWN-MH CMNCH 295-ET	840003133119999						
TRIPLECROWN-MH COM 262-ET	840003133119966						
TRIPLECROWN-MH COM 266-ET	840003133119970						
TRIPLECROWN-MH COMAN 279-ET	840003133119983						
TRIPLECROWN-MH COMAN 281-ET	840003133119985						
TRIPLECROWN-MH DELTA 208-ET	840003133119912		C				
TRIPLECROWN-MH DELTA 243-ET	840003133119947						
TRIPLECROWN-MH DELTA 29-ET	840003128165126						
TRIPLECROWN-MH DELTA 292-ET	840003133119996						
TRIPLECROWN-MH DELTA 298-ET	840003133120002						
TRIPLECROWN-MH DELTA 302-ET	840003133120006						
TRIPLECROWN-MH DFEND 787-ET	USA 73517045						
TRIPLECROWN-MH DFEND 798-ET	USA 73517056						
TRIPLECROWN-MH DFEND 802-ET	USA 73963049						
TRIPLECROWN-MH DNVER 280-ET	840003133119984						
TRIPLECROWN-MH DNVER 289-ET	840003133119993						
TRIPLECROWN-MH DRACO 179-ET	840003128860439						
TRIPLECROWN-MH DRACO 226-ET	840003133119930						
TRIPLECROWN-MH HALO 743-ET	USA 73517001						
TRIPLECROWN-MH HALO 745-ET	USA 73517003						
TRIPLECROWN-MH HALO 823-ET	USA 73963070						
TRIPLECROWN-MH HALO 834-ET	USA 73963081						
TRIPLECROWN-MH HALO RIZA-ET	USA 73517015						
TRIPLECROWN-MH JACEY 881-ET	USA 73963128						
TRIPLECROWN-MH JACEY 887-ET	USA 73963134						
TRIPLECROWN-MH JOSUPR 84-ET	840003128860344						
TRIPLECROWN-MH LOTTO 43-ET	840003128165112						
TRIPLECROWN-MH MACK MONA-ET	USA 73516914						
TRIPLECROWN-MH ME 943-ET	USA 74186082						
TRIPLECROWN-MH ME 950-ET	USA 74186089						
TRIPLECROWN-MH ME 973-ET	USA 74186112						
TRIPLECROWN-MH MONTY 940-ET	USA 74186079						
TRIPLECROWN-MH MY GIRL-ET	USA 73516944						
TRIPLECROWN-MH NOMI 806-ET	USA 73963053						
TRIPLECROWN-MH NOMINEE 845	USA 73963092						
TRIPLECROWN-MH OFEST 129-ET	840003128860389						
TRIPLECROWN-MH OFEST 141-ET	840003128860401						
TRIPLECROWN-MH PBALL 58-ET	840003128860318						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN-MH PBALL 93-ET	840003128860353						
TRIPLECROWN-MH PBALL102-ET	840003128860362						
TRIPLECROWN-MH PBALL103-ET	840003128860363						
TRIPLECROWN-MH PROFT 307-ET	840003133120011						
TRIPLECROWN-MH PURE JOY-ET	USA 73963079						
TRIPLECROWN-MH RACER 4-ET	840003128165151						
TRIPLECROWN-MH RUB 24083-ET	840003133372536						
TRIPLECROWN-MH RUBICO 14-ET	840003128165141						
TRIPLECROWN-MH RUBICON 7-ET	840003128165148						
TRIPLECROWN-MH RUBICON 9-ET	840003128165146						
TRIPLECROWN-MH RUBICON GIFT	840003128860419						
TRIPLECROWN-MH SLVER 269-ET	840003133119973						
TRIPLECROWN-MH SLVER 305-ET	840003133120009						
TRIPLECROWN-MH SMAN 229-ET	840003133119933						
TRIPLECROWN-MH SPING 255-ET	840003133119959						
TRIPLECROWN-MH SPRNG 193-ET	840003128860453						
TRIPLECROWN-MH SPRNG 196-ET	840003128860456		C				
TRIPLECROWN-MH SPRNG 204-ET	840003133119908						
TRIPLECROWN-MH SPRNG 207-ET	840003133119911						
TRIPLECROWN-MH SSHOT 192-ET	840003128860452						
TRIPLECROWN-MH SSHOT 285-ET	840003133119989						
TRIPLECROWN-MH SSHOT 296-ET	840003133120000						
TRIPLECROWN-MH SSHOT 73-ET	840003128860333						
TRIPLECROWN-MH SSHOT TIF-ET	840003128860422						
TRIPLECROWN-MH SSHOT TIG-ET	840003128860414						
TRIPLECROWN-MH SSHOT TIP-ET	840003128860424						
TRIPLECROWN-MH TANG RIZA-ET	USA 73963067						
TRIPLECROWN-MH TANGO 635-ET	USA 72997754						
TRIPLECROWN-MH TANGO 641-ET	USA 72997760		C				
TRIPLECROWN-MH TESLA 184-ET	840003128860444		C				
TRIPLECROWN-MH TESLA 187-ET	840003128860447		C				
TRIPLECROWN-MH TESLA 244-ET	840003133119948						
TRIPLECROWN-MH TESLA 250-ET	840003133119954		C				
TRIPLECROWN-MH TESLA 251-ET	840003133119955						
TRIPLECROWN-MH TESLA 254-ET	840003133119958						
TRIPLECROWN-MH TESLA 257-ET	840003133119961						
TRIPLECROWN-MH TOPAZ-ET	840003133120007						
TRIPLECROWN-MH YODER 222-ET	840003133119926						
TRIPLECROWN-MH YODER 225-ET	840003133119929						
TRIPLECROWN-MH YODER 245-ET	840003133119949						
TRIPLECROWN-TAG BRON 657-ET	USA 73516915						
TRIPLECROWN-TAG LB 655-ET	USA 73516913						
TRIPLECROWN-TAG MIRROR-ET	USA 72285714						
TRIPLECROWN-TAG TANG 624-ET	USA 72997743						
TRIPLECROWN-TAG TANG 628-ET	USA 72997747		C				

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIPLECROWN-TAG TANG 629-ET	USA 72997748		C				
TRIPLECROWN-TAG TANG 630-ET	USA 72997749		C				
TRIPLEK-C COLT P OLIVIA	USA 73098758		C				
TRIPLEK-C JABIR DESIRAE-ET	USA 73098769						
TRIPOD-DE BAXTER LULU-ET	USA 139762563						
TRIPOD-DE BOGART PAMELA-ET	USA 69289100						
TRIPOD-DE BOGART PATTY-ET	USA 69289103			C			
TRIPOD-DE DOORMAN TASHA-ET	USA 74352970						
TRIPOD-DE DOORMN TRINITY-ET	USA 74352964						
TRIPOD-DE DORCY TAYLOR-ET	USA 69289102						
TRIPOD-DE DSPATH WILMA 6270	USA 73959899						
TRIPOD-DE SHOTTLE TERRY-ET	USA 69289089						
TRIPOD-DE SUPER FREAK-ET	USA 69289108						
TRIPOD-DE TANGO JAMIE 6095	USA 73959724						
TRIPOD-DE TIME HEART	USA 69289107						
TRIWAY 1STCLASS HOPE-ET	840003126572197						
TRIWAY 1STCLASS HUNNIE-ET	840003126572199						
TRIWAY ABRAM 7017	840003127396163						
TRIWAY ABRAM 7078	840003127396224						
TRIWAY ABRAM 7094	840003127396240					C	
TRIWAY ABRAM 7096	840003127396242						
TRIWAY ABRAM 7118	840003127396264						3
TRIWAY ABRAM 7119	840003127396265						
TRIWAY ABRAM 7120	840003127396266						
TRIWAY ABRAM 7130	840003127396276						3
TRIWAY ABRAM 7136	840003127396282						3
TRIWAY ABRAM 7152	840003127396298						
TRIWAY ABRAM 7170	840003127396316						3
TRIWAY ABRAM 7182	840003127396328						
TRIWAY ABRAM 7216	840003127396362						3
TRIWAY ABRAM 7217	840003127396363						
TRIWAY ABRAM 7235	840003127396381						
TRIWAY ABRAM 7258	840003127396404						
TRIWAY ABRAM 7262	840003127396408						
TRIWAY ABRAM 7295	840003127396441						
TRIWAY ABRAM 7300	840003127396446		C				3
TRIWAY ABRAM 7302	840003130808492						
TRIWAY ABRAM 7320	840003130808510		C				3
TRIWAY ABRAM 7329	840003130808519						
TRIWAY ABRAM 7336	840003130808526	C					
TRIWAY ABRAM 7337	840003130808527						3
TRIWAY ABRAM 7340	840003130808530						3
TRIWAY ABRAM 7349	840003130808539						3
TRIWAY ABRAM 7384	840003130808574						3
TRIWAY ABRAM 7386	840003130808576						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY ABRAM 7433	840003130808623						
TRIWAY AL 5884	USA 72202625						
TRIWAY ALSACE 7527	840003130808717						
TRIWAY ALSACE 7530	840003130808720						
TRIWAY ALSACE 7536	840003130808726						
TRIWAY BALLGAME 7087	840003127396233						
TRIWAY BALLGAME 7125	840003127396271						
TRIWAY BINKY GISSELLE	USA 64727786	C					
TRIWAY BOMBERO DARLING-ET	840003126572191						
TRIWAY BOMBERO DIAMOND-ET	840003126572193						
TRIWAY BOMBERO DOLLY-ET	840003126572190						
TRIWAY BOOKEM 7002	840003127396148						
TRIWAY BOOKEM 7059	840003127396205						
TRIWAY BOOKEM 7066	840003127396212						
TRIWAY BOOKEM 7068	840003127396214						
TRIWAY BOOKEM 7176	840003127396322						
TRIWAY BOOKEM 7338	840003130808528						
TRIWAY BOOKEM 7339	840003130808529						
TRIWAY BOOKEM 7370	840003130808560						
TRIWAY BOOKEM 7398	840003130808588						
TRIWAY BOOKEM 7444	840003130808634						
TRIWAY BOOKEM 7446	840003130808636						
TRIWAY BOOKEM 7478	840003130808668		C				1
TRIWAY BOOKEM 7497	840003130808687						
TRIWAY BOOKEM 7499	840003130808689						
TRIWAY BOOKEM 7543	840003130808733						
TRIWAY BOOKEM 7554	840003130808744						
TRIWAY BOOKEM 7556	840003130808746						
TRIWAY BOOKEM 7565	840003130808755						3
TRIWAY BOOKEM 7567	840003130808757						
TRIWAY BOOKEM 7575	840003130808765						
TRIWAY BOOKEM 7577	840003130808767						
TRIWAY BOOKEM 7588	840003130808778						
TRIWAY BOOKEM 7630	840003130808820						
TRIWAY BOOKEM 7651	840003130808841						
TRIWAY BOOKEM 7652	840003130808842						
TRIWAY BOOKEM 7659	840003130808849						
TRIWAY BOOKEM 7701	840003130808891						
TRIWAY BOOKEM 7702	840003130808892						
TRIWAY BOOKEM 7704	840003130808894			C			
TRIWAY BOOKEM 7712	840003130808902						
TRIWAY BRADNICK 7448	840003130808638						
TRIWAY BRADNICK 7449	840003130808639						
TRIWAY BRADNICK 7470	840003130808660			C			
TRIWAY BRADNICK 7495	840003130808685						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY BRADNICK 7501	840003130808691						
TRIWAY BRADNICK 7518	840003130808708					C	
TRIWAY BRADNICK 7522	840003130808712						
TRIWAY BRADNICK 7537	840003130808727						
TRIWAY BRADNICK 7548	840003130808738						
TRIWAY BRADNICK 7555	840003130808745						
TRIWAY BRADNICK 7560	840003130808750			C			
TRIWAY BRADNICK 7586	840003130808776						
TRIWAY BRADNICK 7587	840003130808777						
TRIWAY BRADNICK 7590	840003130808780						
TRIWAY BRADNICK 7605	840003130808795						
TRIWAY BRADNICK 7625	840003130808815						
TRIWAY BRADNICK 7627	840003130808817			C			
TRIWAY BRADNICK 7649	840003130808839						
TRIWAY BRADNICK 7656	840003130808846						
TRIWAY BRADNICK 7691	840003130808881						
TRIWAY BUZZ 6286	USA 72889591						
TRIWAY CALIBER 7394	840003130808584						
TRIWAY CASABLANCA 5367	USA 71467909						
TRIWAY DASHAWN 7003	840003127396149		C				3
TRIWAY DASHAWN 7009	840003127396155		C				
TRIWAY DASHAWN 7010	840003127396156		C				
