

## Top 200 TPI Bulls December 2020

(Semen status is Active and Foreign with a minimum of 80% traditional US reliability OR 85% genomic reliability for production and type)

HOLSTEIN ASSOCIATION USA, INC 2020

| Rank | Name                        |       | % RHA | NAAB | PRODUCTION |     |      |      |     | HEALTH |      |      |     |      | CONFORMATION |       |     |       |       | TPI   |      |
|------|-----------------------------|-------|-------|------|------------|-----|------|------|-----|--------|------|------|-----|------|--------------|-------|-----|-------|-------|-------|------|
|      |                             |       |       |      | Pro        | Fat | MILK | fe   | %R  | SCS    | PL   | %R   | LIV | FI   | PTAT         | %R    | UDC | FLC   | BWC   |       |      |
| 1    | AOT SILVER HELIX-ET         | TR TP | 100   | NA   | 14HO07770  | 68  | 128  | 1919 | 272 | 99     | 3.01 | 2.0  | 95  | -3.7 | -0.9         | 1.39  | 98  | 1.05  | 0.27  | 0.29  | 2942 |
| 2    | PINE-TREE BURLEY-ET         | TC TY | 99    | I    | 29HO18225  | 49  | 102  | 1398 | 222 | 99     | 2.88 | 5.0  | 91  | 2.5  | 2.5          | 0.58  | 95  | 0.23  | 0.91  | -0.81 | 2917 |
| 3    | S-S-I JOSUPER ROCKETFIRE-ET | TR TP | 99    | I    | 7HO13454   | 82  | 64   | 2793 | 186 | 97     | 2.85 | 6.6  | 88  | 3.6  | 1.0          | 0.66  | 94  | 0.52  | -0.39 | 0.50  | 2869 |
| 4    | WELCOME SILVER GRIFF-ET     | TR TP | 100   | NA   | 14HO07796  | 56  | 107  | 1031 | 244 | 99     | 3.20 | 2.5  | 90  | 0.2  | 1.2          | 0.79  | 91  | 0.88  | 0.59  | -0.40 | 2864 |
| 5    | ABS ACHIEVER-ET             | TC TY | 99    | NA   | 29HO18296  | 29  | 114  | 305  | 227 | 98     | 2.82 | 5.1  | 88  | 4.3  | 0.1          | 0.37  | 92  | 0.77  | 0.93  | -1.12 | 2839 |
| 6    | PEAK ACCELODIN-ET           | TR TP | 99    | I    | 14HO07828  | 46  | 100  | 584  | 211 | 93     | 2.88 | 3.6  | 87  | 1.2  | 0.9          | 1.44  | 87  | 0.25  | 0.04  | 0.66  | 2811 |
| 7    | S-S-I BG DUKE DELROY-ET     | TR TP | 99    | I    | 14HO13666  | 56  | 85   | 1420 | 206 | 94     | 2.76 | 4.3  | 85  | -0.5 | 0.2          | 0.95  | 85  | 1.20  | -0.33 | -0.44 | 2800 |
| 8    | PINE-TREE SAMIRAH-ET        | TR TC | 99    | I    | 29HO18478  | 60  | 97   | 1304 | 222 | 96     | 2.87 | 3.0  | 87  | 0.3  | 0.3          | 0.47  | 90  | 0.32  | -0.20 | 0.38  | 2792 |
| 9    | S-S-I MONTROSS DUKE-ET      | TR TP | 100   | NA   | 25HO13267  | 76  | 116  | 2357 | 252 | 99     | 2.90 | 1.2  | 93  | -4.3 | -3.0         | 1.39  | 98  | 1.07  | -0.74 | 0.98  | 2782 |
| 10   | BLUMENFELD JEDI RESOLVE-ET  | TR TP | 99    | I    | 7HO12942   | 55  | 51   | 1499 | 131 | 98     | 2.64 | 6.3  | 88  | 2.0  | 1.9          | 1.15  | 94  | 1.22  | -0.48 | 1.32  | 2776 |
| 11   | MR SPRING NIGHTCAP 74636-ET | TC TY | 99    | I    | 551HO03369 | 51  | 69   | 1135 | 181 | 93     | 2.71 | 4.4  | 82  | 1.0  | -0.5         | 1.38  | 86  | 1.83  | 0.16  | -0.66 | 2774 |
| 12   | BOMAZ ALTATOPSHOT-ET        | TR TP | 99    | I    | 11HO11779  | 64  | 89   | 1626 | 218 | 99     | 2.71 | 4.7  | 90  | 2.1  | -0.1         | -0.15 | 95  | -0.28 | -0.72 | -0.11 | 2768 |
| 13   | MR RUBICON DYNAMO-ET        | TR TC | 100   | NA   | 551HO03416 | 55  | 67   | 1750 | 169 | 96     | 2.80 | 5.7  | 88  | 2.5  | -1.0         | 1.10  | 88  | 1.35  | 0.86  | -0.27 | 2766 |
| 14   | MR MCCUT DANTE 1407-ET      | TC TY | 99    | I    | 203HO01513 | 75  | 80   | 2393 | 211 | 99     | 3.03 | 3.4  | 96  | -0.4 | -1.4         | 1.53  | 97  | 0.62  | 0.13  | -0.09 | 2764 |
| 15   | S-S-I MILLINGTON TOTEM-ET   | TR TP | 99    | I    | 25HO13531  | 35  | 73   | 720  | 156 | 92     | 2.58 | 3.6  | 86  | 0.2  | 0.5          | 1.81  | 86  | 1.60  | 0.94  | 0.11  | 2756 |
| 16   | EDG RUBICON-ET              | TR TC | 100   | NA   | 151HO00681 | 39  | 94   | 756  | 190 | 99     | 2.88 | 4.5  | 98  | 2.2  | -1.7         | 1.27  | 99  | 0.72  | 1.93  | 0.34  | 2755 |
| 17   | WOODCREST KING DOC          | TR TP | 99    | I    | 25HO12961  | 52  | 69   | 1668 | 147 | 97     | 3.07 | -0.2 | 88  | -3.5 | -0.2         | 3.32  | 95  | 2.23  | 1.92  | 1.43  | 2755 |
| 18   | DE-SU MILLINGTON 12074-ET   | TR TP | 99    | I    | 7HO12421   | 47  | 98   | 1232 | 213 | 99     | 2.70 | 2.7  | 97  | -1.8 | -0.1         | 0.73  | 97  | 0.63  | 0.15  | -0.58 | 2752 |
| 19   | OCD DENVER CANNON-ET        | TR TP | 99    | I    | 7HO12886   | 37  | 80   | 1083 | 164 | 95     | 2.80 | 3.8  | 87  | -0.5 | 0.8          | 1.33  | 88  | 1.88  | 0.43  | 0.01  | 2751 |
| 20   | DE-SU 13050 SPECTRE-ET      | TR TC | 99    | I    | 29HO18208  | 47  | 120  | 1368 | 237 | 98     | 2.97 | 2.8  | 88  | -0.2 | -0.5         | 0.34  | 92  | -0.18 | -0.17 | -0.15 | 2742 |
| 21   | BUTZ-HILL DELTA-WORTH-ET    | TC TY | 99    | I    | 551HO03415 | 31  | 89   | 885  | 195 | 97     | 2.79 | 5.7  | 87  | 3.2  | -0.3         | 0.81  | 90  | 1.36  | -0.28 | -2.02 | 2741 |
| 22   | PEAK HOTLINE-ET             | TY TV | 100   | NA   | 97HO41774  | 47  | 89   | 888  | 183 | 98     | 3.03 | -0.7 | 89  | -3.3 | -1.8         | 2.95  | 97  | 1.89  | 1.43  | 1.31  | 2728 |
| 23   | SANDY-VALLEY COPYCAT-TW-ET  | TR TP | 99    | I    | 7HO12974   | 49  | 66   | 1236 | 143 | 93     | 2.69 | 3.6  | 86  | -1.4 | 1.4          | 1.21  | 89  | 1.09  | 0.24  | 1.59  | 2727 |
| 24   | UECKER SUPERSIRE JOSUPER-ET | TR TC | 99    | I    | 29HO17553  | 75  | 85   | 2693 | 198 | 99     | 2.86 | 3.9  | 99  | 1.0  | -1.7         | 0.48  | 99  | 0.21  | -0.80 | 1.11  | 2727 |
| 25   | FARNEAR DELTA-LAMBDA-ET     | TR TP | 100   | NA   | 551HO03379 | 41  | 49   | 1059 | 122 | 97     | 2.76 | 3.5  | 88  | 0.7  | 0.2          | 2.55  | 96  | 2.78  | 0.73  | 0.41  | 2726 |
| 26   | PEAK ALTAKEYNOTE-ET         | TR TP | 99    | I    | 11HO11793  | 42  | 91   | 581  | 205 | 95     | 2.96 | 3.3  | 88  | 0.1  | -0.9         | 1.13  | 87  | 1.10  | 0.91  | -0.53 | 2722 |
| 27   | MELARRY JOSUPER FRAZZLED-ET | TR TP | 99    | I    | 7HO12788   | 42  | 76   | 1707 | 161 | 99     | 2.48 | 5.7  | 91  | 1.3  | -0.6         | 0.55  | 98  | 1.26  | -0.39 | -0.44 | 2721 |
| 28   | S-S-I KINGPIN PHANTOM-ET    | TR TP | 99    | I    | 7HO13334   | 72  | 92   | 2036 | 216 | 98     | 2.87 | 1.0  | 91  | -2.3 | -2.3         | 1.27  | 95  | 0.56  | -0.24 | 1.00  | 2721 |
| 29   | PROGENESIS GRANITE-ET       | TR TP | 99    | I    | 200HO10616 | 43  | 84   | 1072 | 167 | 99     | 3.19 | 2.8  | 90  | 0.2  | 0.9          | 1.48  | 97  | 0.61  | 0.84  | 1.17  | 2717 |
| 30   | MR MOGUL DELTA 1427-ET      | TR TC | 100   | NA   | 203HO01468 | 36  | 63   | 1105 | 157 | 99     | 2.96 | 5.7  | 99  | 1.9  | 0.5          | 1.29  | 99  | 1.94  | 0.72  | -1.59 | 2714 |
| 31   | WET RODGERS MYLES           | TR TP | 100   | NA   | 14HO07804  | 47  | 44   | 1327 | 125 | 99     | 2.75 | 3.9  | 90  | 0.9  | 0.9          | 1.38  | 94  | 2.09  | 0.90  | 0.09  | 2714 |
| 32   | PEAK ALTAAMULET-ET          | TR TP | 99    | I    | 11HO11725  | 58  | 52   | 1922 | 147 | 99     | 2.86 | 4.3  | 91  | 0.1  | -0.9         | 1.50  | 96  | 2.12  | 0.70  | 0.00  | 2712 |
| 33   | BUTZ-HILL SILVER WINGS-ET   | TR TP | 99    | I    | 522HO03414 | 36  | 86   | 814  | 171 | 95     | 2.85 | 3.5  | 86  | -1.0 | -0.1         | 1.24  | 89  | 1.22  | 0.68  | 0.42  | 2711 |
| 34   | PINE-TREE VERONA-ET         | TR TC | 99    | I    | 29HO18197  | 38  | 73   | 330  | 170 | 98     | 2.85 | 4.0  | 89  | 1.2  | 1.4          | 0.55  | 94  | 0.97  | 0.69  | -0.01 | 2711 |
| 35   | L-L-M-DAIRY POND PASSAT-ET  | TR TP | 99    | I    | 7HO12659   | 35  | 82   | 1186 | 172 | 99     | 2.91 | 5.4  | 90  | 0.7  | 1.7          | 0.12  | 93  | 0.56  | -0.20 | -0.86 | 2709 |

