



OFFICIAL HOLSTEIN PEDIGREE

Holstein Association USA, Inc.

99% Registered Holsteins

GENOSOURCE DWINDLE-ET
840003216669907 99%RHA-I TC TY TV TL TD
PTA +1546M +497F
PTA +1045NM +1.13%F
PTA +6.0PL 2.80SCS
PTA +1.38T -1.37UDC
PTA +280FE -0.2FI 2.44SCS

PROGENESIS POSITIVE
CAN 12609140 100%RHA-NA TR TP TY TV TL TD
GM 8/21
PTA +1315M +108F
PTA +803NM +1.20%F
PTA +3.7PL 2.94SCS
PTA +1.28T +1.53UDC

ENDCO EXACTA-ET
840003134835577 99%RHA-I TR TP TY TV TL TD
GM 8/21
PTA +847M +73F
PTA +803NM +1.4%F
PTA +4.1PL 2.90SCS
PTA +1.40T +1.12UDC

PEAK AUSTAD-ET
840003200824958 99%RHA-I TR TP TY TV TL TD
GM 8/21
PTA +1174M +102F
PTA +912NM +1.19%F
PTA +4.0PL 2.94SCS
PTA +1.46T -1.43UDC
PTA +277FE -1.2FI 2.28SCS

GENOSOURCE DAWN 41694-ET
840003148918994 99%RHA-I TR TP TY TV TL TD
GM 8/21
PTA +996M +77F
PTA +930NM +1.13%F
PTA +6.2PL 2.68SCS
PTA +7.6T +1.45UDC
PTA +212FE -1.4FI 2.38SCS

