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 Conversion Factors For Production Traits. Source: INTERBULL 1812  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = PCORR2\*Foreign Reliability

| breed | country2 | amilk    | bmilk   | afat     | bfat   | aprot    | bprot  | pcorr2 |
|-------|----------|----------|---------|----------|--------|----------|--------|--------|
| JER   | AUS      | 396.30   | 1.2660  | 10.700   | 1.6310 | 11.300   | 1.2810 | 0.5329 |
| JER   | CHE      | -1.88    | 1.6111  | 22.191   | 1.4186 | 8.562    | 1.4737 | 0.7056 |
| JER   | DEU      | 213.86   | 1.0273  | 21.535   | 1.0064 | 11.831   | 0.9315 | 0.7569 |
| JER   | DFS      | -5665.30 | 57.7770 | -151.300 | 2.0560 | -136.200 | 1.5920 | 0.8281 |
| JER   | GBR      | -230.90  | 2.7290  | 5.700    | 2.3220 | -5.300   | 2.7230 | 0.7056 |
| JER   | IRL      | 556.60   | 2.2040  | -14.300  | 3.4080 | 8.600    | 1.7100 | 0.5625 |
| JER   | ITA      | 88.45    | 0.9917  | 14.890   | 0.9378 | 7.734    | 0.8498 | 0.7225 |
| JER   | NLD      | 2218.98  | 0.8390  | 43.862   | 0.9127 | 56.880   | 0.8176 | 0.7744 |
| JER   | NZL      | 567.00   | 1.4420  | 17.800   | 1.3090 | 16.800   | 1.3470 | 0.4761 |
| JER   | USA      | 664.30   | 0.8500  | 19.200   | 0.9450 | 19.100   | 0.8800 | 0.7921 |
| JER   | ZAF      | 251.60   | 1.4610  | 5.900    | 1.6340 | 7.500    | 1.4230 | 0.6889 |

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 Conversion Factors For SCS Traits. Source: INTERBULL 1812  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = SCORR2\*Foreign Reliability

| breed | country2 | a       | b        | scorr2 |
|-------|----------|---------|----------|--------|
| JER   | AUS      | 78.900  | 0.1930   | 0.7744 |
| JER   | CHE      | 54.866  | 0.4720   | 0.7921 |
| JER   | DFS      | 60.300  | 0.4490   | 0.7921 |
| JER   | GBR      | 100.321 | 0.5086   | 0.8100 |
| JER   | NLD      | -47.807 | 1.5360   | 0.7921 |
| JER   | NZL      | 99.700  | -14.1470 | 0.7744 |
| JER   | USA      | 189.000 | -29.4830 | 0.7744 |
| JER   | ZAF      | 100.800 | -0.2730  | 0.7744 |

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 Conversion Factors For Type. Source = INTERBULL MACE 1812  
 Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=AUS

|                   | c | c                      | f |         |        |      |
|-------------------|---|------------------------|---|---------|--------|------|
|                   | a | o                      | o |         | a      | b    |
|                   | n | u                      | r |         | v      | v    |
| b                 | t | n                      | t |         | a      | a    |
| r                 | r | t                      | r |         | l      | l    |
| e                 | a | r                      | a |         | u      | u    |
| e                 | i | y                      | i |         | e      | e    |
| d                 | t | 2                      | t |         |        |      |
| JER CONFORMATION  |   | AUS GENERAL APPEARANCE |   | -64.030 | 0.5735 | 0.30 |
| JER FEET AND LEGS |   | AUS OVERALL FEET & LEG |   | -48.121 | 0.4341 |      |