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|------|-----------------------------|-------|-----|----|------------|------------|-----|------|-----|----|--------|-----|----|------|------|--------------|----|-------|-------|-------|------|
|      |                             |       | %   |    |            | Pro        | Fat | MILK | fe  | %R | SCS    | PL  | %R | LIV  | FI   | PTAT         | %R | UDC   | FLC   | BWC   | TPI  |
| 36   | PEAK LIGERO-ET              | TY TV | 96  | NA | 97HO41744  | 46         | 84  | 1275 | 187 | 97 | 2.89   | 3.2 | 89 | 1.7  | 0.2  | 0.27         | 90 | 0.38  | 0.65  | -0.35 | 2709 |
| 37   | OCD JOSUPER ZAMBONI-ET      | TR TP | 99  | I  | 7HO12837   | 56         | 67  | 1739 | 168 | 98 | 2.76   | 3.1 | 89 | -1.1 | -1.1 | 1.31         | 91 | 1.53  | 0.37  | -0.03 | 2705 |
| 38   | CO-OP TROY PILEDRIVER-ET    | TR TP | 99  | I  | 1HO12786   | 84         | 100 | 3008 | 244 | 99 | 3.34   | 0.9 | 91 | -1.5 | -4.9 | 1.34         | 95 | 0.61  | 0.98  | -0.04 | 2701 |
| 39   | OCD SPRING SAMURI-ET        | TR TP | 99  | I  | 7HO12897   | 37         | 79  | 362  | 169 | 99 | 3.07   | 2.8 | 90 | 0.2  | 1.9  | 1.20         | 96 | 0.84  | 0.30  | 0.61  | 2700 |
| 40   | ABS ASHFORD-ET              | TC TY | 99  | NA | 29HO18303  | 39         | 72  | 1113 | 169 | 91 | 3.12   | 3.2 | 83 | 2.1  | 0.9  | 0.95         | 88 | 1.29  | 1.05  | -1.10 | 2697 |
| 41   | HURTGENLEA YDR OUTSIDERS-ET | TR TP | 100 | NA | 7HO12819   | 55         | 82  | 1960 | 173 | 99 | 2.84   | 3.5 | 90 | 1.2  | -0.8 | 0.49         | 95 | 0.50  | 0.35  | 0.90  | 2697 |
| 42   | SILVERRIDGE V ETESIAN-ET    | TR TP | 99  | I  | 200HO10606 | 42         | 55  | 1926 | 111 | 94 | 2.79   | 4.6 | 88 | 0.3  | 0.9  | 1.90         | 92 | 1.32  | 0.77  | 0.80  | 2696 |
| 43   | ABS MEDLEY-ET               | TC TY | 99  | I  | 29HO18343  | 41         | 69  | 954  | 163 | 97 | 2.88   | 5.6 | 87 | 3.3  | 0.8  | 0.51         | 89 | 0.17  | 0.91  | -0.39 | 2694 |
| 44   | ABS ROWDY-ET                | TC TY | 99  | I  | 29HO17947  | 64         | 84  | 2125 | 201 | 99 | 2.89   | 4.4 | 92 | 0.9  | -0.4 | 0.23         | 91 | -0.27 | -1.13 | -0.05 | 2690 |
| 45   | MORNINGVIEW RAWHIDE-ET      | TR TC | 99  | I  | 29HO18337  | 41         | 65  | 952  | 147 | 94 | 2.83   | 2.4 | 87 | -1.1 | -1.1 | 2.06         | 91 | 1.93  | 1.57  | 0.41  | 2690 |
| 46   | MR SPRING NOBLE-ET          | TR TC | 99  | I  | 551HO03412 | 31         | 43  | 848  | 111 | 94 | 2.64   | 5.7 | 86 | 3.0  | 1.3  | 1.29         | 87 | 2.11  | 0.26  | -0.58 | 2688 |
| 47   | ABS RAIDEN-ET               | TC TY | 99  | I  | 29HO17941  | 42         | 88  | 1670 | 185 | 99 | 2.78   | 4.4 | 91 | 3.1  | -0.5 | 0.17         | 96 | 0.95  | -1.03 | -0.90 | 2686 |
| 48   | MR SEAGULL-BAY MALDEVES-ET  | TC TY | 99  | I  | 29HO18353  | 38         | 78  | 703  | 171 | 96 | 3.11   | 2.4 | 88 | -1.6 | 1.2  | 0.92         | 89 | 1.38  | 0.65  | -0.10 | 2686 |
| 49   | SANDY-VALLEY CALVON-ET      | TR TP | 99  | I  | 777HO10574 | 42         | 60  | 1205 | 139 | 96 | 2.65   | 4.4 | 86 | 2.3  | 0.3  | 0.94         | 91 | 0.98  | 0.21  | 0.22  | 2679 |
| 50   | BOMAZ ALTAUPSHOT-ET         | TR TP | 99  | I  | 11HO11781  | 57         | 81  | 1954 | 193 | 98 | 2.94   | 3.3 | 89 | 1.2  | 0.6  | 0.25         | 90 | -0.10 | -0.73 | -0.53 | 2677 |
| 51   | MR JACEY DECOY 57578-ET     | TC TY | 99  | I  | 203HO03005 | 84         | 38  | 2609 | 175 | 99 | 2.81   | 4.1 | 91 | 0.6  | 0.4  | 0.34         | 90 | 0.08  | 0.21  | -1.13 | 2676 |
| 52   | BACON-HILL HURRICANE-ET     | TR TP | 100 | NA | 14HO07714  | 34         | 71  | 1002 | 140 | 99 | 2.75   | 1.1 | 92 | -2.4 | 0.4  | 1.60         | 96 | 2.21  | 0.53  | 0.56  | 2675 |
| 53   | TEEMAR ASTON-ET             | TR TC | 99  | I  | 29HO18076  | 59         | 75  | 1941 | 176 | 93 | 2.89   | 4.3 | 85 | 0.4  | 0.5  | -0.02        | 89 | -0.41 | 0.15  | 0.46  | 2669 |
| 54   | EDG DELTA-CHANCE-ET         | TC TY | 99  | I  | 551HO03360 | 24         | 66  | 378  | 141 | 92 | 3.01   | 3.5 | 84 | 0.6  | 2.8  | 1.27         | 85 | 1.47  | 0.05  | -0.67 | 2668 |
| 55   | DE-SU ALTALEAF-ET           | TR TP | 99  | I  | 11HO11478  | 53         | 70  | 2013 | 157 | 99 | 2.80   | 2.4 | 97 | 0.6  | -0.5 | 1.52         | 96 | 0.77  | 0.62  | 0.39  | 2667 |
| 56   | SEAGULL-BAY RIVERWIND-ET    | TR TC | 99  | I  | 29HO18217  | 29         | 58  | 463  | 127 | 92 | 2.95   | 4.3 | 86 | 1.1  | 2.0  | 1.02         | 88 | 1.54  | 0.71  | 0.15  | 2662 |
| 57   | ROSYLANE-LLC SPOCK-ET       | TC TY | 99  | I  | 29HO18182  | 20         | 102 | -118 | 178 | 99 | 2.88   | 2.7 | 89 | -1.0 | -0.4 | 0.94         | 92 | 0.70  | 1.11  | 0.71  | 2660 |
| 58   | HARTFORD RUBI-TAZ-ET        | TC TY | 99  | I  | 551HO03420 | 39         | 80  | 1105 | 162 | 94 | 2.94   | 4.1 | 86 | 2.5  | 0.1  | 0.58         | 86 | -0.09 | 1.34  | 0.43  | 2658 |
| 59   | ABS JAZZMAN-ET              | TR TC | 99  | I  | 29HO18255  | 59         | 70  | 2191 | 180 | 98 | 2.70   | 3.9 | 88 | 0.8  | 0.0  | -0.37        | 92 | 0.10  | -0.53 | -0.87 | 2657 |
| 60   | CO-OP AARDEMA TETHRA-ET     | TR TP | 99  | I  | 1HO11913   | 46         | 62  | 1847 | 128 | 97 | 2.70   | 4.6 | 89 | 0.3  | 1.7  | 0.61         | 87 | 0.72  | -0.24 | 0.95  | 2657 |
| 61   | SIEMERS BLOOMFIELD-ET       | TR TP | 100 | NA | 777HO10693 | 4          | 84  | -497 | 142 | 98 | 2.78   | 3.4 | 89 | 0.9  | 1.8  | 1.47         | 95 | 2.07  | -0.05 | -0.24 | 2656 |
| 62   | SANDY-VALLEY EVEREST-ET     | TR TP | 99  | I  | 7HO12821   | 37         | 100 | 681  | 204 | 99 | 2.77   | 3.4 | 90 | 1.3  | -0.3 | -0.19        | 93 | 0.05  | -0.62 | -0.25 | 2654 |
| 63   | WILRA BIXBY-ET              | TC TY | 99  | I  | 29HO18109  | 26         | 88  | 466  | 189 | 98 | 2.84   | 3.1 | 91 | 0.2  | -2.3 | 1.36         | 92 | 1.98  | 1.23  | -1.74 | 2654 |
| 64   | BOMAZ ZIGZAG-ET             | TC TY | 99  | I  | 29HO18267  | 51         | 92  | 1499 | 208 | 98 | 2.92   | 3.1 | 88 | 1.2  | -2.7 | 0.47         | 89 | 0.35  | 0.26  | -0.66 | 2653 |
| 65   | MR OAK DIXON 57482-ET       | TC TY | 99  | I  | 151HO01611 | 62         | 73  | 1753 | 186 | 97 | 2.80   | 2.8 | 88 | 1.1  | -1.4 | 1.04         | 92 | 0.47  | -0.17 | 0.16  | 2652 |
| 66   | WILRA COLEMAN-ET            | TC TY | 99  | I  | 29HO18077  | 26         | 92  | 874  | 173 | 99 | 2.91   | 5.0 | 90 | 3.2  | 1.3  | -0.18        | 92 | 0.29  | -0.98 | -0.66 | 2650 |
| 67   | MR MOGUL DENVER 1426-ET     | TC TY | 100 | NA | 151HO00690 | 60         | 85  | 1945 | 201 | 99 | 3.18   | 1.1 | 97 | -2.7 | -2.3 | 1.27         | 98 | 1.91  | 0.07  | -0.23 | 2649 |
| 68   | SANDY-VALLEY ANAKIN-ET      | TR TP | 99  | I  | 200HO10850 | 71         | 51  | 1932 | 155 | 93 | 3.09   | 1.3 | 85 | -2.4 | 0.2  | 1.56         | 88 | 1.39  | -0.42 | 1.13  | 2649 |
| 69   | WESTCOAST TICKET-ET         | TR TP | 99  | I  | 200HO10645 | 30         | 60  | -25  | 136 | 95 | 2.80   | 2.0 | 88 | -1.8 | 1.1  | 1.63         | 93 | 1.49  | 1.08  | 0.60  | 2649 |
| 70   | COOKIECUTTER HARPER-ET      | TR TC | 99  | I  | 29HO17747  | 43         | 61  | 55   | 161 | 97 | 2.84   | 2.6 | 91 | -0.6 | 0.6  | 1.28         | 93 | 0.63  | 1.40  | 0.51  | 2644 |