MS DELICIOUS RUB 73358-ET
840003132198386 100%RHA-NA TR TP TY TV TL TD
GM 8/21
PTA +1148M +74F
PTA +836NM +1.0%F
PTA +5.1PL 3.01SCS
PTA +8.3T +1.23UDC
PTA +3.09 3.28 3.34 3.37 3.40 3.43 3.46 3.49 3.52 3.55 3.58 3.61 3.64 3.67 3.70 3.73 3.76 3.79 3.82 3.85 3.88 3.91 3.94 3.97 4.00 4.03 4.06 4.09 4.12 4.15 4.18 4.21 4.24 4.27 4.30 4.33 4.36 4.39 4.42 4.45 4.48 4.51 4.54 4.57 4.60 4.63 4.66 4.69 4.72 4.75 4.78 4.81 4.84 4.87 4.90 4.93 4.96 4.99 5.02 5.05 5.08 5.11 5.14 5.17 5.20 5.23 5.26 5.29 5.32 5.35 5.38 5.41 5.44 5.47 5.50 5.53 5.56 5.59 5.62 5.65 5.68 5.71 5.74 5.77 5.80 5.83 5.86 5.89 5.92 5.95 5.98 6.01 6.04 6.07 6.10 6.13 6.16 6.19 6.22 6.25 6.28 6.31 6.34 6.37 6.40 6.43 6.46 6.49 6.52 6.55 6.58 6.61 6.64 6.67 6.70 6.73 6.76 6.79 6.82 6.85 6.88 6.91 6.94 6.97 7.00 7.03 7.06 7.09 7.12 7.15 7.18 7.21 7.24 7.27 7.30 7.33 7.36 7.39 7.42 7.45 7.48 7.51 7.54 7.57 7.60 7.63 7.66 7.69 7.72 7.75 7.78 7.81 7.84 7.87 7.90 7.93 7.96 7.99 8.02 8.05 8.08 8.11 8.14 8.17 8.20 8.23 8.26 8.29 8.32 8.35 8.38 8.41 8.44 8.47 8.50 8.53 8.56 8.59 8.62 8.65 8.68 8.71 8.74 8.77 8.80 8.83 8.86 8.89 8.92 8.95 8.98 9.01 9.04 9.07 9.10 9.13 9.16 9.19 9.22 9.25 9.28 9.31 9.34 9.37 9.40 9.43 9.46 9.49 9.52 9.55 9.58 9.61 9.64 9.67 9.70 9.73 9.76 9.79 9.82 9.85 9.88 9.91 9.94 9.97 10.00 10.03 10.06 10.09 10.12 10.15 10.18 10.21 10.24 10.27 10.30 10.33 10.36 10.39 10.42 10.45 10.48 10.51 10.54 10.57 10.60 10.63 10.66 10.69 10.72 10.75 10.78 10.81 10.84 10.87 10.90 10.93 10.96 10.99 11.02 11.05 11.08 11.11 11.14 11.17 11.20 11.23 11.26 11.29 11.32 11.35 11.38 11.41 11.44 11.47 11.50 11.53 11.56 11.59 11.62 11.65 11.68 11.71 11.74 11.77 11.80 11.83 11.86 11.89 11.92 11.95 11.98 12.01 12.04 12.07 12.10 12.13 12.16 12.19 12.22 12.25 12.28 12.31 12.34 12.37 12.40 12.43 12.46 12.49 12.52 12.55 12.58 12.61 12.64 12.67 12.70 12.73 12.76 12.79 12.82 12.85 12.88 12.91 12.94 12.97 13.00 13.03 13.06 13.09 13.12 13.15 13.18 13.21 13.24 13.27 13.30 13.33 13.36 13.39 13.42 13.45 13.48 13.51 13.54 13.57 13.60 13.63 13.66 13.69 13.72 13.75 13.78 13.81 13.84 13.87 13.90 13.93 13.96 13.99 14.02 14.05 14.08 14.11 14.14 14.17 14.20 14.23 14.26 14.29 14.32 14.35 14.38 14.41 14.44 14.47 14.50 14.53 14.56 14.59 14.62 14.65 14.68 14.71 14.74 14.77 14.80 14.83 14.86 14.89 14.92 14.95 14.98 15.01 15.04 15.07 15.10 15.13 15.16 15.19 15.22 15.25 15.28 15.31 15.34 15.37 15.40 15.43 15.46 15.49 15.52 15.55 15.58 15.61 15.64 15.67 15.70 15.73 15.76 15.79 15.82 15.85 15.88 15.91 15.94 15.97 16.00 16.03 16.06 16.09 16.12 16.15 16.18 16.21 16.24 16.27 16.30 16.33 16.36 16.39 16.42 16.45 16.48 16.51 16.54 16.57 16.60 16.63 16.66 16.69 16.72 16.75 16.78 16.81 16.84 16.87 16.90 16.93 16.96 16.99 17.02 17.05 17.08 17.11 17.14 17.17 17.20 17.23 17.26 17.29 17.32 17.35 17.38 17.41 17.44 17.47 17.50 17.53 17.56 17.59 17.62 17.65 17.68 17.71 17.74 17.77 17.80 17.83 