
 Conversion Factors For Production Traits. Source: INTERBULL 1604

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

| breed | country2 | amilk | bmilk | afat | bfat | aprot | bprot | pcorr2 |
|-------|----------|----------|---------|----------|--------|----------|--------|--------|
| AYS | AUS | 378.90 | 1.2340 | 25.600 | 1.3760 | 19.600 | 1.3380 | 0.4900 |
| AYS | DEU | 453.60 | 0.9120 | 36.400 | 0.8340 | 24.900 | 0.8770 | 0.7744 |
| AYS | DFS | -4538.40 | 55.2740 | -164.400 | 2.0930 | -117.900 | 1.6090 | 0.7921 |
| AYS | EST | 483.10 | 1.0600 | 22.000 | 1.0780 | 21.700 | 0.9790 | 0.6724 |
| AYS | GBR | -269.60 | 2.4610 | -8.200 | 2.6800 | -4.600 | 2.6680 | 0.6889 |
| AYS | IRL | 685.50 | 3.7067 | 18.874 | 3.3656 | 19.383 | 3.9429 | 0.5625 |
| AYS | LTU | -498.60 | 1.5890 | -6.000 | 1.3410 | -6.600 | 1.6240 | 0.6889 |
| AYS | LVA | 265.10 | 1.8990 | 19.400 | 1.7230 | 15.300 | 2.0960 | 0.6724 |
| AYS | NLD | 1584.75 | 0.8446 | 55.053 | 0.7784 | 53.529 | 0.6841 | 0.7744 |
| AYS | NOR | -3663.80 | 43.5130 | -136.400 | 1.6500 | -98.200 | 1.3080 | 0.7569 |
| AYS | NZL | -79.70 | 1.6610 | 22.700 | 1.4750 | 9.400 | 1.8130 | 0.4761 |
| AYS | USA | -188.70 | 0.8670 | -12.300 | 0.8850 | -7.900 | 0.8900 | 0.8100 |
| AYS | ZAF | -5.35 | 0.8751 | -3.024 | 0.9326 | 0.035 | 0.8963 | 0.6561 |

 Conversion Factors For SCS Traits. Source: INTERBULL 1604

Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

| breed | country2 | a | b | scorr2 |
|-------|----------|--------|---------|--------|
| AYS | AUS | 3.800 | -0.0070 | 0.7921 |
| AYS | DEU | 4.700 | -0.0160 | 0.8649 |
| AYS | DFS | 4.700 | -0.0180 | 0.8836 |
| AYS | EST | 4.900 | -0.0180 | 0.7921 |
| AYS | GBR | 3.000 | 0.0200 | 0.8836 |
| AYS | LTU | 3.100 | 0.6170 | 0.8100 |
| AYS | LVA | 3.100 | 0.4980 | 0.8100 |
| AYS | NLD | -2.695 | 0.0563 | 0.8464 |
| AYS | NOR | 4.500 | -0.0150 | 0.8464 |
| AYS | NZL | 3.200 | 0.5180 | 0.7396 |
| AYS | ZAF | 3.004 | 0.0087 | 0.7921 |

 Conversion Factors For Type. Source = INTERBULL MACE 1604

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

country2=AUS

| c | a | n | b | r | e | a | e | i | d | t | c | f | o | u | r | a | y | 2 | a | b | t | v | a | l | u | e | c | o | r | r | 2 |
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|-----|------------------------|-----|----------------------|---------|--------|------|
| AYS | CONFORMATION | AUS | CONFORMATION | -71.462 | 0.6584 | 0.37 |
| AYS | FEET AND LEGS | AUS | OVERALL FEET & LEG | -41.450 | 0.3635 | |
| AYS | MAMMARY SYSTEM | AUS | OVERALL UDDER SCORE | -79.014 | 0.7377 | |
| AYS | STATURE | AUS | STATURE | -96.584 | 0.9268 | |
| AYS | CHEST WIDTH | AUS | CHEST WIDTH | -74.513 | 0.7603 | |
| AYS | BODY DEPTH | AUS | BODY DEPTH | -86.724 | 0.8488 | |
| AYS | PIN WIDTH | AUS | RUMP WIDTH | -84.809 | 0.8345 | |
| AYS | RUMP ANGLE | AUS | RUMP ANGLE | -82.412 | 0.8089 | |
| AYS | FOOT ANGLE | AUS | FOOT ANGLE | -62.644 | 0.6189 | |
| AYS | REAR LEGS SIDE VIEW | AUS | REAR LEG SET | -59.749 | 0.6430 | |
| AYS | REAR LEG REAR VIEW | AUS | REAR LEG REAR VIEW | -59.239 | 0.5635 | |
| AYS | UDDER DEPTH | AUS | UDDER DEPTH | -75.594 | 0.7078 | |
| AYS | MEDIAN SUSPENSORY | AUS | MEDIAN SUSPENSORY | -67.951 | 0.6556 | |
| AYS | FORE ATTACHMENT | AUS | FORE UDDER | -69.762 | 0.6495 | |
| AYS | TEAT PLACEMENT | AUS | FRONT TEAT PLACEMENT | -71.174 | 0.7025 | |
| AYS | TEAT LENGTH | AUS | TEAT LENGTH | -84.958 | 0.8617 | |
| AYS | REAR ATTACHMENT HEIGHT | AUS | REAR UDDER HEIGHT | -84.108 | 0.7586 | |
| AYS | REAR TEAT PLACEMENT | AUS | REAR TEAT PLACEMENT | -88.483 | 0.8571 | |
| AYS | ANGULARITY | AUS | ANGULARITY | -68.564 | 0.6210 | |