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|------|-----------------------------|-------|-------|------|------------|-----|------|------|-----|--------|------|-----|-----|------|--------------|-------|-----|-------|-------|-------|------|
|      |                             |       |       |      | Pro        | Fat | MILK | fe   | %R  | SCS    | PL   | %R  | LIV | FI   | PTAT         | %R    | UDC | FLC   | BWC   |       |      |
| 71   | PEAK ALTALOBELLO-ET         | TR TP | 99    | I    | 11HO11826  | 31  | 61   | 347  | 135 | 98     | 2.71 | 3.8 | 89  | 1.7  | 1.1          | 1.13  | 94  | 0.81  | 0.31  | 0.32  | 2644 |
| 72   | BOMAZ YOSHI-ET              | TC TY | 99    | I    | 29HO18383  | 30  | 90   | 718  | 196 | 96     | 2.90 | 4.2 | 87  | 1.9  | 0.8          | -0.27 | 90  | 0.12  | -0.21 | -1.89 | 2643 |
| 73   | DE-SU 12693 SKYFALL-ET      | TC TY | 99    | I    | 29HO17918  | 30  | 85   | 854  | 161 | 99     | 2.81 | 3.3 | 91  | 1.7  | 0.7          | 0.50  | 95  | 0.35  | 0.57  | 0.13  | 2643 |
| 74   | NO-FLA LUXURY-ET            | TC TY | 99    | I    | 29HO18362  | 39  | 66   | 1707 | 158 | 95     | 2.95 | 4.6 | 87  | -0.4 | 1.6          | 0.19  | 88  | 0.87  | 0.37  | -1.76 | 2643 |
| 75   | WOODCREST MOGUL YODER-ET    | TR TP | 100   | NA   | 7HO12266   | 32  | 81   | 519  | 177 | 99     | 3.08 | 3.0 | 99  | 1.8  | 0.3          | 0.63  | 99  | 1.04  | 0.47  | -0.81 | 2643 |
| 76   | VIEW-HOME MESQUITE-ET       | TR TP | 99    | I    | 200HO10696 | 60  | 72   | 2275 | 160 | 91     | 2.83 | 2.6 | 84  | -0.4 | -2.4         | 1.63  | 89  | 0.66  | 0.33  | 0.98  | 2642 |
| 77   | PLAIN-KNOLL YODR INFERNO-ET | TR TP | 100   | NA   | 7HO12864   | 22  | 62   | 359  | 127 | 95     | 2.90 | 3.9 | 89  | 1.2  | 2.2          | 1.02  | 93  | 1.55  | 0.56  | -0.26 | 2641 |
| 78   | S-S-I TETRIS VERTEX-ET      | TR TP | 99    | I    | 7HO13253   | 37  | 71   | 1895 | 144 | 98     | 2.86 | 2.7 | 89  | -0.8 | -0.2         | 1.59  | 91  | 0.97  | 0.72  | -0.66 | 2641 |
| 79   | FARNEAR DELTA-BETA 241-ET   | TR TP | 100   | NA   | 151HO03244 | 30  | 58   | 439  | 139 | 96     | 2.83 | 4.4 | 87  | 0.9  | 0.0          | 1.46  | 92  | 2.28  | 0.00  | -0.63 | 2640 |
| 80   | NO-FLA ALTAFACET-ET         | TR TP | 96    | I    | 11HO11740  | 48  | 81   | 1074 | 175 | 93     | 2.89 | 2.0 | 86  | -1.4 | -0.6         | 0.83  | 85  | 0.44  | 0.41  | 0.86  | 2636 |
| 81   | PINE-TREE JOJO-ET           | TC TY | 99    | I    | 29HO18416  | 46  | 51   | 1312 | 122 | 89     | 2.70 | 5.2 | 82  | 1.2  | 0.9          | 0.91  | 86  | 0.87  | -0.73 | 0.98  | 2636 |
| 82   | CLEAR-ECHO SUMO 569-ET      | TR TP | 99    | I    | 7HO12801   | 54  | 50   | 1501 | 145 | 98     | 3.00 | 4.7 | 90  | 1.0  | 2.0          | 0.23  | 93  | 0.11  | 0.05  | -0.04 | 2632 |
| 83   | DOUBLE-EAGLE BAYON DEANO-ET | TR TP | 100   | NA   | 7HO12928   | 47  | 70   | 1596 | 160 | 95     | 3.02 | 2.4 | 87  | 0.2  | -0.5         | 1.97  | 89  | 1.12  | 0.74  | -0.15 | 2632 |
| 84   | SILVERRIDGE V EUGENIO-ET    | TR TP | 99    | I    | 200HO10549 | 36  | 52   | 1544 | 98  | 98     | 2.82 | 3.6 | 90  | 0.3  | 0.1          | 1.84  | 96  | 1.70  | 0.76  | 1.21  | 2632 |
| 85   | PEAK ACCELRENOWN-ET         | TR TP | 100   | NA   | 14HO07811  | 19  | 62   | 534  | 109 | 99     | 3.01 | 3.4 | 91  | 2.9  | 0.7          | 1.77  | 95  | 2.24  | 0.76  | 0.48  | 2626 |
| 86   | MR RUBICON DYNASTY-ET       | TR TC | 100   | NA   | 551HO03418 | 50  | 73   | 1018 | 177 | 99     | 2.78 | 4.4 | 89  | 1.8  | -0.9         | 0.43  | 91  | 0.12  | -0.16 | 0.21  | 2625 |
| 87   | STANTONS USEFUL-ET          | TR TP | 99    | I    | 777HO10808 | 29  | 73   | -56  | 161 | 92     | 2.91 | 3.8 | 85  | 2.3  | 0.7          | 0.82  | 88  | 0.47  | 0.82  | -0.01 | 2625 |
| 88   | DE-SU 12925 KEENAN          | TR TC | 99    | I    | 29HO18136  | 39  | 59   | 717  | 119 | 96     | 2.78 | 3.5 | 88  | 0.9  | 0.4          | 1.24  | 90  | 1.19  | -0.13 | 2.00  | 2624 |
| 89   | SILVERRIDGE V EUCLID-ET     | TR TP | 99    | I    | 777HO10550 | 43  | 70   | 1725 | 136 | 99     | 2.89 | 3.6 | 91  | 0.6  | -1.0         | 1.30  | 96  | 0.85  | 0.56  | 1.02  | 2624 |
| 90   | WEIGELINE JACEY TABASCO-ET  | TR TP | 99    | I    | 1HO11376   | 73  | 44   | 2073 | 154 | 99     | 2.71 | 1.9 | 97  | -2.5 | 1.0          | 0.82  | 95  | -0.20 | -0.02 | 0.49  | 2623 |
| 91   | PEAK ALTATURNKEY-ET         | TR TP | 99    | I    | 11HO11718  | 31  | 83   | 605  | 174 | 99     | 2.91 | 3.5 | 91  | 0.7  | 0.2          | 0.87  | 95  | 0.31  | 0.12  | -0.60 | 2622 |
| 92   | ABS ARIZONA-ET              | TC TY | 99    | NA   | 29HO18260  | 28  | 89   | 513  | 183 | 96     | 3.00 | 3.3 | 88  | 3.0  | -0.6         | 0.20  | 91  | 0.53  | 0.85  | -0.94 | 2620 |
| 93   | CO-OP ME LANDMINE-ET        | TR TP | 99    | NA   | 1HO13087   | 58  | 78   | 2204 | 185 | 99     | 2.99 | 2.2 | 89  | -0.2 | 0.4          | -0.15 | 91  | -0.26 | -0.64 | -0.45 | 2620 |
| 94   | SILVERRIDGE V IMAX-ET       | TR TP | 99    | I    | 200HO10619 | 41  | 76   | 1125 | 155 | 98     | 3.12 | 2.9 | 89  | 0.2  | -1.8         | 1.26  | 96  | 1.79  | 0.77  | 0.81  | 2620 |
| 95   | BEN-AKERS SLUGGER-ET        | TC TY | 99    | I    | 29HO18244  | 21  | 54   | 442  | 118 | 92     | 2.76 | 3.9 | 85  | 1.5  | 2.1          | 0.59  | 88  | 1.59  | 0.89  | -0.73 | 2619 |
| 96   | S-S-I DAMARIS WINSTON-ET    | TR TP | 99    | I    | 7HO13326   | 54  | 36   | 1743 | 132 | 96     | 3.10 | 5.1 | 89  | 2.8  | 1.3          | 0.59  | 90  | 1.24  | 0.00  | -1.00 | 2617 |
| 97   | PEAK ALTAHISTORIC-ET        | TR TP | 99    | I    | 11HO11885  | 24  | 59   | 315  | 111 | 95     | 2.90 | 1.8 | 87  | -2.0 | 0.4          | 2.22  | 92  | 1.87  | 1.35  | 1.06  | 2616 |
| 98   | PLAIN-KNOLL KING ROYAL-ET   | TR TP | 99    | I    | 7HO12787   | 36  | 56   | 302  | 135 | 99     | 3.11 | 0.0 | 91  | -3.1 | 0.4          | 2.72  | 98  | 2.13  | 1.33  | 0.60  | 2616 |
| 99   | ENDCO ARGO-ET               | RC CD | 100   | NA   | 534HO00073 | 26  | 51   | 492  | 116 | 93     | 2.70 | 4.2 | 85  | 1.5  | -0.4         | 1.60  | 87  | 2.09  | 0.67  | -0.22 | 2615 |
| 100  | PINE-TREE JUMPSHOT-ET       | TC TY | 99    | I    | 29HO18054  | 38  | 72   | 1019 | 156 | 99     | 2.87 | 3.8 | 90  | 1.9  | 0.7          | 0.30  | 89  | 0.47  | -0.17 | -0.06 | 2613 |
| 101  | MR PRE DIRECTOR 57512-ET    | CD TY | 100   | NA   | 151HO01602 | 33  | 35   | 291  | 109 | 99     | 2.84 | 6.5 | 91  | 5.3  | 2.4          | 0.65  | 97  | 0.96  | -0.24 | -0.23 | 2606 |
| 102  | DE-SU 13316 DYNAMITE        | TR TC | 99    | I    | 29HO18422  | 24  | 58   | 247  | 133 | 90     | 2.88 | 4.4 | 83  | 1.4  | 1.2          | 1.22  | 87  | 1.72  | -0.20 | -0.74 | 2605 |
| 103  | SIEMERS U-BEST-ET           | TR TP | 99    | I    | 200HO10694 | 21  | 65   | 30   | 113 | 93     | 2.58 | 4.0 | 87  | 0.4  | 1.8          | 0.96  | 91  | 0.41  | 0.56  | 1.54  | 2604 |
| 104  | TRANQUILLITY AC PRIDE-ET    | TC TY | 100   | NA   | 147HO02442 | 25  | 78   | 542  | 159 | 99     | 3.07 | 5.5 | 96  | 2.7  | 0.9          | 0.29  | 95  | 0.63  | 0.34  | -0.81 | 2604 |
| 105  | VIEW-HOME MANDATE-ET        | TR TP | 100   | NA   | 777HO10196 | 48  | 77   | 1549 | 188 | 99     | 2.81 | 2.0 | 95  | 0.2  | -0.8         | 0.96  | 97  | 0.33  | -0.90 | -1.34 | 2602 |