17.86 17.89 17.92 17.95 17.98 18.01 18.04 18.07 18.10 18.13 18.16 18.19 18.22 18.25 18.28 18.31 18.34 18.37 18.40 18.43 18.46 18.49 18.52 18.55 18.58 18.61 18.64 18.67 18.70 18.73 18.76 18.79 18.82 18.85 18.88 18.91 18.94 18.97 19.00 19.03 19.06 19.09 19.12 19.15 19.18 19.21 19.24 19.27 19.30 19.33 19.36 19.39 19.42 19.45 19.48 19.51 19.54 19.57 19.60 19.63 19.66 19.69 19.72 19.75 19.78 19.81 19.84 19.87 19.90 19.93 19.96 19.99 20.02 20.05 20.08 20.11 20.14 20.17 20.20 20.23 20.26 20.29 20.32 20.35 20.38 20.41 20.44 20.47 20.50 20.53 20.56 20.59 20.62 20.65 20.68 20.71 20.74 20.77 20.80 20.83 20.86 20.89 20.92 20.95 20.98 21.01 21.04 21.07 21.10 21.13 21.16 21.19 21.22 21.25 21.28 21.31 21.34 21.37 21.40 21.43 21.46 21.49 21.52 21.55 21.58 21.61 21.64 21.67 21.70 21.73 21.76 21.79 21.82 21.85 21.88 21.91 21.94 21.97 22.00 22.03 22.06 22.09 22.12 22.15 22.18 22.21 22.24 22.27 22.30 22.33 22.36 22.39 22.42 22.45 22.48 22.51 22.54 22.57 22.60 22.63 22.66 22.69 22.72 22.75 22.78 22.81 22.84 22.87 22.90 22.93 22.96 22.99 23.02 23.05 23.08 23.11 23.14 23.17 23.20 23.23 23.26 23.29 23.32 23.35 23.38 23.41 23.44 23.47 23.50 23.53 23.56 23.59 23.62 23.65 23.68 23.71 23.74 23.77 23.80 23.83 23.86 23.89 23.92 23.95 23.98 24.01 24.04 24.07 24.10 24.13 24.16 24.19 24.22 24.25 24.28 24.31 24.34 24.37 24.40 24.43 24.46 24.49 24.52 24.55 24.58 24.61 24.64 24.67 24.70 24.73 24.76 24.79 24.82 24.85 24.88 24.91 24.94 24.97 25.00 25.03 25.06 25.09 25.12 25.15 25.18 25.21 25.24 25.27 25.30 25.33 25.36 25.39 25.42 25.45 25.48 25.51 25.54 25.57 25.60 25.63 25.66 25.69 25.72 25.75 25.78 25.81 25.84 25.87 25.90 25.93 25.96 25.99 26.02 26.05 26.08 26.11 26.14 26.17 26.20 26.23 26.26 26.29 26.32 26.35 26.38 26.41 26.44 26.47 26.50 26.53 26.56 26.59 26.62 26.65 26.68 26.71 26.74 26.77 26.80 26.83 26.86 26.89 26.92 26.95 26.98 27.01 27.04 27.07 27.10 27.13 27.16 27.19 27.22 27.25 27.28 27.31 27.34 27.37 27.40 27.43 27.46 27.49 27.52 27.55 27.58 27.61 27.64 27.67 27.70 27.73 27.76 27.79 27.82 27.85 27.88 27.91 27.94 27.97 28.00 28.03 28.06 28.09 28.12 28.15 28.18 28.21 28.24 28.27 28.30 28.33 28.36 28.39 28.42 28.45 28.48 28.51 28.54 28.57 28.60 28.63 28.66 28.69 28.72 28.75 28.78 28.81 28.84 28.87 28.90 28.93 28.96 28.99 29.02 29.05 29.08 29.11 29.14 29.17 29.20 29.23 29.26 29.29 29.32 29.35 29.38 29.41 29.44 29.47 29.50 29.53 29.56 29.59 29.62 29.65 29.68 29.71 29.74 29.77 29.80 29.83 29.86 29.89 29.92 29.95 29.98 30.01 30.04 30.07 30.10 30.13 30.16 30.19 30.22 30.25 30.28 30.31 30.34 30.37 30.40 30.43 30.46 30.49 30.52 30.55 30.58 30.61 30.64 30.67 30.70 30.73 30.76 30.79 30.82 30.85 30.88 30.91 30.94 30.97 31.00 31.03 31.06 31.09 31.12 31.15 31.18 31.21 31.24 31.27 31.30 31.33 31.36 31.39 31.42 31.45 31.48 31.51 31.54 31.57 31.60 31.63 31.66 31.69 31.72 31.75 31.78 31.81 31.84 31.87 31.90 31.93 31.96 31.99 32.02 32.05 32.08 