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 Conversion Factors For Production Traits. Source: INTERBULL 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

| breed | country2 | amilk | bmilk | afat | bfat | aprot | bprot | pcorr2 |
|-------|----------|----------|---------|----------|--------|----------|--------|--------|
| AYS | AUS | 361.30 | 1.2190 | 24.600 | 1.3030 | 19.000 | 1.2860 | 0.4761 |
| AYS | DEU | 481.90 | 0.8810 | 36.900 | 0.8240 | 25.100 | 0.8510 | 0.7744 |
| AYS | DFS | -4421.80 | 54.0540 | -153.800 | 2.0000 | -114.200 | 1.5770 | 0.7921 |
| AYS | EST | 461.10 | 1.0540 | 21.400 | 1.0840 | 20.900 | 0.9640 | 0.6724 |
| AYS | GBR | -358.90 | 2.2740 | -15.000 | 2.5700 | -9.000 | 2.5720 | 0.6889 |
| AYS | IRL | 965.13 | 3.3290 | 33.136 | 3.0690 | 35.529 | 3.0338 | 0.5476 |
| AYS | LTU | -484.30 | 1.5210 | -5.900 | 1.2930 | -6.800 | 1.5950 | 0.6889 |
| AYS | LVA | 216.70 | 1.8310 | 17.100 | 1.6650 | 13.100 | 2.0000 | 0.6724 |
| AYS | NLD | 1449.78 | 0.7590 | 52.703 | 0.7101 | 50.145 | 0.6255 | 0.7744 |
| AYS | NOR | -3423.90 | 41.4910 | -127.800 | 1.5890 | -92.300 | 1.2590 | 0.7569 |
| AYS | NZL | 8.60 | 1.6690 | 30.200 | 1.4790 | 17.400 | 1.8380 | 0.4761 |
| AYS | USA | -214.70 | 0.8720 | -13.700 | 0.8960 | -8.800 | 0.8860 | 0.7921 |
| AYS | ZAF | -11.80 | 0.8828 | -3.397 | 0.9385 | 0.404 | 0.8957 | 0.6561 |

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 Conversion Factors For SCS Traits. Source: INTERBULL 1708
 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 | -0.0170 | 0.8836 |
| AYS | EST | 4.800 | -0.0180 | 0.7921 |
| AYS | GBR | 3.000 | 0.0200 | 0.8649 |
| AYS | LTU | 3.100 | 0.5990 | 0.8100 |
| AYS | LVA | 3.100 | 0.4920 | 0.8100 |
| AYS | NLD | -2.814 | 0.0575 | 0.8281 |
| AYS | NOR | 4.500 | -0.0150 | 0.8464 |
| AYS | NZL | 3.200 | 0.5250 | 0.7569 |
| AYS | USA | 0.100 | 0.9630 | 0.8649 |
| AYS | ZAF | 3.023 | 0.0087 | 0.7921 |

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 Conversion Factors For Type. Source = INTERBULL MACE 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

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| d | t | 2 | t | e | e | 2 |
| AYS | CONFORMATION | AUS | CONFORMATION | -74.058 | 0.6818 | 0.35 |
| AYS | FEET AND LEGS | AUS | OVERALL FEET & LEG | -39.532 | 0.3423 | |
| AYS | MAMMARY SYSTEM | AUS | OVERALL UDDER SCORE | -70.233 | 0.6492 | |
| AYS | STATURE | AUS | STATURE | -86.343 | 0.8236 | |
| AYS | CHEST WIDTH | AUS | CHEST WIDTH | -73.454 | 0.7472 | |
| AYS | BODY DEPTH | AUS | BODY DEPTH | -74.889 | 0.7308 | |
| AYS | PIN WIDTH | AUS | RUMP WIDTH | -86.028 | 0.8438 | |
| AYS | RUMP ANGLE | AUS | RUMP ANGLE | -73.802 | 0.7240 | |
| AYS | FOOT ANGLE | AUS | FOOT ANGLE | -60.077 | 0.5914 | |
| AYS | REAR LEGS SIDE VIEW | AUS | REAR LEG SET | -58.810 | 0.6309 | |
| AYS | REAR LEG REAR VIEW | AUS | REAR LEG REAR VIEW | -58.710 | 0.5573 | |
| AYS | UDDER DEPTH | AUS | UDDER DEPTH | -63.785 | 0.5928 | |
| AYS | MEDIAN SUSPENSORY | AUS | MEDIAN SUSPENSORY | -61.722 | 0.5892 | |
| AYS | FORE ATTACHMENT | AUS | FORE UDDER | -70.438 | 0.6563 | |
| AYS | TEAT PLACEMENT | AUS | FRONT TEAT PLACEMENT | -77.937 | 0.7696 | |
| AYS | TEAT LENGTH | AUS | TEAT LENGTH | -64.982 | 0.6630 | |
| AYS | REAR ATTACHMENT HEIGHT | AUS | REAR UDDER HEIGHT | -80.771 | 0.7234 | |
| AYS | REAR TEAT PLACEMENT | AUS | REAR TEAT PLACEMENT | -88.526 | 0.8552 | |
| AYS | ANGULARITY | AUS | ANGULARITY | -62.620 | 0.5630 | |