|                            |                          |          |        |
|----------------------------|--------------------------|----------|--------|
| JER MAMMARY SYSTEM         | AUS OVERALL UDDER SCORE  | -77.677  | 0.7180 |
| JER STATURE                | AUS STATURE              | -100.219 | 0.9500 |
| JER CHEST WIDTH            | AUS CHEST WIDTH          | -94.328  | 0.9539 |
| JER BODY DEPTH             | AUS BODY DEPTH           | -92.263  | 0.9337 |
| JER PIN WIDTH              | AUS PIN WIDTH            | -94.573  | 0.9398 |
| JER RUMP ANGLE             | AUS RUMP ANGLE           | -79.481  | 0.7987 |
| JER FOOT ANGLE             | AUS FOOT ANGLE           | -66.501  | 0.6375 |
| JER REAR LEGS SIDE VIEW    | AUS REAR LEG SET         | -59.912  | 0.6242 |
| JER REAR LEG REAR VIEW     | AUS REAR LEG REAR VIEW   | -40.003  | 0.3469 |
| JER UDDER DEPTH            | AUS UDDER DEPTH          | -97.060  | 0.9231 |
| JER MEDIAN SUSPENSORY      | AUS MEDIAN SUSPENSORY    | -110.330 | 1.1023 |
| JER FORE ATTACHMENT        | AUS FORE UDDER           | -74.342  | 0.6893 |
| JER FRONT TEAT PLACEMENT   | AUS FRONT TEAT PLACEMENT | -96.261  | 0.9511 |
| JER TEAT LENGTH            | AUS TEAT LENGTH          | -88.572  | 0.8779 |
| JER REAR ATTACHMENT HEIGHT | AUS REAR UDDER HEIGHT    | -109.133 | 1.0422 |
| JER REAR TEAT PLACEMENT    | AUS REAR TEAT PLACEMENT  | -107.501 | 1.0789 |
| JER ANGULARITY             | AUS ANGULARITY           | -85.146  | 0.8068 |

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Conversion Factors For Type. Source = INTERBULL MACE 1812  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=CHE

|                            | c                        | c       | f      |      |   |   |
|----------------------------|--------------------------|---------|--------|------|---|---|
|                            | a                        | o       | o      |      |   |   |
|                            | n                        | u       | r      | a    | b | t |
| b                          | t                        | n       | t      | v    | v | c |
| r                          | r                        | t       | r      | a    | a | o |
| e                          | a                        | r       | a      | l    | l | r |
| e                          | i                        | y       | i      | u    | u | r |
| d                          | t                        | 2       | t      | e    | e | 2 |
| JER CONFORMATION           | CHE CONFORMATION         | -79.045 | 0.7634 | 0.79 |   |   |
| JER FEET AND LEGS          | CHE OVERALL FEET & LEG   | -57.097 | 0.5443 |      |   |   |
| JER MAMMARY SYSTEM         | CHE OVERALL UDDER SCORE  | -56.145 | 0.5480 |      |   |   |
| JER STATURE                | CHE STATURE              | -59.999 | 0.5751 |      |   |   |
| JER CHEST WIDTH            | CHE CHEST WIDTH          | -54.128 | 0.5410 |      |   |   |
| JER BODY DEPTH             | CHE BODY DEPTH           | -37.646 | 0.3716 |      |   |   |
| JER PIN WIDTH              | CHE RUMP WIDTH           | -53.375 | 0.5130 |      |   |   |
| JER RUMP ANGLE             | CHE RUMP ANGLE           | -38.942 | 0.4178 |      |   |   |
| JER FOOT ANGLE             | CHE FOOT ANGLE           | -36.881 | 0.3496 |      |   |   |
| JER REAR LEGS SIDE VIEW    | CHE REAR LEG SET         | -54.297 | 0.5623 |      |   |   |
| JER REAR LEG REAR VIEW     | CHE REAR LEG REAR VIEW   | -44.416 | 0.4095 |      |   |   |
| JER UDDER DEPTH            | CHE UDDER DEPTH          | -52.930 | 0.5352 |      |   |   |
| JER MEDIAN SUSPENSORY      | CHE MEDIAN SUSPENSORY    | -58.146 | 0.5795 |      |   |   |
| JER FORE ATTACHMENT        | CHE FORE UDDER           | -46.425 | 0.4509 |      |   |   |
| JER TEAT PLACEMENT         | CHE FRONT TEAT PLACEMENT | -58.785 | 0.5748 |      |   |   |
| JER TEAT LENGTH            | CHE TEAT LENGTH          | -45.239 | 0.4431 |      |   |   |
| JER REAR ATTACHMENT HEIGHT | CHE REAR UDDER HEIGHT    | -55.483 | 0.5433 |      |   |   |
| JER REAR TEAT PLACEMENT    | CHE REAR TEAT PLACEMENT  | -53.779 | 0.5277 |      |   |   |
| JER ANGULARITY             | CHE ANGULARITY           | -60.870 | 0.6279 |      |   |   |