32.11 32.14 32.17 32.20 32.23 32.26 32.29 32.32 32.35 32.38 32.41 32.44 32.47 32.50 32.53 32.56 32.59 32.62 32.65 32.68 32.71 32.74 32.77 32.80 32.83 32.86 32.89 32.92 32.95 32.98 33.01 33.04 33.07 33.10 33.13 33.16 33.19 33.22 33.25 33.28 33.31 33.34 33.37 33.40 33.43 33.46 33.49 33.52 33.55 33.58 33.61 33.64 33.67 33.70 33.73 33.76 33.79 33.82 33.85 33.88 33.91 33.94 33.97 34.00 34.03 34.06 34.09 34.12 34.15 34.18 34.21 34.24 34.27 34.30 34.33 34.36 34.39 34.42 34.45 34.48 34.51 34.54 34.57 34.60 34.63 34.66 34.69 34.72 34.75 34.78 34.81 34.84 34.87 34.90 34.93 34.96 34.99 35.02 35.05 35.08 35.11 35.14 35.17 35.20 35.23 35.26 35.29 35.32 35.35 35.38 35.41 35.44 35.47 35.50 35.53 35.56 35.59 35.62 35.65 35.68 35.71 35.74 35.77 35.80 35.83 35.86 35.89 35.92 35.95 35.98 36.01 36.04 36.07 36.10 36.13 36.16 36.19 36.22 36.25 36.28 36.31 36.34 36.37 36.40 36.43 36.46 36.49 36.52 36.55 36.58 36.61 36.64 36.67 36.70 36.73 36.76 36.79 36.82 36.85 36.88 36.91 36.94 36.97 37.00 37.03 37.06 37.09 37.12 37.15 37.18 37.21 37.24 37.27 37.30 37.33 37.36 37.39 37.42 37.45 37.48 37.51 37.54 37.57 37.60 37.63 37.66 37.69 37.72 37.75 37.78 37.81 37.84 37.87 37.90 37.93 37.96 37.99 38.02 38.05 38.08 38.11 38.14 38.17 38.20 38.23 38.26 38.29 38.32 38.35 38.38 38.41 38.44 38.47 38.50 38.53 38.56 38.59 38.62 38.65 38.68 38.71 38.74 38.77 38.80 38.83 38.86 38.89 38.92 38.95 38.98 39.01 39.04 39.07 39.10 39.13 39.16 39.19 39.22 39.25 39.28 39.31 39.34 39.37 39.40 39.43 39.46 39.49 39.52 39.55 39.58 39.61 39.64 39.67 39.70 39.73 39.76 39.79 39.82 39.85 39.88 39.91 39.94 39.97 40.00 40.03 40.06 40.09 40.12 40.15 40.18 40.21 40.24 40.27 40.30 40.33 40.36 40.39 40.42 40.45 40.48 40.51 40.54 40.57 40.60 40.63 40.66 40.69 40.72 40.75 40.78 40.81 40.84 40.87 40.90 40.93 40.96 40.99 41.02 41.05 41.08 41.11 41.14 41.17 41.20 41.23 41.26 41.29 41.32 41.35 41.38 41.41 41.44 41.47 41.50 41.53 41.56 41.59 41.62 41.65 41.68 41.71 41.74 41.77 41.80 41.83 41.86 41.89 41.92 41.95 41.98 42.01 42.04 42.07 42.10 42.13 42.16 42.19 42.22 42.25 42.28 42.31 42.34 42.37 42.40 42.43 42.46 42.49 42.52 42.55 42.58 42.61 42.64 42.67 42.70 42.73 42.76 42.79 42.82 42.85 42.88 42.91 42.94 42.97 43.00 43.03 43.06 43.09 43.12 43.15 43.18 43.21 43.24 43.27 43.30 43.33 43.36 43.39 43.42 43.45 43.48 43.51 43.54 43.57 43.60 43.63 43.66 43.69 43.72 43.75 43.78 43.81 43.84 43.87 43.90 43.93 43.96 43.99 44.02 44.05 44.08 44.11 44.14 44.17 44.20 44.23 44.26 44.29 44.32 44.35 44.38 44.41 44.44 44.47 44.50 44.53 44.56 44.59 44.62 44.65 44.68 44.71 44.74 44.77 44.80 44.83 44.86 44.89 44.92 44.95 44.98 45.01 45.04 45.07 45.10 45.13 45.16 45.19 45.22 45.25 45.28 45.31 45.34 45.37 45.40 45.43 45.46 45.49 45.52 45.55 45.58 45.61 45.64 45.67 45.70 45.73 45.76 45.79 45.82 45.85 45.88 45.91 45.94 45.97 46.00 46.03 46.06 46.09 46.12 46.15 46.18 46.21 46.24 46.27 46.30 46.33 46.36 