TRIWAY DASHAWN 7015	840003127396161						3
TRIWAY DASHAWN 7020	840003127396166						
TRIWAY DASHAWN 7025	840003127396171						
TRIWAY DASHAWN 7062	840003127396208						3
TRIWAY DASHAWN 7074	840003127396220		C				3
TRIWAY DASHAWN 7085	840003127396231						
TRIWAY DASHAWN 7091	840003127396237		C				3
TRIWAY DASHAWN 7099	840003127396245		C				
TRIWAY DASHAWN 7135	840003127396281						
TRIWAY DASHAWN 7137	840003127396283						
TRIWAY DASHAWN 7139	840003127396285						3
TRIWAY DASHAWN 7151	840003127396297			C			3
TRIWAY DASHAWN 7181	840003127396327						3
TRIWAY DASHAWN 7184	840003127396330	C					
TRIWAY DASHAWN 7205	840003127396351		C				
TRIWAY DASHAWN 7206	840003127396352						
TRIWAY DASHAWN 7215	840003127396361			C			
TRIWAY DASHAWN 7218	840003127396364		C				
TRIWAY DASHAWN 7219	840003127396365		C				3
TRIWAY DASHAWN 7252	840003127396398		C			C	
TRIWAY DASHAWN 7265	840003127396411						
TRIWAY DASHAWN 7276	840003127396422						
TRIWAY DASHAWN 7286	840003127396432						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY DASHAWN 7292	840003127396438		C				
TRIWAY DASHAWN 7297	840003127396443						
TRIWAY DASHAWN 7299	840003127396445					C	
TRIWAY DASHAWN 7303	840003130808493		C				
TRIWAY DASHAWN 7304	840003130808494						
TRIWAY DASHAWN 7305	840003130808495					C	
TRIWAY DASHAWN 7312	840003130808502						3
TRIWAY DASHAWN 7313	840003130808503						3
TRIWAY DASHAWN 7324	840003130808514						
TRIWAY DASHAWN 7325	840003130808515						
TRIWAY DASHAWN 7327	840003130808517	C					
TRIWAY DASHAWN 7328	840003130808518	C	C			C	
TRIWAY DASHAWN 7335	840003130808525						
TRIWAY DASHAWN 7342	840003130808532						
TRIWAY DASHAWN 7383	840003130808573		C				3
TRIWAY DASHAWN 7389	840003130808579		C				3
TRIWAY DASHAWN 7390	840003130808580						
TRIWAY DASHAWN 7391	840003130808581		C				3
TRIWAY DASHAWN 7397	840003130808587						
TRIWAY DASHAWN 7411	840003130808601						
TRIWAY DEFENDER 7110	840003127396256						
TRIWAY DEFENDER 7117	840003127396263						3
TRIWAY DEFENDER 7142	840003127396288						
TRIWAY DEFENDER 7144	840003127396290						
TRIWAY DEFENDER 7162	840003127396308						
TRIWAY DEFENDER 7166	840003127396312						
TRIWAY DEFUSE 7346	840003130808536						
TRIWAY DEFUSE 7434	840003130808624						
TRIWAY DEFUSE 7443	840003130808633	C					
TRIWAY DELFINO 7472	840003130808662						
TRIWAY DELFINO 7528	840003130808718						
TRIWAY DELFINO 7552	840003130808742		C	C			
TRIWAY DELFINO 7561	840003130808751						
TRIWAY DELIRIUM 7039	840003127396185						
TRIWAY DELTA ALFA-ET	840003126572203						
TRIWAY DELTA BRAVO-ET	840003126572204						
TRIWAY DELTA ECHO-ET	840003126572205						
TRIWAY DELTA FOXTROT-ET	840003126572208						
TRIWAY DELTA JULIETT-ET	840003126572206						
TRIWAY DELTA KILO-ET	840003126572207						
TRIWAY DELTA LIMA-ET	840003126572209						
TRIWAY DELTA ZULU	840003126572210						
TRIWAY DEMPSEY 5965	USA 72533957						
TRIWAY DERRIS 7532	840003130808722						
TRIWAY DERRIS 7540	840003130808730						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY DESHAUN 7641	840003130808831						
TRIWAY DESHAUN 7647	840003130808837						
TRIWAY DESHAUN 7661	840003130808851						
TRIWAY DESHAUN 7668	840003130808858						
TRIWAY DESHAUN 7669	840003130808859						
TRIWAY DESHAUN 7677	840003130808867						
TRIWAY DESHAUN 7684	840003130808874						
TRIWAY DEYJA 7164	840003127396310						
TRIWAY DEYJA 7178	840003127396324						
TRIWAY DEYJA 7180	840003127396326						
TRIWAY DEYJA 7194	840003127396340					C	
TRIWAY DEYJA 7209	840003127396355						
TRIWAY DEYJA 7239	840003127396385						
TRIWAY DEYJA 7250	840003127396396						
TRIWAY DEYJA 7251	840003127396397						
TRIWAY DEYJA 7253	840003127396399						
TRIWAY DEYJA 7259	840003127396405						
TRIWAY DEYJA 7288	840003127396434					C	
TRIWAY DEYJA 7289	840003127396435						
TRIWAY DEYJA 7310	840003130808500						
TRIWAY DEYJA 7330	840003130808520						
TRIWAY DEYJA 7334	840003130808524						
TRIWAY DEYJA 7343	840003130808533						
TRIWAY DEYJA 7348	840003130808538						
TRIWAY DEYJA 7357	840003130808547						
TRIWAY DEYJA 7364	840003130808554			C			
TRIWAY DEYJA 7387	840003130808577			C			
TRIWAY DEYJA 7395	840003130808585						
TRIWAY DEYJA 7402	840003130808592						
TRIWAY DEYJA 7404	840003130808594						
TRIWAY DEYJA 7406	840003130808596						
TRIWAY DEYJA 7416	840003130808606						
TRIWAY DICTION 7116	840003127396262						
TRIWAY DICTION 7154	840003127396300						
TRIWAY DJANGO 7013	840003127396159						
TRIWAY DJANGO 7023	840003127396169						
TRIWAY DOMINGO 7012	840003127396158						
TRIWAY DOMINGO 7021	840003127396167						
TRIWAY DOMINGO 7028	840003127396174						
TRIWAY DOMINGO 7058	840003127396204						
TRIWAY DOMINGO 7111	840003127396257						
TRIWAY DOMINGO 7123	840003127396269						
TRIWAY DOMINGO 7168	840003127396314						
TRIWAY DOMINGO 7169	840003127396315						
TRIWAY DOMINGO 7227	840003127396373						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY DOMINGO 7243	840003127396389						
TRIWAY DUVAL 7140	840003127396286						
TRIWAY DUVAL 7175	840003127396321	C					
TRIWAY EDDY 7572	840003130808762	C					
TRIWAY EDDY 7576	840003130808766						
TRIWAY ENID 7000	840003127396146			C			
TRIWAY ENID 7016	840003127396162	C		C			
TRIWAY ENID 7019	840003127396165	C		C			
TRIWAY ENID 7029	840003127396175	C		C			
TRIWAY ENID 7065	840003127396211						
TRIWAY ENID 7075	840003127396221			C			
TRIWAY ENID 7109	840003127396255			C			
TRIWAY EVOLVE 7245	840003127396391						
TRIWAY EVOLVE 7274	840003127396420						
TRIWAY EVOLVE 7277	840003127396423						3
TRIWAY EVOLVE 7282	840003127396428						
TRIWAY EVOLVE 7290	840003127396436						
TRIWAY FEATURE 7493	840003130808683						
TRIWAY FEATURE 7581	840003130808771						
TRIWAY FERRON 7022	840003127396168						
TRIWAY FIRESTORM 7107	840003127396253						
TRIWAY FIRESTORM 7112	840003127396258						
TRIWAY GABOR 6569	840003124023458						
TRIWAY GABOR 7008	840003127396154						
TRIWAY GABOR 7035	840003127396181						
TRIWAY GABOR 7044	840003127396190						
TRIWAY GABOR 7077	840003127396223						
TRIWAY GABOR 7088	840003127396234						1
TRIWAY GABOR 7089	840003127396235						3
TRIWAY GABOR 7093	840003127396239						
TRIWAY GABOR 7108	840003127396254						
TRIWAY GABOR 7113	840003127396259						1
TRIWAY GOLD CHIP 7486-ET	840003130808676						
TRIWAY GOLD CHIP 7489-ET	840003130808679						
TRIWAY GRAFEETI 7485	840003130808675						
TRIWAY GRAFEETI 7503	840003130808693						
TRIWAY GRAFEETI 7506	840003130808696						1
TRIWAY GRAFEETI 7510	840003130808700						3
TRIWAY GRAFEETI 7525	840003130808715			C			1
TRIWAY GRAFEETI 7538	840003130808728						1
TRIWAY GRAFEETI 7545	840003130808735						3
TRIWAY GRAFEETI 7559	840003130808749						3
TRIWAY GRAFEETI 7578	840003130808768						
TRIWAY GRAFEETI 7584	840003130808774						1
TRIWAY GRAFEETI 7591	840003130808781		C				

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY GRAFEETI 7597	840003130808787						3
TRIWAY GRAFEETI 7620	840003130808810						3
TRIWAY GULF 7436	840003130808626						
TRIWAY GULF 7456	840003130808646						
TRIWAY GULF 7464	840003130808654						
TRIWAY GULF 7507	840003130808697						
TRIWAY GULF 7511	840003130808701						
TRIWAY GULF 7513	840003130808703	C					
TRIWAY GULF 7526	840003130808716		C				
TRIWAY GULF 7531	840003130808721						
TRIWAY GULF 7562	840003130808752						
TRIWAY GULF 7570	840003130808760						
TRIWAY GULF 7573	840003130808763						
TRIWAY GULF 7574	840003130808764						
TRIWAY GULF 7583	840003130808773						
TRIWAY GULF 7596	840003130808786						
TRIWAY GUTHRIE 5271	USA 71043730						
TRIWAY H2O 5534	USA 71852180						
TRIWAY HALOGEN 7192	840003127396338						
TRIWAY HALOGEN 7210	840003127396356						
TRIWAY HALOGEN 7213	840003127396359						
TRIWAY HALOGEN 7246	840003127396392						
TRIWAY HALOGEN 7256	840003127396402						
TRIWAY HALOGEN 7264	840003127396410						
TRIWAY HALOGEN 7316	840003130808506						
TRIWAY HALOGEN 7356	840003130808546			C			
TRIWAY HALOGEN 7399	840003130808589						
TRIWAY HALOGEN 7405	840003130808595						
TRIWAY HALOGEN 7418	840003130808608						
TRIWAY HALOGEN 7419	840003130808609						
TRIWAY HALOGEN 7453	840003130808643						
TRIWAY HALOGEN 7463	840003130808653						
TRIWAY HALOGEN 7469	840003130808659						
TRIWAY HALOGEN 7473	840003130808663						
TRIWAY HALOGEN 7475	840003130808665	C					
TRIWAY HALOGEN 7477	840003130808667						
TRIWAY HALOGEN 7484	840003130808674						
TRIWAY HALOGEN 7488	840003130808678						
TRIWAY HALOGEN 7496	840003130808686						
TRIWAY HALOGEN 7519	840003130808709						
TRIWAY HALOGEN 7520	840003130808710						
TRIWAY HALOGEN 7524	840003130808714						
TRIWAY HALOGEN 7541	840003130808731						
TRIWAY HALOGEN 7542	840003130808732						
TRIWAY HALOGEN 7549	840003130808739						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY HALOGEN 7551	840003130808741						
TRIWAY HALOGEN 7557	840003130808747						
TRIWAY HALOGEN 7569	840003130808759						
TRIWAY HALOGEN 7600	840003130808790						
TRIWAY HALOGEN 7607	840003130808797						