## Top 200 TPI Bulls December 2020

(Semen status is Active and Foreign with a minimum of 80% traditional US reliability OR 85% genomic reliability for production and type)

HOLSTEIN ASSOCIATION USA, INC 2020

| Rank | Name                        |        | % RHA | NAAB | PRODUCTION |     |      |      |     | HEALTH |      |     |     |      | CONFORMATION |       |     |       |       | TPI   |      |
|------|-----------------------------|--------|-------|------|------------|-----|------|------|-----|--------|------|-----|-----|------|--------------|-------|-----|-------|-------|-------|------|
|      |                             |        |       |      | Pro        | Fat | MILK | fe   | %R  | SCS    | PL   | %R  | LIV | FI   | PTAT         | %R    | UDC | FLC   | BWC   |       |      |
| 106  | S-S-I PROVIDER PORSCHE-ET   | TY TV  | 100   | NA   | 7HO13567   | 37  | 46   | 837  | 122 | 95     | 2.74 | 4.5 | 87  | -0.4 | 0.7          | 0.67  | 90  | 1.38  | 0.59  | -0.23 | 2601 |
| 107  | DE-SU JOS FIX IT-ET         | TR TP  | 99    | I    | 566HO01267 | 51  | 59   | 1988 | 131 | 95     | 2.87 | 4.2 | 87  | 1.4  | -2.0         | 1.37  | 85  | 1.25  | 0.36  | 0.89  | 2600 |
| 108  | SYNERGY SECOYA-ET           | TC TY  | 100   | NA   | 29HO18263  | 27  | 40   | 851  | 96  | 92     | 2.79 | 6.4 | 86  | 2.9  | 1.3          | 0.86  | 88  | 2.02  | -0.13 | -0.33 | 2600 |
| 109  | PLAIN-KNOLL JSPP ADVANCE-ET | TR TP  | 99    | I    | 7HO12868   | 44  | 61   | 706  | 154 | 97     | 3.08 | 3.0 | 88  | 0.3  | -0.6         | 1.12  | 92  | 1.18  | 0.80  | 0.23  | 2599 |
| 110  | SANDY-VALLEY EFFUSIVE-ET    | TR TP  | 99    | I    | 777HO10589 | 59  | 90   | 2147 | 207 | 98     | 3.10 | 1.8 | 87  | 0.3  | -1.8         | 0.61  | 94  | 0.27  | -1.27 | -0.61 | 2599 |
| 111  | COMYN-PBCD JITTERS-ET       | TC     | 99    | I    | 29HO18167  | 35  | 37   | 1424 | 74  | 92     | 2.89 | 5.2 | 87  | 2.5  | 3.5          | 0.44  | 88  | 0.99  | -0.28 | 1.40  | 2598 |
| 112  | WILRA HARVEST-ET            | TC TY  | 99    | I    | 29HO18043  | 25  | 38   | 659  | 83  | 98     | 2.91 | 4.0 | 90  | 0.7  | 0.9          | 2.40  | 94  | 1.78  | 1.54  | 0.52  | 2598 |
| 113  | FARNEAR DIRECTOR JUDGE-ET   | TR CD  | 99    | I    | 551HO03378 | 28  | 44   | 442  | 106 | 96     | 2.88 | 5.5 | 86  | 2.8  | 1.4          | 1.34  | 85  | 1.13  | 0.26  | 0.10  | 2597 |
| 114  | SEAGULL-BAY JO DANCER-ET    | TR TC  | 99    | I    | 29HO18018  | 41  | 90   | 564  | 190 | 99     | 2.76 | 3.0 | 91  | 1.2  | -0.7         | 0.26  | 94  | -0.19 | -1.20 | 0.45  | 2597 |
| 115  | CHARPENTIER BUBBLEBOX-ET    | B/R TP | 99    | I    | 200HO10626 | 36  | 56   | 1604 | 116 | 98     | 2.89 | 4.6 | 89  | 0.7  | 0.4          | 0.61  | 95  | 1.50  | 0.42  | 0.17  | 2596 |
| 116  | IHG ABS JERICHO-ET          | TR TC  | 99    | I    | 29HO18110  | 39  | 72   | 844  | 151 | 98     | 2.87 | 2.8 | 89  | -0.1 | -1.5         | 1.33  | 94  | 1.36  | 0.15  | 0.81  | 2596 |
| 117  | ENDCO APPRENTICE-ET         | RC CD  | 99    | I    | 200HO10648 | 40  | 48   | 1436 | 118 | 99     | 2.66 | 4.2 | 91  | -0.9 | 0.6          | 0.97  | 98  | 0.71  | 0.16  | -0.14 | 2592 |
| 118  | PEAK ALTATIEROD-ET          | TR TP  | 96    | NA   | 11HO11823  | 61  | 53   | 2295 | 127 | 95     | 2.89 | 1.6 | 88  | -0.4 | -0.7         | 1.57  | 86  | 0.60  | 0.85  | 1.60  | 2592 |
| 119  | ZIMMERVIEW TOMEK 562-ET     | TR TP  | 100   | NA   | 7HO12657   | 50  | 56   | 1472 | 135 | 96     | 2.97 | 0.9 | 88  | -1.2 | -0.4         | 1.84  | 91  | 1.10  | 0.95  | 0.86  | 2591 |
| 120  | LISMORE KNGBOY TUBB 6198-ET | TC TY  | 99    | I    | 551HO03305 | 43  | 60   | 1674 | 118 | 96     | 2.81 | 0.4 | 88  | -3.5 | 0.0          | 1.87  | 89  | 1.88  | -0.35 | 1.41  | 2589 |
