

# GENETIC IMPROVEMENT

## Sires Ranked by Number of Sons Registered, 2016

In 2016, there were 111,410 animals were recorded by the American Jersey Cattle Association. Those animals were sired by 3,281 different bulls (3,204 recorded sires). Which bulls are used most widely? Who are the leading sires of sons?

A total of 70 bulls sired 10 or more sons registered in 2016. In total, these bulls sired 31.2% of all Jerseys—male and female—and 84.7% of all males (3,872) recorded during the year. The 40 bulls siring 18 or more sons are listed below.

Studying the top 10, 20 or 30 of these bulls is important for two reasons. First, they are largely determining the breed's production capability in the near future. Second, they are going to continue to exert their influence upon the breed's genetic merit for production and functional fitness for many years through their registered sons.

Jersey breeders are utilizing the genetic progress genomics gives them. The list reflects that as nearly all of these bulls have come through recently as G-code young bulls.

The relative genetic contribution of the 70 sires with 10 or more sons to the genetic pool for 2016, is indicated by the weighted average (bottom line of the table). The average GJPI is +163 of the sires

and they have a +4.0 Productive Life. This average is higher than the raw average of their PTAs. The bulls with the highest PTAs are contributing the most to the average genetic merit of sons registered in 2016.

### Bulls by Group

The top 10 bulls ranked by the number of sons registered sired a total of 10,114 offspring, of which 814 were sons. Six of the sires from this group are part of the G-status bulls. The 10 bulls average +965 for PTA Milk; \$525 Cheese Merit Dollars; \$499 for Net Merit dollars and \$436 for Fluid Merit dollars. Other averages are +4.4 for Productive Life, a Final Score of +1.1, and +200 for GJPI.

These bulls sired more than twice as many registered offspring as the next group of 10 bulls, that had 350 sons registered. This group continues to be the higher type group with an average of +17.6 for GJUI and an average Final Score of +1.4.

The last two groups of bulls are made up of an even mix of daughter-proven sires and G-Code bulls, showing the progression of the breed.

\* Bulls included are Generation Count 4 or higher with a BBR 90 or above.