TRIWAY HALOGEN 7611	840003130808801						
TRIWAY HALOGEN 7621	840003130808811						
TRIWAY HALOGEN 7623	840003130808813						
TRIWAY HALOGEN 7624	840003130808814						
TRIWAY HALOGEN 7631	840003130808821						
TRIWAY HALOGEN DAISY-ET	840003126572192						
TRIWAY HALOGEN MARIAH-ET	840003127396093						
TRIWAY HAMPTON 7595	840003130808785						
TRIWAY HARRY 7200	840003127396346						
TRIWAY INSPECT 7437	840003130808627						
TRIWAY INSPECT 7440	840003130808630						
TRIWAY INSPECT 7452	840003130808642						
TRIWAY INSPECT 7474	840003130808664						
TRIWAY INSPECT 7476	840003130808666						
TRIWAY INSPECT 7482	840003130808672						
TRIWAY INSPECT 7487	840003130808677						
TRIWAY INSPECT 7491	840003130808681						
TRIWAY INSPECT 7512	840003130808702						
TRIWAY INSPECT 7514	840003130808704						
TRIWAY INSPECT 7517	840003130808707						
TRIWAY INSPECT 7521	840003130808711						
TRIWAY INSPECT 7523	840003130808713						
TRIWAY INSPECT 7589	840003130808779						
TRIWAY INSPECT 7602	840003130808792						
TRIWAY INSPECT 7603	840003130808793						
TRIWAY IRONBACK 7633	840003130808823						
TRIWAY JABIR 6690-ET	840003124023579						
TRIWAY JABIR 6703-ET	840003125455422						
TRIWAY JABIR 7102	840003127396248						
TRIWAY JABIR 7580	840003130808770			C			
TRIWAY KID 7236	840003127396382						
TRIWAY KID 7241	840003127396387						
TRIWAY KID 7323	840003130808513						
TRIWAY KID 7345	840003130808535						
TRIWAY KID 7350	840003130808540						
TRIWAY KID 7355	840003130808545						
TRIWAY KID 7374	840003130808564						
TRIWAY KID 7401	840003130808591						
TRIWAY KID 7421	840003130808611						
TRIWAY KID 7428	840003130808618						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY KID 7432	840003130808622						
TRIWAY KINGBOY 7424	840003130808614						
TRIWAY KINGBOY 7438	840003130808628						
TRIWAY KINGBOY 7454	840003130808644						
TRIWAY KINGBOY 7461	840003130808651						
TRIWAY KINGBOY 7466-TW	840003130808656						
TRIWAY KINGBOY 7467-TW	840003130808657						
TRIWAY KINGBOY 7468	840003130808658						
TRIWAY KINGBOY 7480	840003130808670						
TRIWAY KINGBOY 7504	840003130808694						
TRIWAY KINGBOY 7505	840003130808695						
TRIWAY KINGBOY 7515	840003130808705						
TRIWAY KINGBOY 7533-TW	840003130808723						
TRIWAY KINGBOY 7539	840003130808729						
TRIWAY KINGBOY 7547	840003130808737						
TRIWAY KINGBOY 7564	840003130808754						
TRIWAY KINGBOY 7571	840003130808761						
TRIWAY KINGBOY 7579	840003130808769						
TRIWAY KINGBOY 7582	840003130808772						
TRIWAY KINGBOY 7610	840003130808800	C					
TRIWAY KINGBOY 7617	840003130808807						
TRIWAY KINGBOY BABYFACE-ET	840003126572195						
TRIWAY KINGBOY MOONBEAM-ET	840003130808553						
TRIWAY LADD MAN-P 7606	840003130808796						
TRIWAY LADD MAN-P 7612	840003130808802						
TRIWAY LENSAR 7053	840003127396199						
TRIWAY LENSAR 7067	840003127396213						
TRIWAY LENSAR 7082	840003127396228						
TRIWAY LEO 7598	840003130808788						
TRIWAY LEO 7599	840003130808789		C				
TRIWAY LEO 7608	840003130808798						
TRIWAY LIGHTS OUT 7018	840003127396164			C			
TRIWAY LOWERY 7616	840003130808806						
TRIWAY LOWERY 7619	840003130808809						1
TRIWAY LOWERY 7628	840003130808818						1
TRIWAY LYNEX 7516	840003130808706						
TRIWAY LYNEX 7553	840003130808743						
TRIWAY LYNEX 7563	840003130808753						
TRIWAY MAC TORI	USA 65582439						
TRIWAY MACATTACK 7358	840003130808548						
TRIWAY MACATTACK 7420	840003130808610						
TRIWAY MALCOM 7341	840003130808531						
TRIWAY MARINO 7185	840003127396331						
TRIWAY MARIS 7372	840003130808562						
TRIWAY MARIS 7388	840003130808578						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY MATCH 7203	840003127396349						
TRIWAY MATCH 7207	840003127396353						
TRIWAY MATCH 7220	840003127396366						
TRIWAY MATCH 7222	840003127396368						
TRIWAY MAYFLOWER 6141	USA 72889446						
TRIWAY MCCUTCHEN 6299	USA 72889604			C			
TRIWAY MCCUTCHEN 7644	840003130808834						
TRIWAY MCCUTCHEN 7645	840003130808835						
TRIWAY MCCUTCHEN 7654	840003130808844						
TRIWAY MCCUTCHEN 7657	840003130808847						
TRIWAY MCCUTCHEN 7670	840003130808860						
TRIWAY MCCUTCHEN 7671	840003130808861						
TRIWAY MCCUTCHEN 7687	840003130808877						
TRIWAY MCCUTCHEN 7689	840003130808879						
TRIWAY MCCUTCHEN 7700	840003130808890						
TRIWAY MCCUTCHEN 7703	840003130808893						
TRIWAY MCCUTCHEN 7707	840003130808897						
TRIWAY MCNUGGETS 7005	840003127396151						
TRIWAY MCNUGGETS 7011	840003127396157						3
TRIWAY MCNUGGETS 7054	840003127396200						
TRIWAY MCNUGGETS 7057	840003127396203						
TRIWAY MCNUGGETS 7080	840003127396226						
TRIWAY MCNUGGETS 7106	840003127396252						
TRIWAY MCNUGGETS 7114	840003127396260						
TRIWAY MCNUGGETS 7121	840003127396267	C					
TRIWAY MCNUGGETS 7173	840003127396319						
TRIWAY MEGASIRE 6952	840003127396098						
TRIWAY MEGASIRE 7097	840003127396243						
TRIWAY MEGASIRE DESIRE	840003126572194						
TRIWAY MIDNIGHT 7186	840003127396332						
TRIWAY MIDNIGHT 7198	840003127396344						
TRIWAY MIDNIGHT 7261	840003127396407						
TRIWAY MIDNIGHT 7287	840003127396433						
TRIWAY MIDNIGHT 7296	840003127396442						
TRIWAY MIDNIGHT 7331	840003130808521						3
TRIWAY MIDNIGHT 7347	840003130808537						
TRIWAY MIDNIGHT 7365	840003130808555						
TRIWAY MIDNIGHT 7407	840003130808597						
TRIWAY MIDNIGHT 7426	840003130808616					C	
TRIWAY MILES 6785	840003125993434						
TRIWAY MILES 6964	840003127396110						
TRIWAY MILES 7032	840003127396178						
TRIWAY MILES 7046	840003127396192			C			
TRIWAY MILES 7153	840003127396299						3
TRIWAY MINNESOTA 7254	840003127396400						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY MOBY 7285	840003127396431						
TRIWAY MOGUL 6456	USA 73324066						
TRIWAY MOGUL 6533	840003124023422						
TRIWAY MOGUL 6547	840003124023436						
TRIWAY MOGUL 6558	840003124023447						
TRIWAY MOGUL 6673-TW	840003124023562						
TRIWAY MOGUL 6674-TW	840003124023563						
TRIWAY MOGUL 6715	840003125455410						
TRIWAY MOGUL 6740	840003125455385						
TRIWAY MOGUL 6843	840003125993492						
TRIWAY MOGUL 6870	840003125993519						
TRIWAY MOGUL 7634	840003130808824						
TRIWAY MOGUL 7639	840003130808829						
TRIWAY MOGUL 7646	840003130808836						
TRIWAY MOGUL 7667	840003130808857						
TRIWAY MOGUL 7672	840003130808862	C					
TRIWAY MOGUL 7675	840003130808865						
TRIWAY MOGUL 7676	840003130808866						
TRIWAY MOGUL 7686	840003130808876						
TRIWAY MOGUL 7692	840003130808882						
TRIWAY MOGUL 7697	840003130808887						
TRIWAY MONTEREY HAZEL-ET	840003126572200						
TRIWAY MOONSHINE 7103	840003127396249						
TRIWAY MOONSHINE 7122	840003127396268						
TRIWAY MOONSHINE 7197	840003127396343						
TRIWAY MOONSHINE 7230	840003127396376						3
TRIWAY MOONSHINE 7465	840003130808655						
TRIWAY MOONSHINE 7494	840003130808684					C	
TRIWAY MOONSHINE 7544	840003130808734						
TRIWAY MUSTHAVE 7393	840003130808583						
TRIWAY MUSTHAVE 7415	840003130808605						
TRIWAY MUSTHAVE 7431	840003130808621						
TRIWAY MUSTHAVE 7442	840003130808632						
TRIWAY MYSTIC 6132	USA 72889437						
TRIWAY NUMERO UNO 7679	840003130808869						
TRIWAY NUMERO UNO 7690	840003130808880						
TRIWAY O-BENNET 7188	840003127396334						
TRIWAY O-BENNET 7190	840003127396336						
TRIWAY O-BENNET 7191	840003127396337						
TRIWAY O-BENNET 7208	840003127396354						
TRIWAY O-BENNET 7212	840003127396358						
TRIWAY O-BENNET 7225	840003127396371						
TRIWAY O-BENNET 7237	840003127396383						3
TRIWAY O-BENNET 7247	840003127396393						
TRIWAY O-BENNET 7249	840003127396395		C				3

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY O-BENNET 7269	840003127396415						
TRIWAY O-BENNET 7291	840003127396437						
TRIWAY O-BENNET 7307	840003130808497						
TRIWAY O-BENNET 7309	840003130808499						
TRIWAY O-BENNET 7314	840003130808504						
TRIWAY O-BENNET 7322	840003130808512						3
TRIWAY O-BENNET 7326	840003130808516						
TRIWAY O-BENNET 7369	840003130808559						
TRIWAY O-BENNET 7377	840003130808567						
TRIWAY O-BENNET 7380	840003130808570						
TRIWAY O-BENNET 7381	840003130808571						
TRIWAY O-BENNET 7392	840003130808582						
TRIWAY O-BENNET 7400	840003130808590						
TRIWAY O-BENNET 7409	840003130808599						
TRIWAY OBSERVER 6479	USA 73324089						
TRIWAY OBSERVER 6495	USA 73324105						
TRIWAY OLEGANT 5804	USA 72202545						
TRIWAY PAUL 7149	840003127396295						
TRIWAY PAUL 7150	840003127396296						
TRIWAY PAUL 7174	840003127396320						
TRIWAY PAUL 7211	840003127396357						
TRIWAY PAUL 7228	840003127396374						
TRIWAY PAUL 7229	840003127396375						
TRIWAY PAUL 7231	840003127396377						
TRIWAY PAUL 7233	840003127396379						
TRIWAY PAUL 7234	840003127396380						
TRIWAY PAUL 7242	840003127396388	C	C				
TRIWAY PAUL 7248	840003127396394						
TRIWAY PAUL 7255	840003127396401						
TRIWAY PAUL 7266	840003127396412						
TRIWAY PAUL 7283	840003127396429						3
TRIWAY PAUL 7317	840003130808507						
TRIWAY PAUL 7353	840003130808543						
TRIWAY PAUL 7360	840003130808550						