46.39 46.42 46.45 46.48 46.51 46.54 46.57 46.60 46.63 46.66 46.69 46.72 46.75 46.78 46.81 46.84 46.87 46.90 46.93 46.96 46.99 47.02 47.05 47.08 47.11 47.14 47.17 47.20 47.23 47.26 47.29 47.32 47.35 47.38 47.41 47.44 47.47 47.50 47.53 47.56 47.59 47.62 47.65 47.68 47.71 47.74 47.77 47.80 47.83 47.86 47.89 47.92 47.95 47.98 48.01 48.04 48.07 48.10 48.13 48.16 48.19 48.22 48.25 48.28 48.31 48.34 48.37 48.40 48.43 48.46 48.49 48.52 48.55 48.58 48.61 48.64 48.67 48.70 48.73 48.76 48.79 48.82 48.85 48.88 48.91 48.94 48.97 49.00 49.03 49.06 49.09 49.12 49.15 49.18 49.21 49.24 49.27 49.30 49.33 49.36 49.39 49.42 49.45 49.48 49.51 49.54 49.57 49.60 49.63 49.66 49.69 49.72 49.75 49.78 49.81 49.84 49.87 49.90 49.93 49.96 49.99 50.02 50.05 50.08 50.11 50.14 50.17 50.20 50.23 50.26 50.29 50.32 50.35 50.38 50.41 50.44 50.47 50.50 50.53 50.56 50.59 50.62 50.65 50.68 50.71 50.74 50.77 50.80 50.83 50.86 50.89 50.92 50.95 50.98 51.01 51.04 51.07 51.10 51.13 51.16 51.19 51.22 51.25 51.28 51.31 51.34 51.37 51.40 51.43 51.46 51.49 51.52 51.55 51.58 51.61 51.64 51.67 51.70 51.73 51.76 51.79 51.82 51.85 51.88 51.91 51.94 51.97 52.00 52.03 52.06 52.09 52.12 52.15 52.18 52.21 52.24 52.27 52.30 52.33 52.36 52.39 52.42 52.45 52.48 52.51 52.54 52.57 52.60 52.63 52.66 52.69 52.72 52.75 52.78 52.81 52.84 52.87 52.90 52.93 52.96 52.99 53.02 53.05 53.08 53.11 53.14 53.17 53.20 53.23 53.26 53.29 53.32 53.35 53.38 53.41 53.44 53.47 53.50 53.53 53.56 53.59 53.62 53.65 53.68 53.71 53.74 53.77 53.80 53.83 53.86 53.89 53.92 53.95 53.98 54.01 54.04 54.07 54.10 54.13 54.16 54.19 54.22 54.25 54.28 54.31 54.34 54.37 54.40 54.43 54.46 54.49 54.52 54.55 54.58 54.61 54.64 54.67 54.70 54.73 54.76 54.79 54.82 54.85 54.88 54.91 54.94 54.97 55.00 55.03 55.06 55.09 55.12 55.15 55.18 55.21 55.24 55.27 55.30 55.33 55.36 55.39 55.42 55.45 55.48 55.51 55.54 55.57 55.60 55.63 55.66 55.69 55.72 55.75 55.78 55.81 55.84 55.87 55.90 55.93 55.96 55.99 56.02 56.05 56.08 56.11 56.14 56.17 56.20 56.23 56.26 56.29 56.32 56.35 56.38 56.41 56.44 56.47 56.50 56.53 56.56 56.59 56.62 56.65 56.68 56.71 56.74 56.77 56.80 56.83 56.86 56.89 56.92 56.95 56.98 57.01 57.04 57.07 57.10 57.13 57.16 57.19 57.22 57.25 57.28 57.31 57.34 57.37 57.40 57.43 57.46 57.49 57.52 57.55 57.58 57.61 57.64 57.67 57.70 57.73 57.76 57.79 57.82 57.85 57.88 57.91 57.94 57.97 58.00 58.03 58.06 58.09 58.12 58.15 58.18 58.21 58.24 58.27 58.30 58.33 58.36 58.39 58.42 58.45 58.48 58.51 58.54 58.57 58.60 58.63 58.66 58.69 58.72 58.75 58.78 58.81 58.84 58.87 58.90 58.93 58.96 58.99 59.02 59.05 59.08 59.11 59.14 59.17 59.20 59.23 59.26 59.29 59.32 59.35 59.38 59.41 59.44 59.47 59.50 59.53 59.56 59.59 59.62 59.65 59.68 59.71 59.74 59.77 59.80 59.83 59.86 59.89 59.92 59.95 59.98 60.01 60.04 60.07 60.10 60.13 60.16 60.19 60.22 60.25 60.28 60.31 60.34 60.37 60.40 60.43 60.46 60.49 60.52 60.55 60.58 60.6