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Conversion Factors For Type. Source = INTERBULL MACE 1812

Converted Canadian Proof = A + (B\* Foreign Proof)  
 Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=DFS

|                            | c                        | c | f |         |        |      |
|----------------------------|--------------------------|---|---|---------|--------|------|
|                            | a                        | o | o | a       | b      | t    |
| b                          | n                        | u | r | v       | v      | c    |
| r                          | r                        | t | r | a       | a      | o    |
| e                          | a                        | r | a | l       | l      | r    |
| e                          | i                        | y | i | u       | u      | r    |
| d                          | t                        | 2 | t | e       | e      | 2    |
| JER CONFORMATION           | DFS CONFORMATION         |   |   | -36.193 | 0.3133 | 0.58 |
| JER FEET AND LEGS          | DFS OVERALL FEET & LEG   |   |   | -35.770 | 0.3295 |      |
| JER MAMMARY SYSTEM         | DFS OVERALL UDDER SCORE  |   |   | -40.596 | 0.3775 |      |
| JER STATURE                | DFS STATURE              |   |   | -55.436 | 0.5137 |      |
| JER CHEST WIDTH            | DFS CHEST WIDTH          |   |   | -36.922 | 0.3477 |      |
| JER BODY DEPTH             | DFS BODY DEPTH           |   |   | -38.629 | 0.3576 |      |
| JER PIN WIDTH              | DFS RUMP WIDTH           |   |   | -54.993 | 0.4851 |      |
| JER RUMP ANGLE             | DFS RUMP ANGLE           |   |   | -45.505 | 0.4712 |      |
| JER FOOT ANGLE             | DFS FOOT ANGLE           |   |   | -39.463 | 0.3894 |      |
| JER REAR LEGS SIDE VIEW    | DFS REAR LEG SET         |   |   | -41.186 | 0.4385 |      |
| JER REAR LEG REAR VIEW     | DFS REAR LEG REAR VIEW   |   |   | -41.218 | 0.3587 |      |
| JER UDDER DEPTH            | DFS UDDER DEPTH          |   |   | -37.378 | 0.3771 |      |
| JER MEDIAN SUSPENSORY      | DFS MEDIAN SUSPENSORY    |   |   | -46.859 | 0.4443 |      |
| JER FORE ATTACHMENT        | DFS FORE UDDER           |   |   | -36.772 | 0.3459 |      |
| JER TEAT PLACEMENT         | DFS FRONT TEAT PLACEMENT |   |   | -50.224 | 0.4665 |      |
| JER TEAT LENGTH            | DFS TEAT LENGTH          |   |   | -36.924 | 0.3696 |      |
| JER REAR ATTACHMENT HEIGHT | DFS REAR UDDER HEIGHT    |   |   | -55.809 | 0.5481 |      |
| JER REAR TEAT PLACEMENT    | DFS REAR TEAT PLACEMENT  |   |   | -51.824 | 0.4787 |      |
| JER ANGULARITY             | DFS ANGULARITY           |   |   | -46.270 | 0.4401 |      |

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country2=GBR

|                    | c                       | c | f |        |        |   |
|--------------------|-------------------------|---|---|--------|--------|---|
|                    | a                       | o | o | a      | b      | t |
| b                  | n                       | u | r | v      | v      | c |
| r                  | r                       | t | r | a      | a      | o |
| e                  | a                       | r | a | l      | l      | r |
| e                  | i                       | y | i | u      | u      | r |
| d                  | t                       | 2 | t | e      | e      | 2 |
| JER FEET AND LEGS  | GBR OVERALL FEET & LEG  |   |   | -3.218 | 3.3256 |   |
| JER MAMMARY SYSTEM | GBR OVERALL UDDER SCORE |   |   | -3.517 | 4.3214 |   |
| JER STATURE        | GBR STATURE             |   |   | -7.175 | 6.1520 |   |
| JER CHEST WIDTH    | GBR CHEST WIDTH         |   |   | -0.191 | 3.9097 |   |
| JER BODY DEPTH     | GBR BODY DEPTH          |   |   | -0.903 | 3.2297 |   |
| JER PIN WIDTH      | GBR RUMP WIDTH          |   |   | -3.470 | 4.3926 |   |
| JER RUMP ANGLE     | GBR RUMP ANGLE          |   |   | -0.996 | 4.5017 |   |
| JER FOOT ANGLE     | GBR FOOT ANGLE          |   |   | -1.425 | 3.2587 |   |