TRIWAY PAUL 7368	840003130808558						
TRIWAY PAUL 7375	840003130808565						
TRIWAY PAUL 7376	840003130808566						
TRIWAY PAUL 7382	840003130808572						
TRIWAY PAUL 7385	840003130808575						
TRIWAY PAUL 7396	840003130808586						
TRIWAY PAUL 7412	840003130808602	C					
TRIWAY PAUL 7430	840003130808620						1
TRIWAY PAXTON 7071	840003127396217						
TRIWAY PAXTON 7079	840003127396225						
TRIWAY PAXTON 7189	840003127396335						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY PETRONE 5813	USA 72202554	C					
TRIWAY PETRONE 5845	USA 72202586						
TRIWAY PETRONE 5986	USA 72533978						
TRIWAY PETRONE 6171	USA 72889476			C			
TRIWAY PETRONE 7663	840003130808853						
TRIWAY PETRONE 7664	840003130808854						
TRIWAY PETRONE 7666	840003130808856						
TRIWAY PETRONE 7678	840003130808868						
TRIWAY PETRONE 7680	840003130808870						
TRIWAY PETRONE 7688	840003130808878						
TRIWAY PETRONE 7693	840003130808883						
TRIWAY PETRONE 7709	840003130808899						
TRIWAY PETY 7006	840003127396152					C	
TRIWAY PETY 7014	840003127396160						
TRIWAY PETY 7024	840003127396170						
TRIWAY PETY 7030	840003127396176						
TRIWAY PETY 7033	840003127396179						
TRIWAY PETY 7069	840003127396215						
TRIWAY PETY 7073	840003127396219						
TRIWAY PETY 7076	840003127396222						
TRIWAY PETY 7100	840003127396246			C			
TRIWAY PETY 7115	840003127396261						
TRIWAY PETY 7128	840003127396274						
TRIWAY PETY 7141	840003127396287						
TRIWAY PETY 7156	840003127396302						
TRIWAY PETY 7157	840003127396303						
TRIWAY PETY 7161	840003127396307						
TRIWAY PETY 7177	840003127396323						
TRIWAY PETY 7179	840003127396325						
TRIWAY PHOE 7187	840003127396333						
TRIWAY PITNEY 7682	840003130808872						
TRIWAY PLANET 4192	USA 69208503						
TRIWAY PLANET 4682	USA 69970024						
TRIWAY PLANET 4772	USA 70267254						
TRIWAY PLANET 5329	USA 71467871	C					
TRIWAY PLANET 5683	USA 71852329						
TRIWAY PLANET MOONLIGHT	USA 66202865			C			
TRIWAY POLKA DOT 7585	840003130808775						1
TRIWAY PONDER 7026	840003127396172						
TRIWAY PONDER 7043	840003127396189						
TRIWAY PONDER 7061	840003127396207						
TRIWAY PONDER 7072	840003127396218						
TRIWAY PONDER 7101	840003127396247						
TRIWAY PONDER 7133	840003127396279						1
TRIWAY PONDER 7145	840003127396291	C					

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY PONDER 7172	840003127396318						
TRIWAY PONDER 7214	840003127396360		C				3
TRIWAY PONDER 7267	840003127396413						
TRIWAY PONDER 7275	840003127396421						
TRIWAY PONDER 7284	840003127396430		C				3
TRIWAY PONDER 7311	840003130808501						
TRIWAY PONDER 7410	840003130808600						
TRIWAY PONDER 7413	840003130808603			C			
TRIWAY RANSOM 6959	840003127396105						
TRIWAY REBEL 7038-ET	840003127396184						
TRIWAY REBEL 7055	840003127396201					C	
TRIWAY REBEL 7064	840003127396210					C	
TRIWAY REBEL 7131	840003127396277			C		C	
TRIWAY REBEL 7146	840003127396292						
TRIWAY REFLECTOR 7193	840003127396339						
TRIWAY REFLECTOR 7196	840003127396342						
TRIWAY REFLECTOR 7224	840003127396370						
TRIWAY REFLECTOR 7226	840003127396372						
TRIWAY REFLECTOR 7232	840003127396378						
TRIWAY REFLECTOR 7257	840003127396403						
TRIWAY REFLECTOR 7263	840003127396409						
TRIWAY REFLECTOR 7279	840003127396425						
TRIWAY REFLECTOR 7306	840003130808496						
TRIWAY REFLECTOR 7319	840003130808509						
TRIWAY REFLECTOR 7321	840003130808511						
TRIWAY REFLECTOR 7373	840003130808563						3
TRIWAY REFLECTOR 7403	840003130808593						
TRIWAY REFLECTOR 7417	840003130808607						
TRIWAY REFLECTOR 7451	840003130808641						
TRIWAY REFLECTOR 7462	840003130808652						
TRIWAY ROBUST 5652	USA 71852298						
TRIWAY SABURO 7455	840003130808645						
TRIWAY SABURO 7471	840003130808661						
TRIWAY SATURN 7615	840003130808805						
TRIWAY SATURN 7637	840003130808827						
TRIWAY SENOR 6236	USA 72889541						3
TRIWAY SHAMROCK 7004	840003127396150						
TRIWAY SHAMROCK 7060	840003127396206						
TRIWAY SHAMROCK 7063	840003127396209						
TRIWAY SHAMROCK 7070	840003127396216						
TRIWAY SHAMROCK 7086	840003127396232						
TRIWAY SHAMROCK 7092	840003127396238						
TRIWAY SHAMROCK 7098	840003127396244						
TRIWAY SHAMROCK 7104	840003127396250						
TRIWAY SHAMROCK 7105	840003127396251		C				

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY SHAMROCK 7124	840003127396270						
TRIWAY SHAMROCK 7126	840003127396272						
TRIWAY SHAMROCK 7138	840003127396284						
TRIWAY SPARK 7614	840003130808804						
TRIWAY SPARK 7622	840003130808812						
TRIWAY SPARK 7655	840003130808845						
TRIWAY SPARK 7673	840003130808863						
TRIWAY SPARK 7674	840003130808864						
TRIWAY SPARK HOTSTREAK	840003126572211						
TRIWAY SPEAKER 7423	840003130808613						
TRIWAY STENSON 7034	840003127396180						
TRIWAY STORMATIC GRACIELA	USA 62199489						
TRIWAY SUPERSIRE 6744	840003125455381						
TRIWAY SUPERSIRE 6783	840003125993432						
TRIWAY SUPERSIRE 6809	840003125993458						
TRIWAY SUPERSIRE 6815	840003125993464						
TRIWAY SUPERSIRE 6879	840003125993528						
TRIWAY SUPERSIRE 6910	840003127396056						
TRIWAY SUPERSIRE 6913	840003127396059						
TRIWAY SUPERSIRE 6930	840003127396076						
TRIWAY SUPERSIRE 6932	840003127396078						
TRIWAY TATUM 7195	840003127396341		C				
TRIWAY TATUM 7202	840003127396348		C				
TRIWAY TATUM 7204	840003127396350		C				
TRIWAY TATUM 7221	840003127396367						
TRIWAY TATUM 7223	840003127396369						
TRIWAY TATUM 7244	840003127396390		C				
TRIWAY TATUM 7315	840003130808505		C	C			
TRIWAY TATUM 7344	840003130808534		C				
TRIWAY TATUM 7354	840003130808544						
TRIWAY TATUM 7359	840003130808549						
TRIWAY TATUM 7362	840003130808552		C				
TRIWAY TATUM 7366	840003130808556		C				
TRIWAY TATUM 7367	840003130808557		C				
TRIWAY TATUM 7422	840003130808612		C				
TRIWAY TATUM 7429	840003130808619			C			
TRIWAY TEACHER 7294	840003127396440		C	C			3
TRIWAY TUCKER 7351	840003130808541						
TRIWAY TUCKER 7361	840003130808551						
TRIWAY WARBUCKS 7439	840003130808629						
TRIWAY WATSON 7007	840003127396153					C	
TRIWAY WATSON 7090	840003127396236			C			
TRIWAY WATSON 7171	840003127396317						
TRIWAY WATSON 7183	840003127396329						
TRIWAY WATSON 7238	840003127396384						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRIWAY WATSON 7352	840003130808542					C	
TRIWAY WATSON 7613	840003130808803						
TRIWAY WATSON 7618	840003130808808					C	
TRIWAY YANCE 6912	840003127396058						
TRIWAY YANCE 7027	840003127396173						
TRIWAY YANCE 7031	840003127396177						
TRIWAY YANCE 7127	840003127396273						3
TRIWAY YANCE 7143	840003127396289						
TRIWAY YANCE 7147	840003127396293						
TRIWAY YANCE 7155	840003127396301						
TRIWAY YANCE 7199	840003127396345						
TRIWAY YANCE 7240	840003127396386			C			
TRIWAY YODER 7479	840003130808669						
TRIWAY YODER 7481	840003130808671						
TRIWAY YODER 7498	840003130808688						3
TRIWAY YODER 7500	840003130808690						
TRIWAY YODER 7502	840003130808692					C	
TRIWAY YODER 7508	840003130808698						
TRIWAY YODER 7546	840003130808736						
TRIWAY YODER 7550	840003130808740						
TRIWAY YODER 7592	840003130808782						
TRIWAY YODER 7601	840003130808791						
TRIWAY YODER 7626	840003130808816						
TRIWAY YODER 7632	840003130808822						
TRIWAY YODER 7635	840003130808825						
TRIWAY YODER 7650	840003130808840						
TRIWAY YODER 7653	840003130808843						
TRIWAY YODER 7660	840003130808850						
TRIWAY YODER 7685	840003130808875						
TRIWAY YODER 7695	840003130808885						
TRIWAY YODER 7696	840003130808886						
TRIWAY YODER 7699	840003130808889						
TRIWAY YODER 7710	840003130808900						
TRIWAY YODER 7711	840003130808901						
TRIWAY YODER DAHLIA-ET	840003126572202						
TRIWAY YODER DALILAH-ET	840003126572201						
TRIWAY ZIMMER 7084	840003127396230						
TRIWAY ZIMMER 7132	840003127396278						
TRIWAY ZIMMER 7158	840003127396304						
TRIWAY ZIMMER 7318	840003130808508						
TRIWAY ZIMMER 7332	840003130808522						
TRIWAY ZIMMER 7371	840003130808561						
TRIWAY ZIMMER 7425	840003130808615			C			
TRJ-VAIL AHYMA 57255-ET	840003010356002						1
TROIKA GAVOR VEARA	USA 64932268						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TROPICAL MARSHALL BETTY-ET	USA 137119181						
TROTACRE TOBIN ALEX IVY	USA 71857761						
TRU-VISION DESTROY FAIRY-RED	USA 66984115						3
TRU-VISION GOLD FAMOUS-ET	USA 139184202						1
TRU-VISION SHOTTL XPRESS-ET	USA 139878828					C	
TRU-VISION TLNT RUBY-RED	USA 70367591						1
TRUE-BLUE ALTON 1942	USA 64504325						
TRUE-BLUE ALTON 1945	USA 64504328						
TRUE-BLUE ARGON 3404	USA 71435835		C				
TRUE-BLUE ARMITAGE 3269	USA 70925438						
TRUE-BLUE ARMITAGE 3299	USA 70925468						
TRUE-BLUE ARMITAGE 3326	USA 70925495						
TRUE-BLUE ATTITUDE 3400-RED	USA 71435831						
TRUE-BLUE BEAU 3314-ET	USA 70925483						
TRUE-BLUE BEAU 3315-ET	USA 70925484						
TRUE-BLUE BEAU 3318-ET	USA 70925487						
TRUE-BLUE BEAU 3319-ET	USA 70925488						
TRUE-BLUE BEAU 3322-ET	USA 70925491						