| 121  | SEAGULL-BAY SR STARDUST-ET  | TR TC  | 99    | I    | 29HO18215  | 29  | 54   | 305  | 128 | 91     | 2.88 | 2.9 | 84  | -0.3 | 1.9          | 0.57  | 87  | 1.22  | 1.01  | -0.15 | 2589 |
| 122  | ABS MANSFIELD-ET            | TR TC  | 99    | I    | 29HO18006  | 67  | 38   | 1863 | 138 | 98     | 2.94 | 3.0 | 89  | 0.3  | -0.2         | 1.10  | 91  | 0.79  | -0.68 | 0.47  | 2587 |
| 123  | LARCREST COLLUDE-ET         | TR TC  | 99    | I    | 29HO17784  | 34  | 37   | 238  | 120 | 99     | 2.71 | 3.9 | 96  | 0.8  | 1.6          | 0.97  | 96  | 1.38  | -0.07 | -0.61 | 2587 |
| 124  | ABS BENSON-ET               | TC     | 100   | NA   | 29HO17913  | 42  | 66   | 1226 | 161 | 96     | 2.79 | 3.8 | 89  | 0.4  | 0.0          | 0.03  | 91  | 0.98  | -0.36 | -0.82 | 2585 |
| 125  | COYNE-FARMS SYMPATI PAT-RED | TP TC  | 99    | I    | 7HO12436   | 39  | 46   | 864  | 124 | 99     | 2.89 | 3.4 | 96  | 1.0  | 0.8          | 0.93  | 97  | 1.36  | 0.86  | -0.15 | 2585 |
| 126  | RONELEE MIDNIGHT DETOUR-ET  | TC TY  | 100   | NA   | 513HO03091 | 34  | 47   | 683  | 127 | 99     | 2.87 | 2.7 | 93  | 0.4  | 0.6          | 1.00  | 98  | 1.63  | 0.93  | -0.72 | 2583 |
| 127  | DANHOF JOSUPER DILLION      | TR TP  | 99    | I    | 179HO00114 | 46  | 53   | 1662 | 131 | 98     | 3.02 | 4.1 | 89  | 1.1  | 1.1          | 0.43  | 87  | 0.71  | -0.33 | -0.06 | 2582 |
| 128  | T-SPRUCE SUPRSHT WIGGINS-ET | TR TP  | 99    | NA   | 7HO12724   | 67  | 29   | 1706 | 122 | 97     | 2.95 | 2.6 | 88  | -1.2 | -0.6         | 1.69  | 94  | 1.23  | 0.05  | 0.99  | 2582 |
| 129  | PROGENESIS ORION-ET         | TR TP  | 99    | I    | 777HO10457 | 34  | 54   | 1539 | 108 | 99     | 2.82 | 2.2 | 91  | -3.1 | 0.2          | 2.09  | 98  | 1.70  | 0.36  | 0.36  | 2581 |
| 130  | EDG MOGUL ROWDY 8065-ET     | TR TC  | 100   | NA   | 151HO00756 | 57  | 84   | 2353 | 195 | 98     | 2.93 | 2.7 | 91  | -0.3 | -3.3         | 0.36  | 91  | 0.02  | 0.90  | -0.99 | 2577 |
| 131  | S-S-I PROFIT MAKER-ET       | TR TP  | 99    | I    | 7HO13514   | 47  | 34   | 1058 | 121 | 95     | 2.71 | 4.9 | 87  | 0.2  | 0.6          | 0.70  | 89  | 0.82  | 0.32  | -0.34 | 2577 |
| 132  | MR SALVATORE RC-ET          | RC TP  | 100   | NA   | 534HO00061 | 33  | 42   | 1586 | 79  | 98     | 2.68 | 4.9 | 90  | 1.3  | -0.3         | 1.62  | 97  | 1.04  | 1.65  | 1.05  | 2576 |
| 133  | COOKIECUTTER PBAL HECTOR-ET | TR TP  | 100   | NA   | 14HO07784  | 61  | 56   | 1883 | 170 | 92     | 2.89 | 1.9 | 86  | -1.4 | -0.9         | 0.83  | 87  | 0.82  | -0.45 | -0.89 | 2575 |
| 134  | DE-SU 13149 FIGURATE-ET     | TR TC  | 99    | I    | 29HO18314  | 36  | 100  | 587  | 214 | 91     | 3.09 | 1.6 | 84  | -0.8 | -0.5         | 0.11  | 88  | -0.06 | -0.24 | -1.12 | 2574 |
| 135  | GLEN-D-HAVEN ALTAHOTROD     | TR TP  | 100   | NA   | 11HO11493  | 58  | 56   | 1862 | 137 | 99     | 3.03 | 0.3 | 97  | -1.1 | 0.5          | 1.73  | 97  | 0.50  | 0.37  | 1.29  | 2573 |
| 136  | OCD JABIR HEISENBERG-ET     | TR TP  | 99    | I    | 7HO12569   | 22  | 45   | 20   | 74  | 99     | 2.95 | 2.6 | 96  | -0.3 | 2.3          | 1.92  | 99  | 1.11  | 1.35  | 2.56  | 2573 |
| 137  | PRIDE SPARK TRUMP 284-ET    | TR TP  | 99    | I    | 7HO12872   | 41  | 45   | 1485 | 120 | 97     | 2.69 | 5.0 | 89  | 3.1  | 0.3          | 0.09  | 92  | 0.73  | 0.02  | -0.56 | 2573 |
| 138  | IHG PONDER ETHICS-ET        | TR TP  | 100   | NA   | 566HO01244 | 31  | 42   | 1099 | 90  | 91     | 2.56 | 6.4 | 82  | 4.0  | 2.9          | -0.70 | 86  | -0.31 | 0.19  | 0.59  | 2570 |
| 139  | MR COIN DRACO 15006-ET      | TR CD  | 100   | NA   | 151HO00698 | 51  | 38   | 1528 | 135 | 99     | 2.90 | 5.0 | 96  | 2.4  | 0.3          | 0.42  | 99  | 1.67  | -1.76 | -1.18 | 2570 |
| 140  | DE-SU SANDERSON 12923-ET    | TR TP  | 100   | NA   | 7HO12830   | 61  | 42   | 2147 | 132 | 96     | 2.78 | 3.8 | 90  | 0.9  | -0.5         | 0.52  | 93  | 0.57  | -0.39 | 0.12  | 2568 |