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 Conversion Factors For Type. Source = INTERBULL MACE 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

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| | | 2 | t | e | e | 2 |
| AYS | FEET AND LEGS | DEU | OVERALL FEET & LEG | -31.914 | 0.3110 | |
| AYS | MAMMARY SYSTEM | DEU | OVERALL UDDER SCORE | -34.449 | 0.3285 | |
| AYS | STATURE | DEU | STATURE | -41.425 | 0.4320 | |
| AYS | CHEST WIDTH | DEU | CHEST WIDTH | -46.867 | 0.4772 | |
| AYS | BODY DEPTH | DEU | BODY DEPTH | -50.144 | 0.5160 | |
| AYS | PIN WIDTH | DEU | RUMP WIDTH | -54.588 | 0.5697 | |
| AYS | RUMP ANGLE | DEU | RUMP ANGLE | -66.394 | 0.6244 | |
| AYS | FOOT ANGLE | DEU | FOOT ANGLE | -33.934 | 0.3663 | |
| AYS | REAR LEGS SIDE VIEW | DEU | REAR LEG SET | -63.387 | 0.6181 | |
| AYS | REAR LEG REAR VIEW | DEU | REAR LEG REAR VIEW | -56.216 | 0.5743 | |
| AYS | UDDER DEPTH | DEU | UDDER DEPTH | -44.998 | 0.4402 | |
| AYS | MEDIAN SUSPENSORY | DEU | MEDIAN SUSPENSORY | -41.242 | 0.4043 | |
| AYS | FORE ATTACHMENT | DEU | FORE UDDER | -49.861 | 0.4646 | |
| AYS | FRONT TEAT PLACEMENT | DEU | FRONT TEAT PLACEMENT | -39.332 | 0.3800 | |
| AYS | TEAT LENGTH | DEU | TEAT LENGTH | -35.489 | 0.3423 | |
| AYS | REAR ATTACHMENT HEIGHT | DEU | REAR UDDER HEIGHT | -40.367 | 0.3619 | |
| AYS | REAR TEAT PLACEMENT | DEU | REAR TEAT PLACEMENT | -44.234 | 0.4082 | |
| AYS | ANGULARITY | DEU | ANGULARITY | -44.428 | 0.4438 | |

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 Conversion Factors For Type. Source = INTERBULL MACE 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