TRUE-BLUE BOULDER 2813	USA 69781471						
TRUE-BLUE BURT 1746	USA 63179530						
TRUE-BLUE CRUZ 3290	USA 70925459						
TRUE-BLUE CYPRUS 3035	USA 70399239						
TRUE-BLUE DIE-HARD 1587	USA 62746192						
TRUE-BLUE EMERALD 3524-ET	USA 71435955	C					1
TRUE-BLUE FREDDIE 2822	USA 69781480						
TRUE-BLUE GARRETT 2725	USA 69535026						
TRUE-BLUE GERARD 2888	USA 69967285						
TRUE-BLUE GERARD 2927-ET	USA 69967324						
TRUE-BLUE GERARD 3011	USA 70399215						
TRUE-BLUE GERARD 3136	USA 70543051						
TRUE-BLUE GOLDWYN 1571-ET	USA 62746176	C					
TRUE-BLUE GOLDWYN 1574-ET	USA 62746179	C					1
TRUE-BLUE GURCHAN 3358	USA 71435789					C	
TRUE-BLUE GWEEDO 2883	USA 69967280						
TRUE-BLUE HAYDEN 2564-ET	USA 69074148			C			
TRUE-BLUE HILL 3301	USA 70925470						
TRUE-BLUE IOTA 3381-ET	USA 71435812						
TRUE-BLUE IOTA 3390-ET	USA 71435821		C				
TRUE-BLUE IOTA 3391-ET	USA 71435822						
TRUE-BLUE JEEVES 2293-ET	USA 66438819						
TRUE-BLUE JET STREAM 1687	USA 63179471						1
TRUE-BLUE JETSTREAM 1781-ET	USA 63644800						
TRUE-BLUE JETSTREAM 1783-ET	USA 63644802						
TRUE-BLUE JETSTREAM 1933-ET	USA 64504316						
TRUE-BLUE JETSTREAM 1938-ET	USA 64504321						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRUE-BLUE JIVES 3275	USA 70925444						
TRUE-BLUE LARGE 3465	USA 71435896						
TRUE-BLUE LARGE 3496	USA 71435927						
TRUE-BLUE LERO 3458-ET	USA 71435889						
TRUE-BLUE LEVI 3360	USA 71435791						
TRUE-BLUE LEVI 3363	USA 71435794			C			
TRUE-BLUE LEVI 3538	USA 71435969			C			
TRUE-BLUE MAN-O-MAN 2814	USA 69781472					C	
TRUE-BLUE MAN-O-MAN 2619-ET	USA 69074203						
TRUE-BLUE MAN-O-MAN 2666-ET	USA 69534967						
TRUE-BLUE MAUI 3354-ET	USA 71435785						
TRUE-BLUE MAUI 3368-ET	USA 71435799		C				
TRUE-BLUE MAUI 3373	USA 71435804						
TRUE-BLUE MEGA-MAN 2371	USA 66857791						
TRUE-BLUE MOGUL 3644-ET	USA 72073737						
TRUE-BLUE O-STYLE 3266-ET	USA 70925435						
TRUE-BLUE O-STYLE 3276-ET	USA 70925445						
TRUE-BLUE SHERAC 3188	USA 70925357						
TRUE-BLUE SHOTTLE 1524-ET	USA 62426998					C	
TRUE-BLUE SHOTTLE 1623-ET	USA 62746228						
TRUE-BLUE SIRIUS 3415	USA 71435846						
TRUE-BLUE SNOWMAN 3476-ET	USA 71435907						
TRUE-BLUE SNOWMAN 3500-ET	USA 71435931			C			
TRUE-BLUE SUDAN 3444	USA 71435875						
TRUE-BLUE SUDAN 3489	USA 71435920						
TRUE-BLUE SUDAN 3490-ET	USA 71435921						
TRUE-BLUE SUDAN 3565-ET	USA 71435996						
TRUE-BLUE SUPER 2799	USA 69781457						
TRUE-BLUE TRIGGER 2755-ET	USA 69781413						
TRUE-BLUE TRIGGER 2762-ET	USA 69781420					C	
TRUE-BLUE TRIGGER 3286	USA 70925455						
TRUE-BLUE TRIGGER 3296	USA 70925465					C	1
TRUE-BLUE ZELGADIS 3508-ET	USA 71435939						
TRUE-BLUE ZELGADIS 3515-ET	USA 71435946						
TRUE-BLUE ZELGADIS 3518-ET	USA 71435949						
TRUE-BLUE ZELGADIS 3523-ET	USA 71435954						
TRUE-BLUE ZELGADIS 3526-ET	USA 71435957						
TRUE-FLINT ATWOOD ROSE-ET	USA 70430035						
TRUE-NORTH SHAN POPPY-RED	USA 74565123						
TRULEA A-P 8151	USA 71157619						
TRULEA AIRNET 8836	840003012228404						
TRULEA AIRNET 8838-TW	840003012228406						
TRULEA ALERT 9322	840003124074723						
TRULEA ARMITAGE CAS 8209-ET	USA 71493747					C	
TRULEA ARMTGE CESI 8216-ET	USA 71493754						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRULEA BAHAMAS 8802-TW	840003012228370						
TRULEA BAHAMAS 8803-TW	840003012228371						
TRULEA BAHAMAS 8842	840003012228410		C		C		
TRULEA BAHAMAS 8844	840003012228412						3
TRULEA BANANA 8189	USA 71157657						
TRULEA BAYARD 8814	840003012228382						
TRULEA BAYARD 8815	840003012228383						
TRULEA BAYARD 8819	840003012228387						
TRULEA BAYARD 8831	840003012228399						
TRULEA BENTLEY 8801	840003012228369						
TRULEA BERING 8837	840003012228405						
TRULEA BOLTON 5921	USA 65444081						
TRULEA BOLTON 6241	USA 66045002						
TRULEA BONIFY 9235	840003124074636						
TRULEA BOWSER BARB 7619-ET	USA 70429992	C					
TRULEA BOWSER BESSY 7617-ET	USA 70429990						
TRULEA BRIZEN 8998	840003012228566		C			C	
TRULEA CAMERON 8530	USA 72132294						
TRULEA CAMERON 8531	USA 72132295						
TRULEA CAMERON 8539	USA 72132303						
TRULEA CHARLIE 8170	USA 71157638						
TRULEA CLARK CANDY 8096-ET	USA 71157564					C	
TRULEA CLARK COULD-ET	USA 72336905						
TRULEA CLARK CUTE-ET	USA 64010334						
TRULEA CORINTH 9074	840003013506052						
TRULEA DEMPSEY CALY 8154-ET	USA 71157622					C	1
TRULEA DEMPSEY CINDY-ET	840003012228525						1
TRULEA DEMPSEY CURL 8281-ET	USA 71493819						1
TRULEA DERLAND 8178	USA 71157646			C			3
TRULEA DERLAND 8183	USA 71157651						
TRULEA DERLAND 8188	USA 71157656						
TRULEA DESTROYER 8190	USA 71157658		C				
TRULEA DIE-HARD DEN 5928-ET	USA 65444088						
TRULEA DIE-HARD DIN 5927-ET	USA 65444087						
TRULEA DMPSY COOKIE 8279-ET	USA 71493817					C	
TRULEA EXCLUSIVE 8235	USA 71493773						
TRULEA G W ATWOOD CANDY-ET	840003013506079						
TRULEA GERVASE 8595	USA 72132359						
TRULEA GERVASE 8597	USA 72132361						
TRULEA GOLD CHIP 8236	USA 71493774						
TRULEA GOLD DRMS CHALK-ET	840003128667997						
TRULEA GOLDEN CLASSY PP-ET	840003124074623						
TRULEA GOLDEN COOL PP-ET	840003124074646					C	
TRULEA HEADLINER 9282	840003124074683						
TRULEA HEADLINER 9283	840003124074684						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRULEA HEADLINER 9286	840003124074687						
TRULEA HEADLINER 9289	840003124074690						
TRULEA HEADLINER 9291	840003124074692						
TRULEA HEADLINER 9295	840003124074696						
TRULEA JAY 9140	840003013506118						
TRULEA JOSE HANAH-5824-ET	USA 64627631				C		
TRULEA LEFTY 7779	USA 70569743						1
TRULEA LEGAL 8768	USA 72336898	C					1
TRULEA LOVERMAN NICOLETTE	840003131512256						
TRULEA LUCID 9254	840003124074655			C			
TRULEA LYNCH 5483	USA 63438650						
TRULEA MARVELOUS 8816	840003012228384						
TRULEA MASTER 9105	840003013506083						3
TRULEA MERIDIAN 8823	840003012228391						
TRULEA MOGUL 9284-TW	840003124074685						
TRULEA MOGUL 9294	840003124074695						
TRULEA MUIR 8841	840003012228409						
TRULEA NUMBER ONE 8825	840003012228393			C			
TRULEA NUMBER ONE 8847	840003012228415						
TRULEA OAK 9119	840003013506097						1
TRULEA OAK 9124	840003013506102						
TRULEA OAK 9201	840003124074602						
TRULEA OAK 9274	840003124074675					C	
TRULEA OAK 9281	840003124074682						
TRULEA OBSERVER 7957-ET	USA 70907811						
TRULEA OBSERVER MINE7888-ET	USA 70907742						
TRULEA PELLERAN 9115	840003013506093			C			
TRULEA PEPPER 9243	840003124074644						
TRULEA PETRONE TYRA-8519-ET	USA 72132283						
TRULEA PLANET 6355-ET	USA 66045116						
TRULEA POTENCY 8827	840003012228395						
TRULEA RADIUS 8184	USA 71157652						
TRULEA RADIUS 8185	USA 71157653					C	
TRULEA RADIUS 8199	USA 71157667					C	
TRULEA RIVIERA CRI-ET	USA 71451951						
TRULEA SAJAC 8808	840003012228376						
TRULEA SAJAC 8824	840003012228392						
TRULEA SAJAC 8864	840003012228432						
TRULEA SHADOW 8807	840003012228375						
TRULEA SILVER 9079	840003013506057						
TRULEA SOUP 8225	USA 71493763						
TRULEA SPIRIT 8830	840003012228398						3
TRULEA SPIRTE 7185	USA 69549815						
TRULEA STREAK 8156	USA 71157624						
TRULEA STREAK 8157	USA 71157625						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TRULEA SUDAN COMBO 8346-ET	USA 71702738						
TRULEA SUPER CHARITY7296-ET	USA 69777492						
TRULEA TOPSIDE 8809	840003012228377						
TRULEA TOPSIDE 8811	840003012228379						
TRULEA TOPSIDE 8833	840003012228401						
TRULEA TOPSIDE 8835	840003012228403						1
TRULEA TOPSIDE 8843	840003012228411						
TRULEA WHIRL 8834	840003012228402					C	
TRULEA WHIRL 8840	840003012228408		C			C	
TRULEA WINDBROOK CANNER-ET	USA 70907808					C	1
TRULEA WINDBROOK CHEER-ET	USA 70907763						1
TRULEA WINDBROOK CUTTER-ET	USA 70907813						
TRULEA WNDBRK CORAL-7939-ET	USA 70907793					C	1
TRULEA XAIRY 8982	840003012228550						
TRYNS LEWAJOHN SPARKIE IV	USA 141672036						
TTM ABILITY MITTEN	840003013072522					C	
TTM ANCHOR SPLENDIA	840003013072496						
TTM BALISTO MARBLE-ET	840003013072507						
TTM BOMBERO ADVENTURE	840003128162390						
TTM CASHMONEY LUXARY-ET	840003013072462						
TTM COMANCHE VALENTINE-ET	840003128162333						
TTM COMANCHE VANESSA-ET	840003128162335		C				
TTM COMANCHE VENUS-ET	840003128162332		C				
TTM CRYSTALSTAR AMBR 369-ET	USA 66985623						
TTM DAMARIS WALTZ-ET	840003128162350						
TTM DAMARIS WHIRLWIND-ET	840003128162351						
TTM DELTA 2739-ET	840003131904314					C	
TTM DELTA 2758-ET	840003131904333						
TTM DELTA 2847-ET	840003131904422						
TTM DELTA 2852-ET	840003131904427						
TTM DELTA 2863-ET	840003131904438						
TTM DELTA 2876-ET	840003131904451						
TTM DELTA 2882-ET	840003131904457						
TTM DELTA EDEN-ET	840003128162381						
TTM DELTA EMILY-ET	840003128162382						
TTM DEMAN 634	USA 143145392						
TTM DENVER 2921-ET	840003131904496						
TTM DENVER 2927-ET	840003131904502						
TTM DENVER 2929-ET	840003131904504						
TTM DENVER ADOBE-ET	840003132994026						
TTM DESTROY MAISY-ET	USA 68871585						1
TTM DOZER 2834-ET	840003131904409						
TTM DOZER 2841-ET	840003131904416						