|                            |                          |        |        |
|----------------------------|--------------------------|--------|--------|
| JER REAR LEGS SIDE VIEW    | GBR REAR LEG SET         | 1.082  | 2.8241 |
| JER UDDER DEPTH            | GBR UDDER DEPTH          | -1.146 | 3.2063 |
| JER MEDIAN SUSPENSORY      | GBR MEDIAN SUSPENSORY    | -1.946 | 3.4534 |
| JER FORE ATTACHMENT        | GBR FORE UDDER           | -1.194 | 3.1330 |
| JER TEAT PLACEMENT         | GBR FRONT TEAT PLACEMENT | -1.573 | 4.1774 |
| JER TEAT LENGTH            | GBR TEAT LENGTH          | -0.861 | 3.7878 |
| JER REAR ATTACHMENT HEIGHT | GBR REAR UDDER HEIGHT    | -4.056 | 5.0111 |
| JER ANGULARITY             | GBR ANGULARITY           | -5.946 | 5.2309 |

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country2=ITA

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   | c | c | f |   |   |   |
|   | a | o | o |   |   |   |
|   | n | u | r | a | b | t |
| b | t | n | t | v | v | c |
| r | r | t | r | a | a | o |
| e | a | r | a | l | l | r |
| e | i | y | i | u | u | r |
| d | t | 2 | t | e | e | 2 |

  

|                            |                          |        |        |      |
|----------------------------|--------------------------|--------|--------|------|
| JER CONFORMATION           | ITA CONFORMATION         | -4.727 | 6.5649 | 0.67 |
| JER FEET AND LEGS          | ITA OVERALL FEET & LEG   | -2.726 | 3.9964 |      |
| JER STATURE                | ITA STATURE              | -4.162 | 5.1052 |      |
| JER CHEST WIDTH            | ITA CHEST WIDTH          | 0.190  | 4.1560 |      |
| JER BODY DEPTH             | ITA BODY DEPTH           | -0.084 | 3.0668 |      |
| JER PIN WIDTH              | ITA RUMP WIDTH           | -2.796 | 3.6589 |      |
| JER RUMP ANGLE             | ITA RUMP ANGLE           | 0.290  | 3.8559 |      |
| JER FOOT ANGLE             | ITA FOOT ANGLE           | -1.027 | 2.4043 |      |
| JER REAR LEGS SIDE VIEW    | ITA REAR LEG SET         | 1.563  | 3.2681 |      |
| JER REAR LEG REAR VIEW     | ITA REAR LEG REAR VIEW   | -2.771 | 5.0074 |      |
| JER UDDER DEPTH            | ITA UDDER DEPTH          | -2.449 | 3.3809 |      |
| JER MEDIAN SUSPENSORY      | ITA MEDIAN SUSPENSORY    | -1.054 | 3.2015 |      |
| JER FORE ATTACHMENT        | ITA FORE UDDER           | -3.466 | 3.0716 |      |
| JER TEAT PLACEMENT         | ITA FRONT TEAT PLACEMENT | -3.146 | 3.3185 |      |
| JER TEAT LENGTH            | ITA TEAT LENGTH          | -0.221 | 3.1875 |      |
| JER REAR ATTACHMENT HEIGHT | ITA REAR UDDER HEIGHT    | -2.679 | 4.1457 |      |
| JER ANGULARITY             | ITA ANGULARITY           | -2.437 | 4.8103 |      |