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| AYS | CONFORMATION | DFS | OVERALL CONFORMATION | -50.726 | 0.4534 | 0.56 |
| AYS | FEET AND LEGS | DFS | OVERALL FEET & LEG | -40.339 | 0.3738 | |
| AYS | MAMMARY SYSTEM | DFS | OVERALL UDDER SCORE | -45.569 | 0.4242 | |
| AYS | STATURE | DFS | STATURE | -66.399 | 0.6451 | |
| AYS | CHEST WIDTH | DFS | CHEST WIDTH | -44.150 | 0.4555 | |
| AYS | BODY DEPTH | DFS | BODY DEPTH | -46.140 | 0.4273 | |
| AYS | PIN WIDTH | DFS | RUMP WIDTH | -52.169 | 0.5192 | |
| AYS | RUMP ANGLE | DFS | RUMP ANGLE | -55.116 | 0.5539 | |
| AYS | FOOT ANGLE | DFS | FOOT ANGLE | -50.677 | 0.5173 | |
| AYS | REAR LEGS SIDE VIEW | DFS | REAR LEG SET | -63.296 | 0.6723 | |
| AYS | REAR LEG REAR VIEW | DFS | REAR LEG REAR VIEW | -53.211 | 0.5197 | |
| AYS | UDDER DEPTH | DFS | UDDER DEPTH | -48.581 | 0.4752 | |
| AYS | MEDIAN SUSPENSORY | DFS | MEDIAN SUSPENSORY | -36.511 | 0.3397 | |
| AYS | FORE ATTACHMENT | DFS | FORE UDDER | -43.746 | 0.4157 | |
| AYS | FRONT TEAT PLACEMENT | DFS | FRONT TEAT PLACEMENT | -41.124 | 0.4113 | |
| AYS | TEAT LENGTH | DFS | TEAT LENGTH | -43.737 | 0.4243 | |
| AYS | REAR ATTACHMENT HEIGHT | DFS | REAR UDDER HEIGHT | -55.701 | 0.4953 | |
| AYS | REAR TEAT PLACEMENT | DFS | REAR TEAT PLACEMENT | -46.651 | 0.4490 | |
| AYS | ANGULARITY | DFS | ANGULARITY | -64.618 | 0.5848 | |

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 Conversion Factors For Type. Source = INTERBULL MACE 1708
 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 | -3.648 | 2.9537 | |
| AYS | MAMMARY SYSTEM | GBR | OVERALL UDDER SCORE | -1.883 | 3.1847 | |
| AYS | STATURE | GBR | STATURE | -2.306 | 4.6325 | |

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|-----|------------------------|-----|----------------------|--------|--------|
| AYS | CHEST WIDTH | GBR | CHEST WIDTH | 1.972 | 3.8215 |
| AYS | BODY DEPTH | GBR | BODY DEPTH | 0.683 | 3.5109 |
| AYS | PIN WIDTH | GBR | RUMP WIDTH | -0.728 | 4.0845 |
| AYS | RUMP ANGLE | GBR | RUMP ANGLE | -2.157 | 3.8084 |
| AYS | FOOT ANGLE | GBR | FOOT ANGLE | -1.267 | 2.9692 |
| AYS | REAR LEGS SIDE VIEW | GBR | REAR LEG SET | -0.784 | 3.6550 |
| AYS | UDDER DEPTH | GBR | UDDER DEPTH | -0.854 | 2.8360 |
| AYS | MEDIAN SUSPENSORY | GBR | MEDIAN SUSPENSORY | -1.319 | 2.5905 |
| AYS | FORE ATTACHMENT | GBR | FORE UDDER | -0.168 | 3.0899 |
| AYS | TEAT PLACEMENT | GBR | FRONT TEAT PLACEMENT | 2.094 | 3.2023 |
| AYS | TEAT LENGTH | GBR | TEAT LENGTH | -0.931 | 3.2274 |
| AYS | REAR ATTACHMENT HEIGHT | GBR | REAR UDDER HEIGHT | -3.328 | 3.6971 |
| AYS | ANGULARITY | GBR | ANGULARITY | -5.851 | 4.6114 |