## Top 200 TPI Bulls December 2020

(Semen status is Active and Foreign with a minimum of 80% traditional US reliability OR 85% genomic reliability for production and type)

HOLSTEIN ASSOCIATION USA, INC 2020

| Rank | Name                        |       | % RHA | NAAB | PRODUCTION |     |      |      |     | HEALTH |      |      |     |      | CONFORMATION |       |     |       |       | TPI   |      |
|------|-----------------------------|-------|-------|------|------------|-----|------|------|-----|--------|------|------|-----|------|--------------|-------|-----|-------|-------|-------|------|
|      |                             |       |       |      | Pro        | Fat | MILK | fe   | %R  | SCS    | PL   | %R   | LIV | FI   | PTAT         | %R    | UDC | FLC   | BWC   |       |      |
| 141  | MELARRY ALTAFLACCO-ET       | TR TP | 99    | I    | 11HO11750  | 37  | 81   | 751  | 179 | 98     | 2.62 | 3.7  | 89  | 1.8  | -1.0         | -0.43 | 89  | 0.00  | -0.69 | -0.59 | 2568 |
| 142  | S-S-I SNOWMAN MAYFLOWER-ET  | TR TP | 100   | NA   | 7HO11621   | 67  | 36   | 2246 | 132 | 99     | 2.89 | 3.7  | 99  | 1.8  | 0.7          | 0.20  | 98  | -0.07 | 0.55  | 0.19  | 2568 |
| 143  | WELCOME-TEL BRENNAN 3158-ET | TR TP | 99    | I    | 7HO12999   | 30  | 54   | 772  | 115 | 96     | 2.96 | 3.0  | 87  | 0.1  | -0.1         | 1.58  | 93  | 1.55  | 0.82  | 0.33  | 2566 |
| 144  | WELCOME PROFIT MERIADOC     | TR TP | 99    | I    | 7HO12962   | 28  | 53   | 304  | 136 | 93     | 2.83 | 3.6  | 86  | 1.4  | 0.5          | 0.22  | 91  | 1.62  | 0.17  | -1.08 | 2564 |
| 145  | EDG BOB CYPRUS 15120-ET     | TC TY | 99    | I    | 151HO00742 | 32  | 56   | 289  | 119 | 97     | 2.82 | 1.1  | 89  | -1.0 | 2.4          | 1.25  | 95  | 0.95  | -0.71 | 1.32  | 2563 |
| 146  | CO-OP RB BYNT ALABI         | TR TP | 100   | NA   | 1HO12434   | 29  | 21   | 796  | 67  | 95     | 2.72 | 7.0  | 88  | 5.8  | 3.4          | 0.64  | 88  | 0.73  | 0.62  | 0.18  | 2560 |
| 147  | MR DDS RUBI-HAZE 54682-ET   | TC TY | 100   | NA   | 151HO03206 | 24  | 52   | 241  | 109 | 93     | 2.75 | 4.4  | 83  | 2.3  | 0.5          | 1.27  | 91  | 0.57  | 0.84  | 0.50  | 2558 |
| 148  | S-S-I MIDGARD MIGUEL-ET     | TR TP | 100   | NA   | 7HO13568   | 54  | 72   | 1386 | 199 | 95     | 3.01 | 3.4  | 87  | -0.6 | -1.0         | 0.02  | 89  | -0.42 | 0.10  | -1.70 | 2558 |
| 149  | CLEAR-ECHO MANOLO 614-ET    | TR TP | 99    | I    | 250HO12856 | 39  | 46   | 1737 | 114 | 93     | 2.75 | 3.1  | 86  | 0.3  | 0.1          | 1.02  | 91  | 1.22  | -0.01 | -0.62 | 2554 |
| 150  | HIGHERRANSOM AZOR-ET        | TR TP | 100   | NA   | 7HO12605   | 39  | 39   | 1284 | 116 | 99     | 3.00 | 3.4  | 92  | -1.2 | 2.1          | 0.53  | 97  | 1.87  | -0.73 | -0.91 | 2554 |
| 151  | MR KB NIGHTTIME 166-ET      | TR TP | 99    | I    | 151HO03236 | 39  | 37   | 852  | 101 | 94     | 2.79 | 1.3  | 84  | -0.7 | 0.6          | 1.65  | 87  | 1.45  | 0.87  | 0.74  | 2554 |
| 152  | CO-OP RENEGADE-ET           | TR TP | 99    | I    | 1HO11863   | 25  | 64   | 662  | 122 | 99     | 3.04 | -0.3 | 97  | -1.6 | 0.9          | 1.88  | 97  | 1.17  | 2.02  | 0.38  | 2552 |
| 153  | STANTONS ALLIGATOR-ET       | TR TP | 99    | I    | 200HO10593 | 29  | 47   | 973  | 89  | 95     | 2.85 | -0.1 | 86  | -3.8 | -0.2         | 2.78  | 87  | 2.32  | 1.24  | 1.13  | 2551 |
| 154  | LADYS-MANOR SP OAK GROWL-ET | TR TC | 99    | I    | 29HO18250  | 45  | 38   | 1545 | 120 | 99     | 3.25 | 3.5  | 89  | 0.9  | 1.5          | 0.26  | 95  | 1.42  | 0.94  | -0.89 | 2550 |
| 155  | PEAK ALTARECOIL-ET          | TR TP | 99    | I    | 11HO11736  | 48  | 14   | 1191 | 106 | 98     | 2.98 | 3.9  | 89  | -0.4 | 1.9          | 0.76  | 93  | 1.40  | 1.37  | -1.56 | 2550 |
| 156  | ST GEN RUBI-FIRE 61432-ET   | TC TY | 100   | NA   | 551HO03253 | 25  | 63   | 308  | 137 | 92     | 2.84 | 3.0  | 83  | 1.9  | -0.7         | 1.04  | 87  | 1.23  | 0.47  | -0.38 | 2548 |