TTM DRACO 15006 2713-ET	840003131904288						1
TTM DRACO 15006 2720-ET	840003131904295						1

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TTM DRACO 15006 2728-ET	840003131904303						
TTM DRACO 15006 2737-ET	840003131904312						
TTM DRACO 2881-ET	840003131904456						1
TTM DRACO 2936-ET	840003131904511						
TTM DRACO 2986-ET	840003131904561						1
TTM EXPLODE LINDSEY	USA 69892581						
TTM HALOGEN ALLUMINARE-ET	840003013072486						
TTM HALOGEN APRIL-ET	840003013072485						
TTM JACEY RHONDA-ET	840003013072473						
TTM JOSUPER 2593-ET	840003131904168					C	
TTM JOSUPER 2602-ET	840003131904177					C	
TTM JOSUPER 2611-ET	840003131904186					C	
TTM JOSUPER 2653-ET	840003131904228						
TTM JOSUPER 2658-ET	840003131904233						
TTM JOSUPER ECSTATIC	840003128162373						
TTM JOSUPER MAZDA	840003128162372					C	
TTM KINGBOY BETHESDA	840003128162343						
TTM KINGBOY MERCEDES-ET	840003128162377					C	
TTM KINGBOY MULBERRY-ET	840003128162374					C	
TTM LARA MCCUTCHEN-ET	USA 71069569						
TTM LEIANNA MCCUTCHEN-ET	USA 71069572						
TTM LIBERTY MCCUTCHEN-ET	USA 71069567						
TTM LILA MCCUTCHEN-ET	USA 71069571						
TTM LIZA MCCUTCHEN-ET	USA 71069568						
TTM MAIN EVENT AMAZING-ET	840003132993724						
TTM MAIN EVENT AUSTRALIA-ET	840003128162349						
TTM MCCUTCHEN LAUREL-ET	840003013072453						
TTM MEGASIRE WIGGLE	840003128162391						
TTM MERCHANDISE LAW	USA 73445959						1
TTM MOGUL BAYLEE-ET	USA 72650045						
TTM MOGUL BUGATTI-ET	USA 142409703						
TTM MONTROSS 7046-ET	840003126667679						
TTM MONTROSS WREN	840003128162401						
TTM N UNO LOTTERY-ET	840003013072437						
TTM N UNO WONDERLAND-ET	840003013072463						
TTM NUMERO UNO LARA-ET	USA 72352545						
TTM O-MAN LORRAINE	USA 66499601			C			
TTM OCEAN WAVE-P-ET	840003128162361						1
TTM PULSAR ABBY-ET	840003128162392						
TTM RC AFTERSHOCK LUCA-ET	USA 69447111					C	
TTM RC GOLDWYN LATONA-ET	USA 69447127						1
TTM RC GOLDWYN LEONTINA-ET	USA 69447126						1
TTM RC GOLDWYN LIBERTAS-ET	USA 69447125						1
TTM RC SUPER LACROIX-ET	USA 69447116						
TTM RC SUPER LANVIN-ET	USA 69447117						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TTM RC SUPER LEPORE-ET	USA 69447115						
TTM RUBICON ALABAMA-ET	840003132993965						
TTM RUBICON ARIZONA-ET	840003132993968						
TTM SHUT-OUT ANNALISE	840003128162340						
TTM SHUT-OUT MADYSON	840003128162342					C	
TTM SILVER 2617-ET	840003131904192					C	
TTM SILVER BANDANA-ET	840003132993884						
TTM SUPERSHOT 2828-ET	840003131904403					C	
TTM SUPERSHOT 2833-ET	840003131904408						
TTM SUPERSHOT 2842-ET	840003131904417						
TTM SUPERSHOT 2908-ET	840003131904483						
TTM SUPERSHOT 2962-ET	840003131904537						
TTM SUPERSHOT MACKENZIE	840003128162360					C	
TTM SUPERSIRE WISTERIA	840003013072458						
TTM SUPERSIRE WONDERFUL	840003013072465						
TTM TANGO ARGENTINA-ET	USA 73209288						
TTM WILFULL NUMERO UNO-ET	USA 72817662						
TTM WILLOW NUMERO UNO-ET	USA 72817665						
TTM WINTER NUMERO UNO-ET	USA 72817658						
TTM WINTERY NUMERO UNO-ET	USA 72817661						
TTM WONDERLAND UNO-ET	USA 72817659						
TTM YODER DAPPER	840003128162383						
TU-INFINITI 1ST ISRAEL-ET	840003131635277						
TU-INFINITI N UNO 3494-ET	USA 71506112						
TU-INFINITI N UNO 3495-ET	USA 71506113						
TUCKAPOINT REBECA 919	USA 69841976						
TUCKAPOINT REBEL 910	USA 69841967						
TUCKAPOINT SHELLY 877	USA 65314286					C	
TUCKAPOINT ULTRAVIOLET 904	USA 69841961						
TUCKAPOINT WILEY 918	USA 69841975						
TUI 406 COLT P CINDERELLA	USA 71069506						
TUI ALTAROSS MUFFIN-TW	USA 69093576			C			
TUI ANNAMAY MOGUL	USA 71069570	C					
TUI BELL BOOKEM	USA 69093633						1
TUI BELLAIR BOWSER	USA 69093617						3
TUI BLESSING GOLD CHIP	USA 71069486						
TUI BLUEBELL LARGE	USA 71069520						3
TUI CADETTE SAMMY-P	USA 72817654						
TUI CADMIUM SHAMROCK-ET	USA 71069493						
TUI CAELEY OLEGANT-ET	USA 71069557						
TUI CAITLYN SHAMROCK-ET	USA 71069498						
TUI CALI A-J CORRINA-RED-ET	USA 143295538						
TUI CALI A-J CORRINE-RED-ET	USA 143295547						
TUI CALIDA EFFECT-P-RED-ET	USA 72817649						
TUI CALIFORNIA DOGMA	USA 72817725						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TUI CALINA BURST-RED-ET	USA 71069541						1
TUI CALISTA PREDESTINE	USA 72817670						3
TUI CALLEY LEDLEY-ET	USA 71069513						
TUI CAMELIAN EFFECT-RED-ET	USA 72817636						
TUI CAMOYA DOLO-P	USA 72817638						
TUI CANADA COLT-TW-ET	USA 71069502						
TUI CANALEE RELIEF-P-ET	USA 72817631						
TUI CANDELL GOLD CHIP-ET	USA 71069479						
TUI CANDI LAD P-RED-ET	USA 71069550						1
TUI CARA SHAMROCK-ET	USA 71069495						
TUI CARABELLE ATWOOD-ET	USA 69093596						
TUI CAREFUL EFFECT-P-RED-ET	USA 72817652						
TUI CARINA COLT-ET	USA 71069500						
TUI CARINA MOGUL-ET	USA 71069549						
TUI CARLA LAD-ET	USA 71069545						
TUI CARLIN MOGUL-ET	USA 71069547						
TUI CARLYN MOGUL	USA 71069540						
TUI CARMEL GOLD CHIP-ET	USA 71069489						
TUI CARMELITA MOGUL	USA 71069551						
TUI CARMi UNO-ET	USA 71069530						
TUI CAROL PRENTICE	USA 69093608						
TUI CAROLYN AARON	USA 69093598						
TUI CATE PARKER-P-ET	USA 72817626						
TUI CATHLEEN CAMERON-ET	USA 71069507						
TUI CATHY MOGUL-ET	USA 71069543						
TUI CAYLA PLANET	USA 68853202						
TUI CAYLEAH UNO-ET	USA 71069537						
TUI CAYLEE ROBUST	USA 69093632						
TUI CAYLIE EPIC-ET	USA 71069524						
TUI CAYLYNN SHAMROCK-ET	USA 71069499						
TUI CECILIA MOGUL-ET	USA 71069542						
TUI CELINA LAD-RED-ET	USA 71069539						
TUI CESIA EFFECT-P-ET	USA 72817647						
TUI CHAMP P 3096-ET	840003013892123						1
TUI CHAMP-PRC 3322PO-ET	840003126076225						1
TUI CHAMP-PRC 3324PO-ET	840003126076227						1
TUI CHARLA COLT-TW-ET	USA 71069503						
TUI CHARLOTTE AARON-RED	USA 69093595						
TUI CHECKER GOLD CHIP-ET	USA 71069512						
TUI CHEERFULL-ET	USA 69093626						
TUI CHERELLE EPIC	USA 71069525						
TUI CHERILYN COLT-ET	USA 71069504						
TUI CHERISH SHAMROCK-ET	USA 71069494						
TUI CHERRY MOGUL-ET	USA 71069552						
TUI CHILLI UNO-ET	USA 71069532						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TUI CHOC CAKE MAGENTA-RED	USA 72817630		C				
TUI CHOCOLATE CHIP-ET	USA 71069480						
TUI CIARA LEDLEY-ET	USA 71069482						
TUI CINDERELLA GOLDEN-P-RED	USA 74583773						
TUI CINDY COLT P	USA 71069484						
TUI CINDY MOGUL	USA 71069561						
TUI CLARA SHAMROCK-ET	USA 71069497						
TUI CLARABE BOWSER	USA 69093614						
TUI CLARABELLE SPEARMINT	USA 69093544		C			C	
TUI CLARAMAY LEDLEY-ET	USA 71069483						
TUI CLARIBEL SHAMROCK-ET	USA 71069481						
TUI CLARICE MAYFIELD-ET	USA 71069565						
TUI COOKIE AARON	USA 69093602						
TUI COOKIE SHAMROCK-ET	USA 71069492						
TUI CORA MOGUL-ET	USA 71069546						
TUI CORAL RELIEF	USA 72817657						
TUI CORDELI DOLO	USA 72817706						
TUI CORDIE UNO-ET	USA 71069535						
TUI CORISSA ATWOOD-ET	USA 69093592						
TUI COURTNEY BURST-RED-ET	USA 71069544						1
TUI CREATIVE EFFECT-RED-ET	USA 72817635						
TUI CRYSTAL CAMERON-ET	USA 71069510						
TUI CUPCAKE DOMAIN-ET	USA 69093590						
TUI CUPID COLT-ET	USA 71069505						
TUI CURE CAMERON-ET	USA 71069508						
TUI CUTIE COLT-RED-ET	USA 71069496						
TUI CZARINA GOLD CHIP-ET	USA 71069491						
TUI DELIGHT APPLE	USA 71069478						1
TUI ELLA CHAMP PP-ET	USA 72817720						1
TUI FANNY AL	USA 69093609						
TUI FLAIRA SAMMY	USA 72817655						
TUI JADEN DETOUR-RED-TW	USA 69093622						
TUI JAZZI JAM MASTER	USA 71069548						
TUI MADELINE RELIEF-P	USA 72817648						
TUI MARILYN SHAMROCK-ET	USA 71069501						
TUI MARYANN MANOMAN-ET	USA 69093562						
TUI MAZY ROBUST	USA 71069477						
TUI MONICA MOGUL	USA 71069560						
TUI OHARE PEPPIN-ET	USA 72967136						
TUI PACIFIC OCEAN P-ET	USA 74583795						1
TUI PAISLEY OHIO STYLE P-ET	USA 72817681						
TUI PALENA SUPER SIRE-P	USA 72817640						
TUI PANCAKE CHAMP-RC-ET	USA 72817723						1
TUI PANDORA POWERBALL-PP-ET	USA 74583789						
TUI PANSY BOWSER	USA 69093618						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TUI PAPRIKA RELIEF-ET	USA 72817642						
TUI PARIS OHIO STYLE P	USA 72817700						
TUI PATIENC COLT 45-ET	USA 72817674						
TUI PEACE OHIO STYLE-ET	USA 72817669						
TUI PEARL SAMMY-P-ET	USA 72817644						
TUI PENELO-P-ET	USA 72817651						
TUI PEPERMINT EFFECT-ET	USA 72817646						
TUI PEPPY CHAMP-P-ET	USA 74583776						1
TUI PEPSI SUPERSIRE-ET	USA 72817639						
TUI PERFECT-P-ET	USA 72817650						
TUI PET P DOGMA-ET	USA 72817695						
TUI PEZ SAMMY-P-ET	USA 72817645						
TUI PIZZA MOGUL	USA 71069573						
TUI PRECIOUS-P-ET	USA 74583785						
TUI PRETTY COLT 45-ET	USA 72817671						
TUI PRINCESS AL	USA 69093627						
TUI PROMISE POWERBALL-P-ET	USA 74583802						
TUI PROTO CAL P RC-ET	USA 72817710						
TUI PURITY P DOGMA-ET	USA 72817694						
TUI SHAMROCK MANDY-ET	USA 141826079						
TUI SOPHIA MOGUL	USA 71069556						
TUI TABITHA MCCUTCHEN-ET	USA 71069566						
TUI TAMIRA MCCUTCHEN-ET	USA 71069562						
TUI TANISHA EARNHART-P	USA 72817637						
TUI TANNA JAX-RED-ET	USA 72817718						
TUI TARYN DOLO-TW	USA 72817714						1