Conversion Factors For Type. Source = INTERBULL MACE 1604
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

| c | a | n | b | r | e | e | d | c | o | u | n | t | r | a | y | 2 | f | o | u | r | a | i | t | a | b | v | a | l | u | e | t | c | o | r | r | 2 | | |
|-----|------------------------|-----|----------------------|---------|--------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|--|
| AYS | FEET AND LEGS | DEU | OVERALL FEET & LEG | -36.959 | 0.3644 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | MAMMARY SYSTEM | DEU | OVERALL UDDER SCORE | -37.115 | 0.3517 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | STATURE | DEU | STATURE | -44.687 | 0.4602 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | CHEST WIDTH | DEU | CHEST WIDTH | -50.726 | 0.5197 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | BODY DEPTH | DEU | BODY DEPTH | -54.254 | 0.5560 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | PIN WIDTH | DEU | RUMP WIDTH | -57.173 | 0.5940 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | RUMP ANGLE | DEU | RUMP ANGLE | -72.260 | 0.6836 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | FOOT ANGLE | DEU | FOOT ANGLE | -37.013 | 0.3999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | REAR LEGS SIDE VIEW | DEU | REAR LEG SET | -68.488 | 0.6694 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | REAR LEG REAR VIEW | DEU | REAR LEG REAR VIEW | -61.789 | 0.6263 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | UDDER DEPTH | DEU | UDDER DEPTH | -48.907 | 0.4787 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | MEDIAN SUSPENSORY | DEU | MEDIAN SUSPENSORY | -43.327 | 0.4297 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | FORE ATTACHMENT | DEU | FORE UDDER | -53.545 | 0.4971 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | FRONT TEAT PLACEMENT | DEU | FRONT TEAT PLACEMENT | -42.243 | 0.4075 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | TEAT LENGTH | DEU | TEAT LENGTH | -38.325 | 0.3680 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | REAR ATTACHMENT HEIGHT | DEU | REAR UDDER HEIGHT | -42.619 | 0.3829 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | REAR TEAT PLACEMENT | DEU | REAR TEAT PLACEMENT | -46.081 | 0.4282 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AYS | ANGULARITY | DEU | ANGULARITY | -47.365 | 0.4631 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Conversion Factors For Type. Source = INTERBULL MACE 1604
 Converted Canadian Proof = A + (B* Foreign Proof)

Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

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| d | 2 | t | e | e | 2 | |
| AYS | CONFORMATION | DFS | OVERALL CONFORMATION | -50.339 | 0.4530 | 0.55 |
| AYS | FEET AND LEGS | DFS | OVERALL FEET & LEG | -40.874 | 0.3787 | |
| AYS | MAMMARY SYSTEM | DFS | OVERALL UDDER SCORE | -46.785 | 0.4354 | |
| AYS | STATURE | DFS | STATURE | -66.256 | 0.6447 | |
| AYS | CHEST WIDTH | DFS | CHEST WIDTH | -45.681 | 0.4685 | |
| AYS | BODY DEPTH | DFS | BODY DEPTH | -46.351 | 0.4303 | |
| AYS | PIN WIDTH | DFS | RUMP WIDTH | -51.530 | 0.5123 | |
| AYS | RUMP ANGLE | DFS | RUMP ANGLE | -56.371 | 0.5657 | |
| AYS | FOOT ANGLE | DFS | FOOT ANGLE | -47.550 | 0.4874 | |
| AYS | REAR LEGS SIDE VIEW | DFS | REAR LEG SET | -63.366 | 0.6709 | |
| AYS | REAR LEG REAR VIEW | DFS | REAR LEG REAR VIEW | -54.565 | 0.5305 | |
| AYS | UDDER DEPTH | DFS | UDDER DEPTH | -52.006 | 0.5068 | |
| AYS | MEDIAN SUSPENSORY | DFS | MEDIAN SUSPENSORY | -37.191 | 0.3517 | |
| AYS | FORE ATTACHMENT | DFS | FORE UDDER | -44.001 | 0.4134 | |
| AYS | FRONT TEAT PLACEMENT | DFS | FRONT TEAT PLACEMENT | -40.795 | 0.4045 | |
| AYS | TEAT LENGTH | DFS | TEAT LENGTH | -43.671 | 0.4224 | |
| AYS | REAR ATTACHMENT HEIGHT | DFS | REAR UDDER HEIGHT | -55.138 | 0.4912 | |
| AYS | REAR TEAT PLACEMENT | DFS | REAR TEAT PLACEMENT | -45.318 | 0.4355 | |
| AYS | ANGULARITY | DFS | ANGULARITY | -62.723 | 0.5676 | |

Conversion Factors For Type. Source = INTERBULL MACE 1604

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

Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

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| AYS | FEET AND LEGS | GBR | OVERALL FEET & LEG | -3.127 | 2.8080 |
| AYS | MAMMARY SYSTEM | GBR | OVERALL UDDER SCORE | -1.361 | 3.1771 |
| AYS | STATURE | GBR | STATURE | -2.094 | 4.5929 |
| AYS | CHEST WIDTH | GBR | CHEST WIDTH | 2.230 | 3.8014 |
| AYS | BODY DEPTH | GBR | BODY DEPTH | 0.780 | 3.5190 |
| AYS | PIN WIDTH | GBR | RUMP WIDTH | -0.489 | 4.0212 |
| AYS | RUMP ANGLE | GBR | RUMP ANGLE | -2.163 | 3.8037 |
| AYS | FOOT ANGLE | GBR | FOOT ANGLE | -0.774 | 2.8734 |
| AYS | REAR LEGS SIDE VIEW | GBR | REAR LEG SET | -1.041 | 3.4595 |
| AYS | UDDER DEPTH | GBR | UDDER DEPTH | -0.778 | 2.8460 |

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|-----|------------------------|-----|----------------------|--------|--------|
| AYS | MEDIAN SUSPENSORY | GBR | MEDIAN SUSPENSORY | -0.583 | 2.6621 |
| AYS | FORE ATTACHMENT | GBR | FORE UDDER | -0.062 | 2.9645 |
| AYS | TEAT PLACEMENT | GBR | FRONT TEAT PLACEMENT | 2.078 | 3.1982 |
| AYS | TEAT LENGTH | GBR | TEAT LENGTH | -1.329 | 3.3038 |
| AYS | REAR ATTACHMENT HEIGHT | GBR | REAR UDDER HEIGHT | -2.812 | 3.6325 |
| AYS | ANGULARITY | GBR | ANGULARITY | -5.426 | 4.4690 |

Conversion Factors For Type. Source = INTERBULL MACE 1604
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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| d | t | | 2 | t | | | | 2 |
| AYS | CONFORMATION | NLD | CONFORMATION | -126.462 | 1.3223 | 0.62 | | |
| AYS | FEET AND LEGS | NLD | OVERALL FEET & LEG | -55.923 | 0.5458 | | | |
| AYS | MAMMARY SYSTEM | NLD | OVERALL UDDER SCORE | -104.760 | 1.1039 | | | |
| AYS | STATURE | NLD | STATURE | -112.806 | 1.2468 | | | |
| AYS | CHEST WIDTH | NLD | CHEST WIDTH | -186.231 | 1.9799 | | | |
| AYS | BODY DEPTH | NLD | BODY DEPTH | -111.233 | 1.2145 | | | |
| AYS | PIN WIDTH | NLD | RUMP WIDTH | -90.649 | 0.9863 | | | |
| AYS | RUMP ANGLE | NLD | RUMP ANGLE | -100.673 | 0.9934 | | | |
| AYS | FOOT ANGLE | NLD | FOOT ANGLE | -99.164 | 1.0428 | | | |
| AYS | REAR LEGS SIDE VIEW | NLD | REAR LEG SET | -103.221 | 1.0154 | | | |
| AYS | REAR LEG REAR VIEW | NLD | REAR LEG REAR VIEW | -113.850 | 1.1492 | | | |
| AYS | UDDER DEPTH | NLD | UDDER DEPTH | -112.139 | 1.1584 | | | |
| AYS | MEDIAN SUSPENSORY | NLD | MEDIAN SUSPENSORY | -95.134 | 0.9783 | | | |
| AYS | FORE ATTACHMENT | NLD | FORE UDDER | -126.555 | 1.2922 | | | |
| AYS | TEAT PLACEMENT | NLD | FRONT TEAT PLACEMENT | -119.175 | 1.2384 | | | |
| AYS | TEAT LENGTH | NLD | TEAT LENGTH | -82.154 | 0.8372 | | | |
| AYS | REAR ATTACHMENT HEIGHT | NLD | REAR UDDER HEIGHT | -84.167 | 0.8853 | | | |
| AYS | REAR TEAT PLACEMENT | NLD | REAR TEAT PLACEMENT | -108.481 | 1.1082 | | | |
| AYS | ANGULARITY | NLD | ANGULARITY | -81.575 | 0.8753 | | | |