Rank	Registered Progeny %	Genomic Predicted Transmitting Ability	% PTA			
2016 2015 Sire Name	JH1 Sons Daus. Total REL Milk	Fat Protein CM\$ NM\$ FM\$ GM\$ SCS PL DPR CCR HCR EFI REL FS GJPI GJUI				
1	5	TJF VISIONARY REGENCY	F 189 939 1,128 74 994 43	47 562 528 447 445 2.87 5.4 -1.0 0.9 2.2 9.3	75 1.5 214 17.8	
2		SUNSET CANYON DIMENSION-ET	F 115 1,337 1,452 99 92 58	39 574 508 349 466 2.89 4.7 0.5 1.6 4.3 7.8	98 0.2 198 6.6	
3	12	STEINHAUERS SAMSON LEMONHEAD	F 98 2,144 2,242 74 315 45	26 448 419 349 405 2.96 4.2 1.3 2.0 0.9 8.8	75 2.0 162 23.5	
4		SUNSET CANYON DAYBREAK-ET	F 92 760 852 99 1087 53	47 572 547 487 506 2.99 5.1 0.6 1.9 3.6 8.6	96 0.3 208 1.8	
5	37	ALL LYNNIS LEGAL VOLCANO-ET	F 71 886 957 99 1307 55	43 497 488 466 410 2.92 4.0 -1.4 0.2 4.0 8.0	98 1.0 196 12.8	
6		DP NXLEVEL-ET	F 63 138 201 73 197 69	52 604 567 477 521 3.03 4.1 0.4 1.0 1.2 7.5	72 1.3 224 8.9	
7	8	BW CITATION A-ET	C 49 596 645 77 427 30	13 362 361 358 292 2.99 5.9 -0.3 -0.3 0.9 9.6	77 1.5 121 29.5	
8	1	SCHULTZ VOLCANO HARRIS {4}	F 47 1,386 1,433 98 2086 86	83 818 779 683 645 2.82 5.4 -2.2 -0.9 1.3 6.9	82 1.3 328 12.2	
9		KASH-IN SMACK-P-ET	F 47 173 220 75 933 40	39 450 429 376 434 2.88 3.2 1.9 2.3 2.3 8.0	74 0.5 182 6.5	
10	10	GABYS ARCHER-ET	F 43 941 984 75 1413 40	40 361 363 368 300 2.90 2.3 -1.1 -0.9 0.6 8.5	74 1.4 165 17.2	
Summary for Bulls 1-10				814 9,300 10,114 84.3 965 52	43 525 499 436 442 2.93 4.4 -0.1 0.8 2.1 8.3	82.1 1.1 200 13.7
11		SUNSET CANYON MIRROR-ET	F 42 681 723 76 -54 50	21 489 451 360 443 3.04 5.4 2.1 1.9 1.6 8.2	76 1.0 153 15.0	
12		WILSONVIEW PHAROAH'S MONUMENT	F 39 313 352 75 1276 39	37 490 490 487 478 2.86 5.5 2.2 2.6 0.5 8.5	75 1.0 194 11.0	
13	7	AHLEM PRESCOTT CALYPSO-ET	F 37 1,784 1,821 73 1154 22	29 318 323 334 282 2.81 3.3 0.1 -0.6 8.2	75 1.3 135 12.3	
14		GLYNN HEADLINE NEWS-ET	F 36 249 285 93 1685 23	48 459 459 458 392 2.83 5.6 0.1 0.6 -0.7 9.1	89 1.2 193 5.1	
15		GLYNN VALENTINO MARCIN	C 35 738 773 98 2084 51	65 515 510 494 329 2.90 3.9 -4.8 -4.4 -1.0 9.8	98 2.1 221 15.3	
16		IGL SANTANA TORPEDO-ET	F 34 72 106 73 952 47	37 514 496 453 394 2.85 5.4 -1.4 -1.3 0.7 7.6	72 1.3 190 24.4	
17		ALL LYNNIS VALENTINO IRWIN-ET	C 33 520 553 99 368 23	16 281 270 243 154 2.91 4.0 -2.7 -3.6 0.7 11.0	98 1.8 96 26.1	
18		CDF KARBALA KWYNN	C 32 212 244 98 482 47	31 516 483 403 431 2.85 5.0 0.1 1.7 1.3 8.4	97 1.7 190 30.3	
19	29	KASH IN SANTANA-P-ET	F 32 127 159 89 1141 54	41 452 434 392 359 2.81 2.8 -1.3 -1.2 2.5 7.2	83 1.0 182 11.3	
20	31	TOWER VUE PRIME TEQUILA-ET	F 30 581 611 99 -1618 -29	-38 -403 -412 -434 -471 3.32 -3.2 -4.1 -5.2 -1.8 3.8	99 1.5 -167 25.6	
Summary for Bulls 11-20				350 5,277 5,627 88 747 33	29 363 350 319 279 2.92 3.8 -1.0 -0.9 0.3 8.2	86.2 1.4 139 17.6