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Conversion Factors For Type. Source = INTERBULL MACE 1708
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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| d | t | 2 | t | e | e | 2 |
| AYS | CONFORMATION | NLD | CONFORMATION | -124.810 | 1.3005 | 0.62 |
| AYS | FEET AND LEGS | NLD | OVERALL FEET & LEG | -53.222 | 0.5118 | |
| AYS | MAMMARY SYSTEM | NLD | OVERALL UDDER SCORE | -107.464 | 1.1311 | |
| AYS | STATURE | NLD | STATURE | -105.535 | 1.1674 | |
| AYS | CHEST WIDTH | NLD | CHEST WIDTH | -152.313 | 1.6245 | |
| AYS | BODY DEPTH | NLD | BODY DEPTH | -112.090 | 1.2303 | |
| AYS | PIN WIDTH | NLD | RUMP WIDTH | -89.234 | 0.9684 | |
| AYS | RUMP ANGLE | NLD | RUMP ANGLE | -100.262 | 0.9910 | |
| AYS | FOOT ANGLE | NLD | FOOT ANGLE | -92.385 | 0.9658 | |
| AYS | REAR LEGS SIDE VIEW | NLD | REAR LEG SET | -111.187 | 1.0930 | |
| AYS | REAR LEG REAR VIEW | NLD | REAR LEG REAR VIEW | -98.893 | 0.9900 | |
| AYS | UDDER DEPTH | NLD | UDDER DEPTH | -109.228 | 1.1285 | |
| AYS | MEDIAN SUSPENSORY | NLD | MEDIAN SUSPENSORY | -96.950 | 0.9908 | |
| AYS | FORE ATTACHMENT | NLD | FORE UDDER | -120.177 | 1.2251 | |
| AYS | TEAT PLACEMENT | NLD | FRONT TEAT PLACEMENT | -113.122 | 1.1752 | |
| AYS | TEAT LENGTH | NLD | TEAT LENGTH | -79.360 | 0.8080 | |
| AYS | REAR ATTACHMENT HEIGHT | NLD | REAR UDDER HEIGHT | -88.349 | 0.9274 | |
| AYS | REAR TEAT PLACEMENT | NLD | REAR TEAT PLACEMENT | -115.141 | 1.1767 | |
| AYS | ANGULARITY | NLD | ANGULARITY | -94.721 | 1.0346 | |

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Conversion Factors For Type. Source = INTERBULL MACE 1708
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NOR

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| d | t | 2 | t | e | e | 2 |
| AYS | CONFORMATION | NOR | OVERALL CONFORMATION | -39.534 | 0.3192 | 0.71 |
| AYS | FEET AND LEGS | NOR | OVERALL FEET & LEG | -31.465 | 0.2471 | |
| AYS | MAMMARY SYSTEM | NOR | OVERALL UDDER SCORE | -44.413 | 0.3721 | |
| AYS | STATURE | NOR | STATURE | -47.577 | 0.4058 | |
| AYS | BODY DEPTH | NOR | BODY DEPTH | -36.552 | 0.3225 | |
| AYS | RUMP ANGLE | NOR | RUMP ANGLE | -42.206 | 0.4452 | |
| AYS | FOOT ANGLE | NOR | FOOT ANGLE | -29.747 | 0.2884 | |
| AYS | REAR LEGS SIDE VIEW | NOR | REAR LEG SET | -31.728 | 0.3604 | |
| AYS | REAR LEG REAR VIEW | NOR | REAR LEG REAR VIEW | -35.855 | 0.3272 | |
| AYS | UDDER DEPTH | NOR | UDDER DEPTH | -45.187 | 0.3944 | |
| AYS | MEDIAN SUSPENSORY | NOR | MEDIAN SUSPENSORY | -33.634 | 0.2774 | |
| AYS | FORE ATTACHMENT | NOR | FORE UDDER | -40.860 | 0.3558 | |
| AYS | FRONT TEAT PLACEMENT | NOR | FRONT TEAT PLACEMENT | -36.939 | 0.3560 | |
| AYS | TEAT LENGTH | NOR | TEAT LENGTH | -35.246 | 0.3395 | |
| AYS | REAR ATTACHMENT HEIGHT | NOR | REAR UDDER HEIGHT | -45.122 | 0.3421 | |
| AYS | REAR TEAT PLACEMENT | NOR | REAR TEAT PLACEMENT | -36.500 | 0.3414 | |

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Conversion Factors For Type. Source = INTERBULL MACE 1708
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NZL

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| e | a | r | a | l | l | r |
| e | i | y | i | u | u | r |
| d | t | 2 | t | e | e | 2 |
| AYS | CONFORMATION | NZL | OVERALL CONFORMATION | -8.781 | 12.5737 | 0.36 |
| AYS | MAMMARY SYSTEM | NZL | OVERALL UDDER SCORE | -8.212 | 11.9355 | |
| AYS | STATURE | NZL | STATURE | -11.524 | 10.4515 | |
| AYS | CHEST WIDTH | NZL | CHEST WIDTH | 0.713 | 13.2144 | |
| AYS | BODY DEPTH | NZL | BODY DEPTH | -2.390 | 12.4134 | |
| AYS | PIN WIDTH | NZL | RUMP WIDTH | -4.201 | 16.8286 | |
| AYS | RUMP ANGLE | NZL | RUMP ANGLE | -5.381 | 18.8319 | |
| AYS | REAR LEGS SIDE VIEW | NZL | REAR LEG SET | 3.936 | 45.1344 | |
| AYS | MEDIAN SUSPENSORY | NZL | MEDIAN SUSPENSORY | -4.248 | 12.2716 | |
| AYS | FORE ATTACHMENT | NZL | FORE UDDER | -7.587 | 14.1338 | |
| AYS | FRONT TEAT PLACEMENT | NZL | FRONT TEAT PLACEMENT | -4.064 | 17.1862 | |
| AYS | REAR ATTACHMENT HEIGHT | NZL | REAR UDDER HEIGHT | -7.639 | 14.6493 | |
| AYS | REAR TEAT PLACEMENT | NZL | REAR TEAT PLACEMENT | -5.743 | 16.7734 | |