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Conversion Factors For Type. Source = INTERBULL MACE 1812  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NLD

|   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|
|   | c | c | f |   |   |   |
|   | a | o | o |   |   |   |
|   | n | u | r | a | b | t |
| b | t | n | t | v | v | c |
| r | r | t | r | a | a | o |
| e | a | r | a | l | l | r |

| e<br>d                     | i<br>t | y<br>2                   | i<br>t | u<br>e   | u<br>e | r<br>2 |
|----------------------------|--------|--------------------------|--------|----------|--------|--------|
| JER CONFORMATION           |        | NLD CONFORMATION         |        | -160.402 | 1.7606 | 0.61   |
| JER FEET AND LEGS          |        | NLD OVERALL FEET & LEG   |        | -84.818  | 0.7278 |        |
| JER MAMMARY SYSTEM         |        | NLD OVERALL UDDER SCORE  |        | -113.300 | 1.1889 |        |
| JER STATURE                |        | NLD STATURE              |        | -92.710  | 1.2630 |        |
| JER CHEST WIDTH            |        | NLD CHEST WIDTH          |        | -116.272 | 1.4723 |        |
| JER BODY DEPTH             |        | NLD BODY DEPTH           |        | -128.373 | 1.5453 |        |
| JER PIN WIDTH              |        | NLD RUMP WIDTH           |        | -109.312 | 1.3577 |        |
| JER RUMP ANGLE             |        | NLD RUMP ANGLE           |        | -104.905 | 1.1115 |        |
| JER FOOT ANGLE             |        | NLD FOOT ANGLE           |        | -86.726  | 0.9199 |        |
| JER REAR LEGS SIDE VIEW    |        | NLD REAR LEG SET         |        | -148.410 | 1.4570 |        |
| JER REAR LEG REAR VIEW     |        | NLD REAR LEG REAR VIEW   |        | -115.773 | 1.0060 |        |
| JER UDDER DEPTH            |        | NLD UDDER DEPTH          |        | -100.161 | 1.1179 |        |
| JER MEDIAN SUSPENSORY      |        | NLD MEDIAN SUSPENSORY    |        | -98.942  | 1.0251 |        |
| JER FORE ATTACHMENT        |        | NLD FORE UDDER           |        | -94.154  | 0.9611 |        |
| JER TEAT PLACEMENT         |        | NLD FRONT TEAT PLACEMENT |        | -112.451 | 1.1365 |        |
| JER TEAT LENGTH            |        | NLD TEAT LENGTH          |        | -120.612 | 1.1507 |        |
| JER REAR ATTACHMENT HEIGHT |        | NLD REAR UDDER HEIGHT    |        | -118.272 | 1.2019 |        |
| JER REAR TEAT PLACEMENT    |        | NLD REAR TEAT PLACEMENT  |        | -130.282 | 1.3520 |        |
| JER ANGULARITY             |        | NLD ANGULARITY           |        | -113.928 | 1.2859 |        |

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Conversion Factors For Type. Source = INTERBULL MACE 1812  
Converted Canadian Proof = A + (B\* Foreign Proof)  
Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=NZL

| b<br>r<br>e<br>e<br>d      | c<br>n<br>t<br>r<br>y<br>2 | c<br>o<br>u<br>n<br>t<br>r<br>y<br>2 | f<br>o<br>r<br>e<br>i<br>g<br>n<br>c<br>o<br>u<br>n<br>t<br>r<br>y<br>2 | a<br>v<br>e<br>r<br>a<br>g<br>e | b<br>v<br>a<br>r<br>i<br>a<br>n<br>c<br>e | t<br>c<br>o<br>r<br>r<br>e<br>c<br>t<br>i<br>o<br>n |
|----------------------------|----------------------------|--------------------------------------|---|---------------------------------|---|---|
| JER CONFORMATION           |                            | NZL OVERALL CONFORMATION             |   | -9.968                          | 11.7835                                   | 0.36  |
| JER MAMMARY SYSTEM         |                            | NZL OVERALL UDDER SCORE              |   | -9.996                          | 10.6998                                   |   |
| JER STATURE                |                            | NZL STATURE                          |   | 4.494                           | 15.1831                                   |   |
| JER CHEST WIDTH            |                            | NZL CHEST WIDTH                      |   | 6.383                           | 12.4252                                   |   |
| JER BODY DEPTH             |                            | NZL BODY DEPTH                       |   | 4.012                           | 11.0381                                   |   |
| JER PIN WIDTH              |                            | NZL RUMP WIDTH                       |   | 4.220                           | 18.3635                                   |   |
| JER RUMP ANGLE             |                            | NZL RUMP ANGLE                       |   | 1.481                           | 17.1979                                   |   |
| JER REAR LEGS SIDE VIEW    |                            | NZL REAR LEG SET                     |   | 0.214                           | 34.3431                                   |   |
| JER MEDIAN SUSPENSORY      |                            | NZL MEDIAN SUSPENSORY                |   | -3.849                          | 10.0425                                   |   |
| JER FORE ATTACHMENT        |                            | NZL FORE UDDER                       |   | -6.322                          | 9.7123                                    |   |
| JER FRONT TEAT PLACEMENT   |                            | NZL FRONT TEAT PLACEMENT             |   | -4.944                          | 19.2001                                   |   |
| JER REAR ATTACHMENT HEIGHT |                            | NZL REAR UDDER HEIGHT                |   | -9.515                          | 13.4953                                   |   |
| JER REAR TEAT PLACEMENT    |                            | NZL REAR TEAT PLACEMENT              |   | -1.923                          | 15.0695                                   |   |