Conversion Factors For Type. Source = INTERBULL MACE 1604
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NOR

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|-----|------------------------|-----|----------------------|--------|--------|------|
| AYS | CONFORMATION | USA | CONFORMATION | -2.582 | 5.7858 | 0.69 |
| AYS | FEET AND LEGS | USA | OVERALL FEET & LEG | -2.560 | 4.3034 | |
| AYS | MAMMARY SYSTEM | USA | OVERALL UDDER SCORE | -0.440 | 5.6717 | |
| AYS | STATURE | USA | STATURE | -0.884 | 2.8433 | |
| AYS | CHEST WIDTH | USA | CHEST WIDTH | -0.502 | 5.8415 | |
| AYS | BODY DEPTH | USA | BODY DEPTH | -1.461 | 4.5501 | |
| AYS | PIN WIDTH | USA | RUMP WIDTH | -0.310 | 4.5032 | |
| AYS | RUMP ANGLE | USA | RUMP ANGLE | -0.917 | 5.5790 | |
| AYS | FOOT ANGLE | USA | FOOT ANGLE | -0.156 | 6.6706 | |
| AYS | REAR LEGS SIDE VIEW | USA | REAR LEG SET | 0.987 | 8.6659 | |
| AYS | REAR LEG REAR VIEW | USA | REAR LEG REAR VIEW | -3.711 | 7.0108 | |
| AYS | UDDER DEPTH | USA | UDDER DEPTH | 0.043 | 4.8450 | |
| AYS | MEDIAN SUSPENSORY | USA | MEDIAN SUSPENSORY | -1.785 | 4.8026 | |
| AYS | FORE ATTACHMENT | USA | FORE UDDER | -1.014 | 4.8862 | |
| AYS | TEAT PLACEMENT | USA | FRONT TEAT PLACEMENT | 0.140 | 4.2725 | |
| AYS | TEAT LENGTH | USA | TEAT LENGTH | -0.563 | 4.1277 | |
| AYS | REAR ATTACHMENT HEIGHT | USA | REAR UDDER HEIGHT | -0.933 | 4.7801 | |
| AYS | REAR TEAT PLACEMENT | USA | REAR TEAT PLACEMENT | 0.154 | 4.9852 | |
| AYS | ANGULARITY | USA | ANGULARITY | -1.138 | 6.5488 | |

CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2016

| BREED | BMILK | BFAT | BPRT |
|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- |
| AYS | 7595 | 314 | 257 |
| BSW | 8147 | 342 | 288 |
| CN | 5832 | 255 | 207 |
| GUE | 6807 | 320 | 235 |
| JER | 6440 | 322 | 247 |
| HOL | 9994 | 384 | 320 |
| MS | 6402 | 246 | 213 |

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

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

EXAMPLE :

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

$$EBVFAT\% = 200 * [(384 + 50 * 0.5) / (9994 + 1000 * 0.5) - (384 / 9994)]$$

$$= 200 * [(384 + 25) / (9994 + 500) - (0.03842)]$$

$$= 200 * [0.03897 - 0.03842]$$

$$= 200 * 0.00055$$

$$= 0.11$$

$$EBVPROT\% = 200 * [(320 + 40 * 0.5) / (9994 + 1000 * 0.5) - (320 / 9994)]$$

$$= 200 * [(320 + 20) / (9994 + 500) - (0.03202)]$$

$$= 200 * [0.03240 - 0.03202]$$

$$= 200 * 0.00038$$

$$= 0.08$$