21		KASH-IN SAXON-P-ET	F 29 161 190 76 1214 48	42 485 468 427 393 2.74 3.7 -1.0 -0.5 1.3 8.6	75 1.7 195 15.5	
22		IGL RISING TEMP-ET	F 28 111 139 74 1016 69	47 515 489 425 435 3.08 2.8 -0.3 0.2 -0.2 7.8	74 1.0 189 5.5	
23		CDF IRWIN STEVE	C 27 167 194 75 691 74	40 600 565 480 461 2.93 5.3 -1.4 -0.9 1.7 9.2	75 1.5 203 13.8	
24		BW FASTRACK-ET	F 26 654 680 99 225 50	24 428 400 331 350 3.03 4.4 0.3 -0.1 -0.8 7.3	98 0.7 134 11.2	
25	27	STEINHAUERS IATOLA APPLEJACK	F 26 375 401 99 -367 10	1 73 61 30 145 3.27 -0.5 2.7 3.4 1.7 8.4	99 1.6 28 16.3	
26		SR IRWIN SHAGGY-P	F 25 233 258 75 384 19	20 288 271 231 199 2.89 3.5 -1.3 -1.7 1.3 9.1	75 1.6 107 19.7	
27		AHLEM AXIS BANCROFT-ET	F 24 90 114 75 1326 45	50 653 636 594 587 2.98 7.9 1.4 2.6 2.0 9.4	75 1.3 241 12.7	
28	16	ALL LYNNIS LOUIE VALENTINO-ET	C 23 1,483 1,506 99 768 23	26 352 347 334 234 2.99 5.9 -1.8 -2.4 0.6 11.1	99 1.8 128 19.1	
29		HAWARDEN IMPULS PREMIER	C 23 395 418 99 -726 23	6 342 297 188 274 3.07 5.8 1.7 0.3 0.2 7.7	99 1.0 85 12.8	
30	30	RICHIES JACE TBONE A364	F 23 390 413 99 -214 31	13 129 99 24 62 3.11 -1.1 -1.9 -1.1 1.7 10.1	99 1.1 42 7.1	
Summary for Bulls 21-30				254 4,059 4,313 87 432 39	27 387 363 306 314 3.01 3.8 -0.2 0.0 1.0 8.9	86.8 1.3 135 13.4
31	4	SWEETIE PLUS IATOLAS BOLD {5}	F 22 341 363 99 1340 51	46 326 317 294 265 3.02 -0.8 -1.4 -1.7 -4.8 8.4	99 1.5 142 8.9	
32	9	DUTCH HOLLOW CHARLEMAGNE	F 22 265 287 75 1193 37	39 350 345 330 271 2.98 2.7 -1.2 -1.9 -0.2 9.7	76 1.0 153 15.4	
33	32	SC/RV TRANSFORMER-ET	F 22 161 183 74 953 74	40 457 435 383 324 2.93 2.6 -2.4 -1.7 -1.7 6.6	73 0.4 149 -11.6	
34	2	MISSISKA MACKENZIE-ET	F 21 1,439 1,460 74 304 85	40 643 591 465 465 3.05 5.3 -2.1 -2.0 -0.6 7.8	73 1.4 196 15.6	
35		SV JADE HIRED GUN-ET	F 21 318 339 99 -1437 -18	-29 -53 -75 -127 -13 3.09 2.0 2.5 3.7 0.8 4.3	99 0.8 -48 14.8	
36		MFW SPARKY IMPISH-ET	F 20 236 256 75 1125 60	49 466 442 383 343 3.07 2.5 -2.4 -2.0 1.6 9.1	75 0.8 181 8.5	
37		TOLLENAARS IMPULS LEGAL 233-ET	C 19 307 326 99 297 5	16 217 205 176 207 3.01 2.8 0.8 2.0 3.8 7.0	99 0.9 96 19.6	
38		DUTCH HOLLOW DILLAN-P	F 19 282 301 74 545 53	26 514 493 445 454 2.90 5.6 1.1 1.1 0.6 9.2	74 1.6 169 14.9	
39		IGL MAGNUM MILTON-ET	F 19 38 57 74 1292 80	47 532 521 492 489 3.09 2.6 0.8 0.4 -0.4 8.0	74 0.6 194 -0.5	
40		ORTHBRIDGE RENO	F 18 762 780 82 828 55	24 433 435 438 404 3.00 3.7 0.5 0.8 2.1 5.9	74 1.3 154 20.6	
Summary for Bulls 31-41				203 4,149 4,352 83 644 48	30 389 371 328 321 3.01 2.9 -0.4 -0.1 0.1 7.6	81.6 1.0 139 10.6
For 70 bulls siring 10 or more sons:						
Genetic Evaluation Average				1,998 32,752 34,750 85 570 39	28 388 369 322 322 2.96 3.6 -0.1 0.3 1.1 7.9	83 1.2 141 14.2
Weighted Average of Sires of Sons				85 693 43	33 441 418 362 365 2.94 4.0 -0.2 0.4 1.4 8.2	83 1.2 163 14.1