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Converted Canadian Proof = A + (B\* Foreign Proof)

Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=USA

|                            | c   | c                      | f      |         |      |   |
|----------------------------|-----|------------------------|--------|---------|------|---|
|                            | a   | o                      | o      | a       | b    | t |
| b                          | t   | n                      | t      | v       | v    | c |
| r                          | r   | t                      | r      | a       | a    | o |
| e                          | a   | r                      | a      | l       | l    | r |
| e                          | i   | y                      | i      | u       | u    | r |
| d                          | t   | 2                      | t      | e       | e    | 2 |
| JER CONFORMATION           | USA | PTA TYPE (FINAL SCORE) | -4.040 | 5.3520  | 0.62 |   |
| JER FEET AND LEGS          | USA | OVERALL FEET & LEG     | -2.495 | 5.7310  |      |   |
| JER MAMMARY SYSTEM         | USA | OVERALL UDDER SCORE    | -3.182 | 8.9783  |      |   |
| JER STATURE                | USA | STATURE                | -1.538 | 4.8217  |      |   |
| JER CHEST WIDTH            | USA | STRENGTH               | -0.909 | 7.3399  |      |   |
| JER BODY DEPTH             | USA | BODY DEPTH             | 0.238  | 5.1719  |      |   |
| JER PIN WIDTH              | USA | THURL WIDTH            | -0.006 | 7.1137  |      |   |
| JER RUMP ANGLE             | USA | RUMP ANGLE             | 0.955  | 4.9687  |      |   |
| JER FOOT ANGLE             | USA | FOOT ANGLE             | -2.080 | 7.1242  |      |   |
| JER REAR LEGS SIDE VIEW    | USA | REAR LEGS - SIDE VIEW  | 1.535  | 7.9942  |      |   |
| JER REAR LEG REAR VIEW     | USA | REAR LEG REAR VIEW     | -2.475 | -7.7430 |      |   |
| JER UDDER DEPTH            | USA | UDDER DEPTH            | -3.444 | 3.3739  |      |   |
| JER MEDIAN SUSPENSORY      | USA | UDDER CLEFT            | 0.173  | 7.1361  |      |   |
| JER FORE ATTACHMENT        | USA | FORE UDDER ATTACHMENT  | -3.374 | 4.1272  |      |   |
| JER FRONT TEAT PLACEMENT   | USA | FRONT TEAT PLACEMENT   | -1.049 | 5.4109  |      |   |
| JER TEAT LENGTH            | USA | TEAT LENGTH            | -0.053 | 6.0155  |      |   |
| JER REAR ATTACHMENT HEIGHT | USA | REAR UDDER HEIGHT      | -2.123 | 5.4296  |      |   |
| JER REAR TEAT PLACEMENT    | USA | REAR TEAT PLACEMENT    | -0.491 | 4.2975  |      |   |
| JER ANGULARITY             | USA | DAIRY FORM             | -0.785 | 6.1152  |      |   |