TUI TASHA JAX-P-ET	USA 72817717						
TUI TASSEL SANCHEZ	USA 69093560						
TUI TAYLOR EPIC	USA 71069529						
TUI TEATHER DOMAIN	USA 69093615						
TUI TEETEE EARNHART-P	USA 72817634						
TUI TERRBY AARON	USA 69093605						
TUI TORRA JAX-RED-ET	USA 72817719						
TUI TRISHA ALAN	USA 69093624						
TUI TRUSHA BOLTON	USA 64980024						
TULLANDO BOLTON JESTER	USA 63214662						
TULLANDO CLARK JILL-ET	USA 69703477						
TULLANDO JEEVES LIVIE	USA 71842635						
TULLANDO MANDEL REBEL-ET	USA 15802147						
TULLANDO OMAN PRIDE	USA 62337978			C			
TULLANDO PRONTO JEWELS	USA 64777248						
TULLANDO SANFLAN LAVA	USA 71842636						
TULLY AL CECE	USA 141497215						
TULLY AL JOY	USA 141497185						
TULLY ATWOOD WANDA	USA 142220054						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TULLY BUCKEYE KEELEY	USA 141299394						
TULLY CALVIN KORIN	USA 141674467						3
TULLY DALT JOLLY	USA 141299376						
TULLY DEFENDER DINA	USA 143051079						
TULLY DONATELLO ELLEN	USA 142917927			C			
TULLY GOLD CHIP RUTHANN	USA 142253094		C				
TULLY GUTHRIE KRISPY	USA 142493951						
TULLY HEADLINER EXCEL	USA 142622829						
TULLY MILLION KIPON	USA 141608015						
TULLY MILLION ROCK-ON	USA 141497260		C				
TULLY MOGUL ADELLE	USA 142702879						
TULLY MOGUL CLARA-TW	USA 143051051						
TULLY MOGUL CLOVER-TW	USA 143051060						
TULLY MOGUL DOREEN	USA 142220063						
TULLY MOGUL ERICA	USA 142503108						
TULLY MOGUL HONEY BEAR	USA 142990702						
TULLY MOGUL RUBYLEA	USA 142799860						
TULLY MOGUL SNOW QUEEN	USA 142220090						
TULLY MORPH PHYLLIS	USA 141209926						
TULLY MUNITION PATSY	USA 142917897						
TULLY MUNITION WINDSTORM	USA 142923854						
TULLY MURRAY DOTTIE	USA 141594734						
TULLY NO ONE PEPPERONI	USA 141566696						
TULLY PALERMO INGA	USA 141608024						
TULLY PEOTI CLARA	USA 142604694						
TULLY PETRONE DAWN	USA 142990690						
TULLY PLATINUM DEBBY	USA 142990711			C			
TULLY PRED JULIET	USA 143051529						3
TULLY SHANDRO CHANCE	USA 142917918						
TULLY SHANDRO KAY	USA 142990720					C	
TULLY SHANDRO KIKI	USA 142990739						
TULLY SHAZAM PANSY	USA 142698486						
TULLY SOCRATES EMMA	USA 139648904						
TULLY SS EXCEL	USA 142917909						
TULLY ST DECEIVER 71012	840003123614801						
TULLY ST GEN DECEIVER 71068	840003123614857						
TULLY ST SUPERSIRE 70869	840003123614658						
TULLY ST SUPERSIRE 70991	840003123614780						
TULLY SUPERSIRE BUN	USA 142994667						
TULLY SUPERSIRE LYDIA	USA 142990681						
TULLY TANGE POPTART	USA 142917888						
TULLY TS BUNDLE	USA 139106347						
TULLY TS ELLY	USA 138811312						
TULLY TS SNOW WHITE	USA 138108355						
TUMBLEWEED ATWOOD KAILUA	840003011150736						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TUMBLEWEED DECLAN LAUGHTER	840003011150721						
TUMBLEWEED GOLDWYN LEEYA-ET	840003008116160						3
TUMBLEWEED GOLDWYN LEEZA-ET	840003008116161						3
TUMBLEWEED GUTHRIE FIJI-ET	840003008116186						
TUMBLEWEED ROY KOALA-ET	840003001895706						
TUMBLING-RUN R LISA-RED-ET	USA 141159276						
TUNNELL PLANET VENUS	USA 66590471						
TURN-IT-UP HOPES DIAMOND	USA 62531428						
TURNPIKE-VIEW AMERICANA ROE	USA 136586096						
TURNPIKE-VIEW BRIELLE-ET	USA 64806860						
TURNPIKE-VIEW EDI DELRAY	USA 132514879						
TURNPIKE-VIEW GOLDS ZOOM-ET	USA 72457645					C	
TURNPIKE-VIEW HAILEY-ET	USA 68766333						
TURNPIKE-VIEW KEMVIEW DELLA	USA 128757240						
TURNPIKE-VIEW RUBEN JOYFUL	USA 136585693						
TURNPIKE-VIEW STORM NENA-ET	USA 64806832						1
TUSC-VU DANCER RAE-VRC-RED	USA 72189140						
TUSC-VU SHOTTLE GLITTER	USA 72189137						1
TUYTEL ATW BARBRA 9-ET	840003012573461						
TUYTEL DOORMAN LANA-ET	CAN 108436088					C	
TWENDELL ATWOD GORGONZOLA	USA 73928471						
TWENDELL POTHOLE GALLA	USA 72538366						
TWI-LA-B BOLTON MIA-ET	USA 60090710						
TWI-LA-B BOWSER MANDY	USA 69314735						
TWI-LA-B MCCUTCHEN MATEA-ET	USA 69314740						
TWI-LA-B MCCUTCHEN MIMI	USA 69314741						
TWI-LA-B OBSRVER MARRIAH-ET	USA 69314736						
TWIN SHIERA	NLD 932869256						
TWIN-B-DAIRY ANGEL-ET	USA 73222247						
TWIN-B-DAIRY ATWOOD 5028	USA 73222137						
TWIN-B-DAIRY BELLA-ET	USA 66879924						
TWIN-B-DAIRY CASSINO COOKIE	USA 66879838						
TWIN-B-DAIRY CLARK BETH-ET	USA 66879968			C			
TWIN-B-DAIRY DOORMAN JESSIE	840003132534905						
TWIN-B-DAIRY ELECTRA-ET	USA 61741716						
TWIN-B-DAIRY FREDDIE REBA	USA 66879821						
TWIN-B-DAIRY KAIN 5115	USA 73222224						
TWIN-B-DAIRY KINGBOY 5104	USA 73222213						
TWIN-B-DAIRY MCCUTCHEN 5060	USA 73222169		C				
TWIN-B-DAIRY MCCUTCHEN 5095	USA 73222204						
TWIN-B-DAIRY MEG-MAN CHANEL	USA 64009209	C					
TWIN-B-DAIRY MINNIE	USA 64009170						
TWIN-B-DAIRY MOGUL 5195	840003132534916						
TWIN-BIRCH GREATEST C 9854	USA 70079829						
TWIN-BIRCH KOOL BEUHLAH 893	USA 72108981						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWIN-BIRCH NIFTY SOFIA 7653	USA 64771729						
TWIN-CITIES-VUE MGUL RAPPER	USA 71922855						
TWIN-CITIES-VUE SSIR BUSTED	USA 71923118		C				
TWIN-CRIK EXPLODE ELLY-ET	USA 140773734						
TWIN-CRIK EXPLODE EXCEED-ET	USA 141153403						
TWIN-EAGLE SPRING SKY	840003132716305						
TWIN-EAGLE STEWART JEMSTONE	USA 72570868						
TWIN-ELMS-VU DANCER-RED-ET	USA 69618350						
TWIN-ELMS-VU DASHER RAE-ET	USA 69618351						
TWIN-GRO S-ECHO C BESSA	USA 143324706						
TWIN-MANOR AFTRSHCK GISELLE	USA 64624178					C	
TWIN-MANOR ALEX RILEY-ET	USA 64624179						
TWIN-MANOR ALEXNDR RAVEN-ET	USA 72438820						1
TWIN-MANOR PASETTER PETUNIA	USA 72438821					C	
TWIN-MANOR SNOW PEARL-ET	USA 62104831					C	
TWIN-MANOR SNOW PIE-ET	USA 62104833						
TWIN-MANOR TIME WHISPER	USA 64624176					C	
TWIN-MILL ALLHARD 9208	USA 143328559						
TWIN-MILL B P 9182	USA 143220262						
TWIN-MILL B P 9195	USA 143328483						
TWIN-MILL B P 9198	USA 143328504						
TWIN-MILL CUEBALL PP 9230	840003132927239						
TWIN-MILL CUEBALL PP 9241	840003132927250						
TWIN-MILL CUEBALL PP 9242	840003132927251						
TWIN-MILL CUEBALL PP 9266	840003134376558						
TWIN-MILL DUAL PP 9191	USA 143328447						
TWIN-MILL DUAL PP 9207	USA 143328540						
TWIN-MILL MARS 9209	USA 143542582						
TWIN-MILL MIDO P 9243	840003132927252						
TWIN-MILL MIDO P 9245	840003132927254						
TWIN-MILL MIDO P 9248	840003132927257						
TWIN-MILL MIDO P 9258	840003134376550						
TWIN-MILL NEEDLE P 9178	USA 143202532						
TWIN-MILL NEEDLE P 9179	USA 143202541						
TWIN-MILL NEEDLE P 9180	USA 143202550						
TWIN-MILL NEEDLE P 9181	USA 143202569						
TWIN-MILL NEEDLE P 9183	USA 143220271						
TWIN-MILL NEEDLE P 9185	USA 143220280						
TWIN-MILL NEEDLE P 9186	USA 143220299			C			
TWIN-MILL NEEDLE P 9188	USA 143220310						
TWIN-MILL NEEDLE P 9192	USA 143328456						
TWIN-MILL NEEDLE P 9193	USA 143328465						
TWIN-MILL NEEDLE P 9194	USA 143328474						
TWIN-MILL NEEDLE P 9231	840003132927240						
TWIN-MILL NEEDLE P 9246	840003132927255						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWIN-MILL NEEDLE P 9254	840003132927263						
TWIN-MILL TERRA 9253	840003132927262						
TWIN-MILL X P 9196	USA 143328492						
TWIN-PRAIRIE WILDMAN WILLOW	USA 66185285						
TWIN-RIVER HOT TAMALE-RED	USA 71997479						3
TWIN-SPRUCE ACTIVE LAKYA	USA 66545425						
TWIN-SPRUCE ARMITAGE CIERA	USA 70184281						
TWIN-SPRUCE BABE	USA 70184346						
TWIN-SPRUCE BEAU CARD-ET	USA 70184287						
TWIN-SPRUCE BELLA-TW	USA 73714034						
TWIN-SPRUCE BESTY-TW	USA 73714035						
TWIN-SPRUCE BISCUIT	USA 70184313						
TWIN-SPRUCE BOOKEM DORY	USA 70184244						
TWIN-SPRUCE BRIANNA	USA 73714070						
TWIN-SPRUCE BT CARLEENA-ETS	USA 66545451						
TWIN-SPRUCE BT CARLYSLE-ETS	USA 66545454						
TWIN-SPRUCE BTME CARINE-ETS	USA 66545448						
TWIN-SPRUCE BTME CARNET-ETS	USA 66545447						
TWIN-SPRUCE BUTTERCUP	USA 73714032						
TWIN-SPRUCE CADDIN-ET	USA 73713999						
TWIN-SPRUCE CADE	USA 70184382						1
TWIN-SPRUCE CADEE	USA 70184309						
TWIN-SPRUCE CAHYA-ET	USA 70184331						
TWIN-SPRUCE CAIA-TW	USA 70184311			C			
TWIN-SPRUCE CALA-TW	USA 70184312						
TWIN-SPRUCE CALCI	USA 73713958						
TWIN-SPRUCE CALICO	USA 70184315						
TWIN-SPRUCE CALKI-ET	USA 73714086						
TWIN-SPRUCE CALYPSO	USA 70184314						
TWIN-SPRUCE CAM	USA 70184319						
TWIN-SPRUCE CAMARA-ET	USA 70184335						
TWIN-SPRUCE CAMPFIRE	USA 73714061						
TWIN-SPRUCE CANDICE-ET	USA 73714069						
TWIN-SPRUCE CANDIHARE	USA 73714030						
TWIN-SPRUCE CANDILARIA	USA 73713961						
TWIN-SPRUCE CANLY-ET	USA 73713964						
TWIN-SPRUCE CANSLEY-ET	USA 73714010						
TWIN-SPRUCE CAPI	USA 70184347						
TWIN-SPRUCE CAPPY-ET	USA 70184338						
TWIN-SPRUCE CARLIN	USA 73714033						
TWIN-SPRUCE CARMEL-ET	USA 70184339						
TWIN-SPRUCE CAROLINA-ET	USA 73714013						
TWIN-SPRUCE CAROLLY-ET	USA 73713985						
TWIN-SPRUCE CAROSAL-ET	USA 73714085						
TWIN-SPRUCE CARRIE-ET	USA 70184340						



**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWIN-SPRUCE CARRY	USA 70184407						
TWIN-SPRUCE CAS-ET	USA 70184412			C			
TWIN-SPRUCE CASCADE	USA 70184321						
TWIN-SPRUCE CASHLIN-ET	USA 70184320						