Conversion Factors For Type. Source = INTERBULL MACE 1708
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

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| AYS | CONFORMATION | USA | CONFORMATION | -3.043 | 5.5815 | 0.69 |
| AYS | FEET AND LEGS | USA | OVERALL FEET & LEG | -2.693 | 3.7437 | |
| AYS | MAMMARY SYSTEM | USA | OVERALL UDDER SCORE | -0.984 | 5.1830 | |
| AYS | STATURE | USA | STATURE | -1.238 | 2.6453 | |
| AYS | CHEST WIDTH | USA | CHEST WIDTH | -0.423 | 5.2425 | |
| AYS | BODY DEPTH | USA | BODY DEPTH | -0.970 | 4.2509 | |
| AYS | PIN WIDTH | USA | RUMP WIDTH | -0.400 | 4.5517 | |
| AYS | RUMP ANGLE | USA | RUMP ANGLE | -1.007 | 5.2865 | |
| AYS | FOOT ANGLE | USA | FOOT ANGLE | -0.687 | 5.9669 | |
| AYS | REAR LEGS SIDE VIEW | USA | REAR LEG SET | 0.706 | 7.8289 | |
| AYS | REAR LEG REAR VIEW | USA | REAR LEG REAR VIEW | -4.158 | 6.3431 | |
| AYS | UDDER DEPTH | USA | UDDER DEPTH | -0.344 | 4.8215 | |
| AYS | MEDIAN SUSPENSORY | USA | MEDIAN SUSPENSORY | -2.321 | 4.4988 | |
| AYS | FORE ATTACHMENT | USA | FORE UDDER | -1.178 | 4.6806 | |
| AYS | TEAT PLACEMENT | USA | FRONT TEAT PLACEMENT | 0.090 | 3.9709 | |
| AYS | TEAT LENGTH | USA | TEAT LENGTH | -0.456 | 4.0827 | |
| AYS | REAR ATTACHMENT HEIGHT | USA | REAR UDDER HEIGHT | -1.441 | 4.3183 | |
| AYS | REAR TEAT PLACEMENT | USA | REAR TEAT PLACEMENT | -0.156 | 4.7112 | |
| AYS | ANGULARITY | USA | ANGULARITY | -1.743 | 5.5358 | |

 CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2017

| BREED | BMILK | BFAT | BPRT |
|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- |
| AYS | 7672 | 318 | 260 |
| BSW | 8289 | 350 | 293 |
| CN | 5609 | 247 | 202 |
| GUE | 6821 | 320 | 235 |
| JER | 6532 | 329 | 250 |
| HOL | 10090 | 390 | 324 |
| MS | 6661 | 257 | 220 |

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

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

EXAMPLE:

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

$$\begin{aligned} \text{EBVFAT\%} &= 200 * [(390+50*.5)/(10090+1000*.5)-(390/ 1E4)] \\ &= 200 * [(390+25)/(10090+500)-(0.03865)] \\ &= 200 * [0.03919 - 0.03865] \\ &= 200 * 0.00054 \\ &= 0.11 \end{aligned}$$

$$\begin{aligned} \text{EBVPRT\%} &= 200 * [(324+40*.5)/(10090+1000*.5)-(324/ 1E4)] \\ &= 200 * [(324+20)/(10090+500)-(0.03211)] \\ &= 200 * [0.03248 - 0.03211] \\ &= 200 * 0.00037 \\ &= 0.07 \end{aligned}$$