| 157  | BOLDI V ARMOUR-ET           | TR TP | 99    | I    | 777HO10259 | 27  | 53   | 523  | 100 | 98     | 2.60 | 3.2  | 93  | 0.6  | 1.7          | 0.83  | 95  | 0.21  | 0.44  | 1.34  | 2547 |
| 158  | SEAGULL-BAY-MJ APPLEJAX-ET  | TC TY | 99    | I    | 29HO18158  | 32  | 30   | 465  | 91  | 93     | 2.75 | 4.1  | 90  | 1.1  | 3.3          | 0.43  | 93  | 0.66  | 0.09  | 0.20  | 2547 |
| 159  | TOG RADIANT 1148-ET         | TR TP | 100   | NA   | 7HO12881   | 21  | 40   | 627  | 68  | 94     | 2.67 | 3.4  | 87  | -1.5 | 2.0          | 0.94  | 89  | 1.65  | 0.60  | 1.35  | 2547 |
| 160  | S-S-I MONTROSS PREMIUM-ET   | TR TP | 100   | NA   | 7HO13262   | 40  | 73   | 1095 | 149 | 99     | 2.91 | 0.4  | 95  | -5.3 | -1.0         | 1.68  | 97  | 1.31  | 0.65  | 0.81  | 2546 |
| 161  | MR REF DYNAMITE 54400-ET    | TC TY | 99    | I    | 203HO03281 | 57  | 37   | 1390 | 138 | 97     | 2.86 | 5.1  | 87  | 2.8  | -0.1         | 0.23  | 88  | 0.23  | 0.11  | -0.40 | 2545 |
| 162  | ST GEN DELTA-ETA 67481-ET   | TC TY | 99    | I    | 551HO03268 | 12  | 44   | -236 | 102 | 94     | 2.83 | 4.5  | 84  | 1.3  | 0.7          | 1.05  | 87  | 2.21  | 1.11  | -0.92 | 2544 |
| 163  | S-S-I AICON ASHTON-ET       | TR TP | 99    | I    | 7HO13473   | 55  | 60   | 1468 | 157 | 99     | 2.93 | 1.6  | 90  | -1.3 | -2.0         | 1.05  | 96  | 0.21  | 1.03  | 0.36  | 2543 |
| 164  | S-S-I MONTROSS JEDI-ET      | TR TP | 99    | I    | 7HO13250   | 69  | 16   | 2160 | 101 | 99     | 2.81 | 5.5  | 98  | -0.8 | 0.9          | 0.71  | 99  | 0.88  | -1.42 | 0.72  | 2543 |
| 165  | EILDON-TWEED SSR BELAIR-ET  | TR TP | 99    | I    | 14HO07418  | 35  | 64   | 571  | 138 | 99     | 3.15 | 2.1  | 96  | 0.2  | -1.1         | 1.44  | 96  | 1.27  | 1.33  | 0.72  | 2542 |
| 166  | LARCREST COMMEND-ET         | TC TY | 99    | I    | 29HO17785  | 21  | 59   | -900 | 144 | 97     | 2.81 | 2.9  | 90  | 2.1  | 1.5          | 0.19  | 93  | 0.52  | 0.49  | -0.22 | 2542 |
| 167  | MAPEL WOOD BREWMMASTER-ET   | TR TP | 100   | NA   | 250HO01009 | 24  | 92   | 666  | 166 | 99     | 2.83 | 0.4  | 98  | -1.3 | -0.3         | 0.83  | 98  | -0.06 | 0.55  | -0.04 | 2542 |
| 168  | S-S-I SUPERSIRE TETRIS-ET   | TR TP | 99    | I    | 7HO11985   | 48  | 71   | 1808 | 165 | 99     | 2.87 | 2.9  | 97  | 0.1  | -0.4         | 0.13  | 96  | 0.02  | -0.74 | -0.61 | 2540 |
| 169  | WESTENRADE ALTASPRING-ET    | TR TP | 99    | I    | 11HO11437  | 34  | 56   | 650  | 130 | 99     | 3.07 | 1.4  | 98  | -2.2 | -0.6         | 1.38  | 99  | 2.23  | 0.83  | 0.17  | 2540 |
| 170  | S-S-I EPIC MIDNIGHT-ET      | TR TP | 100   | NA   | 7HO11946   | 39  | 39   | 893  | 118 | 99     | 2.80 | 4.5  | 99  | 2.7  | 1.7          | -0.11 | 98  | 0.77  | -0.06 | -0.48 | 2539 |
| 171  | SANDY-VALLEY CENTER         | TR TP | 100   | NA   | 200HO10522 | 30  | 78   | 681  | 148 | 93     | 2.85 | 2.5  | 84  | 1.8  | -0.8         | 0.64  | 91  | 0.47  | -0.27 | 0.60  | 2536 |
| 172  | MR DREARY XY-ET             | TC TY | 100   | NA   | 513HO00016 | 32  | 76   | 333  | 162 | 99     | 3.00 | 3.7  | 90  | 3.0  | 1.7          | -0.46 | 87  | -0.46 | -0.89 | 0.12  | 2535 |
| 173  | S-S-I HEINZ VIKING-ET       | TR TP | 99    | I    | 7HO13563   | 36  | 45   | 1038 | 103 | 94     | 2.82 | 3.9  | 87  | -0.3 | 1.7          | 0.40  | 89  | 0.14  | 0.89  | 0.72  | 2533 |
| 174  | DE-SU 11228 TOPSY-ET        | TR TC | 99    | I    | 29HO16667  | 52  | 61   | 1150 | 156 | 99     | 2.84 | 1.2  | 98  | -0.9 | -1.8         | 0.91  | 97  | 0.59  | 0.10  | 0.55  | 2532 |
| 175  | VIEW-HOME DADDY MEXICO-ET   | TY TV | 100   | NA   | 147HO02464 | 48  | 51   | 1948 | 139 | 96     | 2.99 | 2.7  | 91  | 0.8  | -1.4         | 1.33  | 92  | 0.94  | 0.14  | -1.01 | 2531 |

## Top 200 TPI Bulls December 2020

(Semen status is Active and Foreign with a minimum of 80% traditional US reliability OR 85% genomic reliability for production and type)