TWIN-SPRUCE CASS-ET	USA 70184391						3
TWIN-SPRUCE CASSIA-ET	USA 70184341						
TWIN-SPRUCE CASTER-ET	USA 70184376						
TWIN-SPRUCE CASTTY	USA 73713989						
TWIN-SPRUCE CATTIE	USA 70184362						
TWIN-SPRUCE CAYLGHE	USA 73713959		C				
TWIN-SPRUCE CECILA	USA 73714068					C	
TWIN-SPRUCE CHAKIRA	USA 70184322						
TWIN-SPRUCE CHANA-ET	USA 70184324						
TWIN-SPRUCE CHANEL	USA 73714074						
TWIN-SPRUCE CHANTAL	USA 73714071						
TWIN-SPRUCE CHARLESETA	USA 73713988						
TWIN-SPRUCE CHARM	USA 73714051						
TWIN-SPRUCE CHICKY	USA 73713998						
TWIN-SPRUCE CHIKU-ET	USA 70184325						
TWIN-SPRUCE CHILI	USA 70184354						
TWIN-SPRUCE CHIME	USA 73713957						
TWIN-SPRUCE CHIPO-ET	USA 70184326						
TWIN-SPRUCE CHLOE-ET	USA 70184396						
TWIN-SPRUCE CHONDRA	USA 73713950						
TWIN-SPRUCE CHOZY	USA 70184408						
TWIN-SPRUCE CIANA-ET	USA 73713996						
TWIN-SPRUCE CICADA-ET	USA 70184328						
TWIN-SPRUCE CILO	USA 70184330						
TWIN-SPRUCE CINDERELLA	USA 73714073						
TWIN-SPRUCE CINNIMINNI	USA 73714036						
TWIN-SPRUCE CINNY	USA 73713952						
TWIN-SPRUCE CLASSIE-ET	USA 73714067						
TWIN-SPRUCE CLASSY	USA 70184357						
TWIN-SPRUCE CLEO	USA 73714043						
TWIN-SPRUCE CLOUD-ET	USA 73714078						
TWIN-SPRUCE CLOVER-ET	USA 70184350						
TWIN-SPRUCE CM BAMBI	USA 70184306						
TWIN-SPRUCE CM CATTY	USA 70184304						
TWIN-SPRUCE COCO	USA 73714046						
TWIN-SPRUCE COCOA	USA 73714008						
TWIN-SPRUCE COLAA	USA 70184381						
TWIN-SPRUCE COLBY	USA 70184310						
TWIN-SPRUCE COLON	USA 73714064						
TWIN-SPRUCE CORA	USA 73714037						
TWIN-SPRUCE CORAL-ET	USA 70184349						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWIN-SPRUCE CORRINE	USA 73714072						
TWIN-SPRUCE COSETTE	USA 73713953						
TWIN-SPRUCE COURTNY-ET	USA 73714016						
TWIN-SPRUCE COZER-ET	USA 73714018						
TWIN-SPRUCE CRAYOLA-ET	USA 70184371						
TWIN-SPRUCE CRINGLE-ET	USA 73714083						
TWIN-SPRUCE CUDDLES	USA 70184370						
TWIN-SPRUCE CUJO	USA 70184365						
TWIN-SPRUCE CUPCAKE	USA 70184369			C			
TWIN-SPRUCE CUTIE	USA 73714080						
TWIN-SPRUCE CUZY-ET	USA 70184359						
TWIN-SPRUCE CY	USA 73713968		C				
TWIN-SPRUCE CYANE-ET	USA 70184361						
TWIN-SPRUCE CYNAMIN-ET	USA 70184366						
TWIN-SPRUCE DINA	USA 70184378						
TWIN-SPRUCE DORCY CHESSA-ET	USA 70184216						
TWIN-SPRUCE GCP CAREFREE-ET	USA 70184280						
TWIN-SPRUCE GERARD BALLY	USA 70184269						
TWIN-SPRUCE GOLD BAILEY-ET	USA 64964568						1
TWIN-SPRUCE GOLD BRANDI-ET	USA 64964569						1
TWIN-SPRUCE GOLDCHIP CIA-ET	USA 70184285						
TWIN-SPRUCE GOLDCHP CANS-ET	USA 70184286						
TWIN-SPRUCE GOLDCHP COST-ET	USA 70184284						
TWIN-SPRUCE IOTA CARLATA-ET	USA 70184303						
TWIN-SPRUCE JEEVS LONDON-ET	USA 66545414						
TWIN-SPRUCE LAKEISHA	USA 73714029						
TWIN-SPRUCE LIZA	USA 70184414						
TWIN-SPRUCE MABEL	USA 70184401						
TWIN-SPRUCE MARCY	USA 73714063						
TWIN-SPRUCE MARLA	USA 73714081						
TWIN-SPRUCE MERIDITH	USA 73714014						
TWIN-SPRUCE MISSY	USA 73714048			C			
TWIN-SPRUCE MONT CARRY	USA 73714050						
TWIN-SPRUCE MS BABE-ET	USA 70184404						
TWIN-SPRUCE MS CASCADE	USA 73714006						
TWIN-SPRUCE MS CECILA	USA 73714045						
TWIN-SPRUCE MS COLA	USA 73714040						
TWIN-SPRUCE O-STYLE COLOR	USA 70184293						
TWIN-SPRUCE OMAN CAILYN-ETS	USA 66545440						
TWIN-SPRUCE PLNT CHELSEY-ET	USA 66545435						
TWIN-SPRUCE RANNY	USA 70184329						
TWIN-SPRUCE RAZZY	USA 73713967						
TWIN-SPRUCE RENEGADE	USA 70184375						
TWIN-SPRUCE ROBUST CANI	USA 70184292						
TWIN-SPRUCE RUDOLPH	USA 73714049						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWIN-SPRUCE SHAMROCK RADIO	USA 70184252						
TWIN-SPRUCE SHERAC FLY	USA 70184265						
TWIN-SPRUCE SHO CHARISMA-ET	USA 66545400					C	
TWIN-SPRUCE SHO CINNAMON-ET	USA 66545403						
TWIN-SPRUCE WINDBROOK LILLY	USA 70184266						
TWIN-VAL DAMION GRAND	USA 69405923						1
TWIN-VAL DURHAM MARNETT	USA 135748077						
TWIN-VAL DURHAM SALLY	USA 135748068						
TWIN-VAL DURHAM VA-VOOM-ET	USA 139334540					C	
TWIN-VAL S-STORM TISHA	USA 135714719						
TWINING ATWOOD MARIANNE-ET	USA 141762104						
TWINKLE-HILL CB MELODY 1113	840003129317185						
TWINKLE-HILL CGWRONG ROSY	840003129317139						
TWINKLE-HILL M JOYOUS 1118	840003129317190						
TWIST EBONY	NLD 535767560						1
TWIST-VIEW ADV VIOLET-ET	840003012660629						
TWIST-VIEW ARMANI FRANCESCA	840003012660635						
TWIST-VIEW ARMANI GETSUM-ET	840003012660637						
TWIST-VIEW ARMANI VENUS	840003012660634						1
TWIST-VIEW DSTRY GLIMMER-ET	840003012660627						
TWIST-VIEW GOTSUM-RED-ET	840003012660638						
TWO-COUNTY BRAX PRIS	USA 72322709						
TWO-COUNTY DORCY KOLLEEN	USA 74093512						
TWO-COUNTY MOG KRYSTAL	USA 72322719						
TWO-COUNTY MOGUL ENYA	USA 72322741						
TWO-COUNTY S PRINCESS	USA 71265950					C	
TWO-COUNTY SHOT ALICE	USA 71265930					C	
TWO-COUNTY SUPSIRE RHONDA	USA 72322718						
TWO-FINE BOND DORY-ET	USA 61217162						
TWO-FINE FORBIDEN DODIE-ET	USA 60796610						
TWO-ROCK 9144 5384	USA 73320860						
TWO-ROCK 9164 5424	USA 74013352						
TWO-ROCK 9164 5438	USA 74013366						
TWO-ROCK 9164 5460	USA 74013388						
TWO-ROCK 9164 5464	USA 74013392						
TWO-ROCK 9168 5554	840003129132519						
TWO-ROCK 9168 5583	840003129132548			C			
TWO-ROCK 9173 5566	840003129132531						
TWO-ROCK 9173 5572	840003129132537					C	
TWO-ROCK 9173 5575	840003129132540						
TWO-ROCK 9173 5590	840003129132555						
TWO-ROCK ANCHOR 5544	840003129132509						
TWO-ROCK ANCHOR 5559	840003129132524						
TWO-ROCK BAXTER 5512	840003129132477						
TWO-ROCK CHELIOS 5365	USA 73320841						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWO-ROCK CORVETTE 5420	USA 74013348						
TWO-ROCK DEFENDER 5418	USA 74013346						
TWO-ROCK DEFENDER 5419	USA 74013347						
TWO-ROCK DEFENDER 5447	USA 74013375					C	
TWO-ROCK DEFENDER 5463	USA 74013391						
TWO-ROCK DEFENDER 5591	840003129132556						
TWO-ROCK DIAMOND 5383	USA 73320859			C			
TWO-ROCK DIAMOND 5396	USA 73320872						
TWO-ROCK DONATELLO 5585	840003129132550						
TWO-ROCK GUTHRIE 5363	USA 73320839						
TWO-ROCK GUTHRIE 5401	USA 74013329						1
TWO-ROCK IOTA 5370	USA 73320846						
TWO-ROCK IOTA 5372	USA 73320848						
TWO-ROCK IOTA 5502	840003129132467						
TWO-ROCK MAYFIELD 5389	USA 73320865						
TWO-ROCK MAYFIELD 5455	USA 74013383						
TWO-ROCK MCCUTCHEN 5371	USA 73320847						
TWO-ROCK MCCUTCHEN 5561	840003129132526						
TWO-ROCK MIDNIGHT 5474-TW	USA 74013402						
TWO-ROCK MIDNIGHT 5475-TW	USA 74013403						
TWO-ROCK MIDNIGHT 5515	840003129132480						
TWO-ROCK MIDNIGHT 5532	840003129132497						
TWO-ROCK MIDWEST 5377	USA 73320853						
TWO-ROCK MOGUL 5547	840003129132512						
TWO-ROCK MOGUL 5555	840003129132520						
TWO-ROCK MOGUL 5560	840003129132525						
TWO-ROCK NEHI 5457	USA 74013385						
TWO-ROCK NOMINEE 5533	840003129132498						
TWO-ROCK POLICE 5492	USA 74013420						
TWO-ROCK PREDESTINE 5427	USA 74013355						
TWO-ROCK PREDESTINE 5466	USA 74013394						3
TWO-ROCK RAGER 5679-RED	840003133445094						
TWO-ROCK SALOON 5362	USA 73320838						
TWO-ROCK SHANDRO 5458	USA 74013386					C	
TWO-ROCK SKODA 5411	USA 74013339						
TWO-ROCK SUPERSIRE 5369	USA 73320845						
TWO-ROCK SUPERSIRE 5395	USA 73320871						
TWO-ROCK SUPERSIRE 5433	USA 74013361						
TWO-ROCK SUPERSIRE 5495	USA 74013423						
TWO-ROCK SUPERSIRE 5507	840003129132472						
TWO-ROCK SUPERSIRE 5518	840003129132483						
TWO-ROCK SUPERSIRE 5519	840003129132484						
TWO-ROCK SUPERSIRE 5580	840003129132545						
TWO-ROCK SUPERSIRE 5581	840003129132546						
TWO-ROCK SUPERSIRE 5595	840003129132560						

**Cows' status 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**

Name	Registration	HH1	HH2	HH3	HH4	HH5	HCD
TWO-ROCK SUPERSIRE BREEZY	840003129132470						
TWO-ROCK SUPERSONIC 5432	USA 74013360						
TWO-ROCK UNIX 5579	840003129132544						3
TWO-TOP G-CHIP PAISLEY-ET	USA 71154706						
TWO-TOP G-CHIP PISTOL-ET	USA 71154705						
TWO-TOP SHAMELESS FANATIC	USA 71806590						
TY-BRUEGGEN LEGS LOVEAFFAIR	USA 143140436						
TYCHO DAMION 703-ET	USA 74220765						
TYHILL PLANET LISA	USA 141733494						
TYHILL PLANET MELANIE	USA 141970938					C	
TYRA 28	DEU 579328687						
TYRBACH AFFIRMED FAB-ET	USA 138694827	C					
TYRBACH ATWOOD FIGALOO-ET	USA 142923126	C					
TYRBACH MILLION LUCY RAE-ET	USA 141295158		C				
TYRBACH PRONTO FIG-ET	USA 139993433	C					
TYRRELL AUGUSTUS BAILEY-RED	USA 71894082						1
TYRRELL AUGUSTUS DEE-RED	USA 71894081						
TYRRELL DECEIVER MORGAN	USA 71894083						
TYRRELL DICTATE LUCKY7	USA 71894084						
TYRRELL GUTHRIE GOLDIE	USA 71894080						
TYRRELL PLUTARCHO LORNA	USA 71894079						
TYTA-ORTON DANCER SASY-RED	USA 72159643	C					
TYTA-ORTON ERASER P 2573	USA 74064842	C					
TYTA-ORTON ERASR SKIM-PP-ET	840003128590703						
TYTA-ORTON JABIR SARA-TW-ET	USA 74064783						
TYTA-ORTON JABIR STAR-TW-ET	USA 74064782						
TYTA-ORTON LAWNBOY SANDREE	USA 140366163	C					
TYTA-ORTON ROSEROYCE SAFARI	USA 71250740	C					
TYTA-ORTON TEACHER 2562-ET	USA 74064831	C	C				
TYTA-ORTON TEACHER 2563-ET	USA 74064832						