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Converted Proof Reliability = TCORR2\*Foreign Reliability

country2=ZAF

|                         | c   | c                  | f       |        |   |   |
|-------------------------|-----|--------------------|---------|--------|---|---|
|                         | a   | o                  | o       | a      | b | t |
| b                       | t   | n                  | t       | v      | v | c |
| r                       | r   | t                  | r       | a      | a | o |
| e                       | a   | r                  | a       | l      | l | r |
| e                       | i   | y                  | i       | u      | u | r |
| d                       | t   | 2                  | t       | e      | e | 2 |
| JER STATURE             | ZAF | STATURE            | -69.227 | 0.6485 |   |   |
| JER CHEST WIDTH         | ZAF | CHEST WIDTH        | -64.299 | 0.6345 |   |   |
| JER BODY DEPTH          | ZAF | BODY DEPTH         | -49.062 | 0.4932 |   |   |
| JER PIN WIDTH           | ZAF | RUMP WIDTH         | -56.093 | 0.5481 |   |   |
| JER RUMP ANGLE          | ZAF | RUMP ANGLE         | -54.090 | 0.5464 |   |   |
| JER FOOT ANGLE          | ZAF | FOOT ANGLE         | -39.973 | 0.3811 |   |   |
| JER REAR LEGS SIDE VIEW | ZAF | REAR LEG SET       | -33.211 | 0.3489 |   |   |
| JER REAR LEG REAR VIEW  | ZAF | REAR LEG REAR VIEW | -35.241 | 0.3142 |   |   |
| JER UDDER DEPTH         | ZAF | UDDER DEPTH        | -45.040 | 0.4256 |   |   |

|                            |                          |         |        |
|----------------------------|--------------------------|---------|--------|
| JER MEDIAN SUSPENSORY      | ZAF MEDIAN SUSPENSORY    | -50.099 | 0.5015 |
| JER FORE ATTACHMENT        | ZAF FORE UDDER           | -43.038 | 0.3993 |
| JER TEAT PLACEMENT         | ZAF FRONT TEAT PLACEMENT | -56.520 | 0.5534 |
| JER TEAT LENGTH            | ZAF TEAT LENGTH          | -49.101 | 0.4908 |
| JER REAR ATTACHMENT HEIGHT | ZAF REAR UDDER HEIGHT    | -77.561 | 0.7301 |
| JER REAR TEAT PLACEMENT    | ZAF REAR TEAT PLACEMENT  | -58.907 | 0.5862 |
| JER ANGULARITY             | ZAF ANGULARITY           | -54.037 | 0.5210 |

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CALCULATION OF FAT% AND PROTEIN% FOR DECEMBER 2018

| BREED | BMILK | BFAT  | BPRT  |
|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- |
| AYS   | 7799  | 325   | 263   |
| BSW   | 8516  | 358   | 301   |
| CN    | 5852  | 252   | 205   |
| GUE   | 6576  | 304   | 225   |
| JER   | 6632  | 336   | 254   |
| HOL   | 10222 | 399   | 329   |
| MS    | 6711  | 268   | 224   |

$$EBVFAT\% = 200 * [ (BFAT + EBVFAT * 0.5) / (BMILK + EBVMILK * 0.5) - (BFAT / BMILK) ]$$

$$EBVPROT\% = 200 * [ (BPRT + EBVPRT * 0.5) / (BMILK + EBVMILK * 0.5) - (BPRT / BMILK) ]$$

EXAMPLE:

A HOLSTEIN bull has EBV MILK=+1000, EBVFAT=+50, EBVPROT=+40

$$\begin{aligned}
 EBVFAT\% &= 200 * [ (399 + 50 * 0.5) / (10222 + 1000 * 0.5) - (399 / 1E4) ] \\
 &= 200 * [ (399 + 25) / (10222 + 500) - (0.03903) ] \\
 &= 200 * [ 0.03954 - 0.03903 ] \\
 &= 200 * 0.00051 \\
 &= 0.10
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [ (329 + 40 * 0.5) / (10222 + 1000 * 0.5) - (329 / 1E4) ] \\
 &= 200 * [ (329 + 20) / (10222 + 500) - (0.03219) ] \\
 &= 200 * [ 0.03255 - 0.03219 ] \\
 &= 200 * 0.00036 \\
 &= 0.07
 \end{aligned}$$