HOLSTEIN ASSOCIATION USA, INC 2020

| Rank | Name                        |       | % RHA | NAAB | PRODUCTION |     |      |      |     | HEALTH |      |     |     |      | CONFORMATION |       |     |       |       |       |      |
|------|-----------------------------|-------|-------|------|------------|-----|------|------|-----|--------|------|-----|-----|------|--------------|-------|-----|-------|-------|-------|------|
|      |                             |       |       |      | Pro        | Fat | MILK | fe   | %R  | SCS    | PL   | %R  | LIV | FI   | PTAT         | %R    | UDC | FLC   | BWC   | TPI   |      |
| 176  | MR MOGUL DRAMA 1435-ET      | TC TY | 100   | NA   | 151HO00695 | 51  | 48   | 1848 | 148 | 99     | 2.97 | 3.6 | 95  | -0.3 | -1.9         | 0.77  | 95  | 1.43  | 0.63  | -1.50 | 2530 |
| 177  | ENDCO THE ANSWER-PO-ET      | TR PC | 100   | NA   | 534HO00056 | 54  | 65   | 1845 | 160 | 98     | 3.23 | 1.4 | 88  | -2.3 | -0.6         | 0.97  | 93  | 0.85  | -0.01 | -0.06 | 2528 |
| 178  | MR MOGUL DION 15008-ET      | TC TY | 100   | NA   | 203HO01470 | 34  | 47   | 316  | 146 | 99     | 2.65 | 3.7 | 97  | 1.4  | 0.5          | -0.06 | 95  | 0.87  | -0.22 | -1.71 | 2528 |
| 179  | RI-VAL-RE RAGER-RED-ET      | TP TC | 99    | I    | 7HO12344   | 31  | 47   | 655  | 101 | 99     | 2.87 | 5.0 | 97  | 1.8  | 0.0          | 1.45  | 98  | 0.51  | 1.17  | 1.02  | 2527 |
| 180  | DG CHARLEY                  | TR TC | 99    | I    | 29HO17500  | 45  | 32   | 1455 | 111 | 98     | 2.77 | 4.3 | 91  | -0.6 | 0.9          | 0.58  | 96  | 0.65  | 0.21  | -0.68 | 2527 |
| 181  | EDG RUBI-ASP                | RC TC | 99    | I    | 151HO03205 | 17  | 55   | -203 | 95  | 90     | 2.73 | 3.5 | 81  | 0.6  | -0.2         | 1.24  | 87  | 0.90  | 1.75  | 1.65  | 2526 |
| 182  | S-S-I ULMER URIAH-ET        | TR TP | 99    | I    | 7HO13378   | 15  | 58   | 137  | 107 | 96     | 2.86 | 2.3 | 88  | 0.9  | 0.7          | 1.12  | 90  | 1.66  | 0.08  | 0.19  | 2526 |
| 183  | RICHMOND-FD EL BOMBERO-ET   | TR TP | 100   | NA   | 777HO03950 | 27  | 49   | 1126 | 87  | 99     | 2.61 | 3.6 | 99  | 1.6  | 0.3          | 1.14  | 99  | 0.95  | -0.16 | 1.00  | 2524 |
| 184  | SPRUCE-HAVEN STOIC-ET       | TP TC | 99    | I    | 1HO11048   | 53  | 22   | 1390 | 108 | 99     | 2.78 | 3.8 | 99  | 1.2  | -1.1         | 1.11  | 98  | 1.61  | 0.94  | -0.32 | 2523 |
| 185  | VIEW-HOME DAY MISSOURI-ET   | TC TY | 100   | NA   | 147HO02462 | 49  | 35   | 1927 | 119 | 99     | 2.76 | 3.4 | 95  | 0.0  | -0.4         | 0.57  | 97  | 0.98  | 0.45  | -1.14 | 2522 |
| 186  | ENDCO SUPERHERO-ET          | TR TP | 99    | I    | 534HO00052 | 27  | 36   | 479  | 80  | 99     | 2.74 | 4.4 | 91  | 1.3  | 1.5          | 1.04  | 97  | 1.23  | -0.23 | 1.08  | 2520 |
| 187  | WESTCOAST LIGHTHOUSE-ET     | TR TP | 99    | I    | 777HO10757 | 17  | 31   | 384  | 59  | 95     | 2.77 | 3.6 | 87  | 0.3  | 1.6          | 1.52  | 89  | 2.48  | 0.45  | 0.82  | 2520 |
| 188  | ABS DANNER-P-ET             | PC TC | 99    | I    | 29HO18066  | 55  | 46   | 1331 | 141 | 97     | 2.90 | 1.6 | 88  | -1.4 | 0.8          | 0.21  | 90  | 0.52  | -0.61 | 0.20  | 2517 |
| 189  | MR GENOSOURCE TROY MADALYON | TR TP | 99    | I    | 551HO03380 | 47  | 39   | 1392 | 124 | 95     | 2.97 | 3.8 | 87  | -1.7 | 1.2          | 0.22  | 88  | 0.62  | -0.01 | -0.51 | 2515 |
| 190  | MR NOM DECKER 54304-ET      | TC TY | 99    | I    | 151HO03142 | 50  | 48   | 1176 | 157 | 99     | 2.79 | 4.8 | 89  | 2.7  | 1.2          | -0.61 | 97  | -0.09 | -1.44 | -1.36 | 2515 |
| 191  | S-S-I TOPGUN PEDRO-ET       | TR TP | 100   | NA   | 7HO13597   | 57  | 77   | 2225 | 195 | 93     | 2.96 | 1.6 | 85  | -1.8 | -3.8         | 0.75  | 87  | 0.87  | -0.56 | -1.63 | 2515 |
| 192  | MR DAY DEARING 1445-ET      | TC TY | 100   | NA   | 203HO01469 | 44  | 40   | 1240 | 141 | 99     | 3.10 | 3.8 | 96  | 3.0  | -0.2         | 0.45  | 97  | 0.92  | 0.31  | -2.03 | 2514 |
| 193  | MR MEGA-DUKE 54608-ET       | TC TY | 100   | NA   | 151HO03127 | 48  | 55   | 1432 | 153 | 99     | 3.02 | 2.8 | 90  | 0.6  | 0.1          | 0.64  | 95  | 0.42  | -0.71 | -0.92 | 2514 |
| 194  | DG ALBERO ELDORADO          | TY TV | 100   | NA   | 307HO00005 | 52  | 61   | 1517 | 154 | 97     | 3.08 | 2.6 | 89  | -1.0 | -1.1         | 0.81  | 92  | 0.39  | 0.30  | 0.20  | 2512 |
| 195  | SANDY-VALLEY J PHARO-ET     | TR TP | 99    | I    | 250HO12975 | 31  | 27   | 715  | 63  | 97     | 2.68 | 3.6 | 88  | -1.4 | 0.5          | 2.26  | 93  | 2.09  | -0.28 | 1.65  | 2510 |
| 196  | SEAGULL-BAY SLVR KIMBALL-ET | RC TC | 100   | NA   | 29HO18073  | 11  | 41   | -201 | 78  | 98     | 2.85 | 3.3 | 91  | 0.2  | 1.1          | 1.18  | 96  | 2.39  | 0.84  | 0.43  | 2510 |
| 197  | SIEMERS KINGBOY R-PRETTY-ET | TR TP | 99    | I    | 566HO01239 | 8   | 53   | -467 | 84  | 89     | 2.71 | 1.0 | 82  | -0.7 | 3.0          | 1.35  | 86  | 1.01  | -0.11 | 1.31  | 2509 |
| 198  | BOMAZ HAYES-P-ET            | PC TC | 99    | I    | 29HO18078  | 32  | 63   | 1301 | 115 | 97     | 2.71 | 3.0 | 88  | 1.8  | 0.5          | 0.29  | 91  | 0.54  | -0.90 | 0.89  | 2508 |
| 199  | WELCOME TROY CHASSY-ET      | TR TP | 99    | I    | 1HO11677   | 53  | 33   | 1723 | 122 | 98     | 2.89 | 2.9 | 90  | -1.3 | 0.1          | 0.87  | 92  | 0.54  | 0.26  | -0.67 | 2507 |
| 200  | CO-OP ROBUST CABRIOLET-ET   | TP TC | 99    | I    | 1HO10396   | 34  | 73   | 469  | 187 | 99     | 3.01 | 3.3 | 99  | 3.2  | -0.6         | -0.77 | 98  | -0.06 | 0.21  | -2.16 | 2506 |