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 Conversion Factors For Production Traits. Source: INTERBULL 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = PCORR2*Foreign Reliability

| breed | country2 | amilk | bmilk | afat | bfat | aprot | bprot | pcorr2 |
|-------|----------|----------|---------|----------|--------|---------|--------|--------|
| MSH | AUS | 299.80 | 0.7640 | 33.500 | 1.2530 | 11.200 | 0.7200 | 0.4624 |
| MSH | CAN | 449.00 | 0.5330 | 32.900 | 0.6840 | 13.900 | 0.3980 | 0.6241 |
| MSH | DEU | 884.80 | 0.4990 | 70.000 | 0.7380 | 30.000 | 0.4190 | 0.6084 |
| MSH | DFS | -2221.80 | 32.7350 | -102.400 | 1.7710 | -40.500 | 0.7700 | 0.6241 |
| MSH | EST | 911.60 | 0.6610 | 59.400 | 0.9090 | 29.800 | 0.5200 | 0.5929 |
| MSH | GBR | 197.00 | 1.3230 | 17.800 | 2.1250 | 8.000 | 1.3150 | 0.6241 |
| MSH | IRL | 828.91 | 1.8796 | 50.294 | 2.3744 | 25.100 | 1.4638 | 0.5476 |
| MSH | LTU | 238.93 | 0.8887 | 31.802 | 1.0246 | 11.539 | 0.7380 | 0.5625 |
| MSH | LVA | 720.00 | 1.1420 | 48.000 | 1.5350 | 22.700 | 0.9940 | 0.5929 |
| MSH | NLD | 1497.77 | 0.4264 | 93.456 | 0.6419 | 44.888 | 0.3152 | 0.6084 |
| MSH | NOR | -1637.10 | 26.6240 | -79.500 | 1.4450 | -32.400 | 0.6540 | 0.6241 |
| MSH | NZL | 338.10 | 0.8530 | 51.300 | 1.0810 | 18.900 | 0.7140 | 0.4356 |
| MSH | USA | 310.70 | 0.5240 | 20.200 | 0.7820 | 9.200 | 0.4440 | 0.7921 |
| MSH | ZAF | 355.55 | 0.5627 | 25.265 | 0.8842 | 10.059 | 0.4903 | 0.6400 |

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 Conversion Factors For SCS Traits. Source: INTERBULL 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = SCORR2*Foreign Reliability

| breed | country2 | a | b | scorr2 |
|-------|----------|---------|----------|--------|
| MSH | AUS | 98.800 | -19.3140 | 0.7396 |
| MSH | CAN | 15.700 | 0.8780 | 0.7921 |
| MSH | DEU | 64.700 | 0.3760 | 0.7921 |
| MSH | DFS | 63.000 | 0.4160 | 0.7921 |
| MSH | EST | 74.000 | 0.2930 | 0.7744 |
| MSH | GBR | 102.800 | -0.4880 | 0.7921 |
| MSH | LTU | 102.580 | -14.3723 | 0.7569 |
| MSH | LVA | 102.500 | -0.0120 | 0.7569 |
| MSH | NLD | -35.271 | 1.4308 | 0.7921 |
| MSH | NOR | 65.300 | 0.3870 | 0.7744 |
| MSH | NZL | 98.300 | -12.3980 | 0.7225 |
| MSH | USA | 169.200 | -22.3260 | 0.6724 |
| MSH | ZAF | 104.057 | -0.2116 | 0.7744 |

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 Conversion Factors For Type. Source = INTERBULL MACE 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=AUS

c c f
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|-----|------------------------|-----|----------------------|--------|---------|-----|
| MSH | CONFORMATION | AUS | CONFORMATION | 3.515 | 4.0698 | 0.5 |
| 2 | | | | | | |
| MSH | FEET AND LEGS | AUS | OVERALL FEET & LEG | 2.054 | 6.7070 | |
| MSH | MAMMARY SYSTEM | AUS | OVERALL UDDER SCORE | 4.221 | 3.8460 | |
| MSH | STATURE | AUS | STATURE | -0.386 | 8.5072 | |
| MSH | CHEST WIDTH | AUS | CHEST WIDTH | 3.146 | 12.3346 | |
| MSH | BODY DEPTH | AUS | BODY DEPTH | 2.187 | 8.7532 | |
| MSH | PIN WIDTH | AUS | RUMP WIDTH | 0.490 | 11.7279 | |
| MSH | RUMP ANGLE | AUS | RUMP ANGLE | -2.810 | 11.7610 | |
| MSH | FOOT ANGLE | AUS | FOOT ANGLE | -0.424 | 19.8013 | |
| MSH | REAR LEGS SIDE VIEW | AUS | REAR LEG SET | 1.934 | 24.4921 | |
| MSH | REAR LEG REAR VIEW | AUS | REAR LEG REAR VIEW | 0.882 | 24.9803 | |
| MSH | UDDER DEPTH | AUS | UDDER DEPTH | -0.699 | 7.7272 | |
| MSH | MEDIAN SUSPENSORY | AUS | MEDIAN SUSPENSORY | 1.498 | 14.6284 | |
| MSH | FORE ATTACHMENT | AUS | FORE UDDER | 3.908 | 14.1266 | |
| MSH | TEAT PLACEMENT | AUS | FRONT TEAT PLACEMENT | 3.488 | 11.3902 | |
| MSH | TEAT LENGTH | AUS | TEAT LENGTH | 0.420 | 12.1031 | |
| MSH | REAR ATTACHMENT HEIGHT | AUS | REAR UDDER HEIGHT | 0.823 | 11.0660 | |
| MSH | REAR TEAT PLACEMENT | AUS | REAR TEAT PLACEMENT | 0.989 | 14.6374 | |
| MSH | ANGULARITY | AUS | ANGULARITY | 3.040 | 12.6825 | |

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 Conversion Factors For Type. Source = INTERBULL MACE 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=CAN

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|--------|------------------------|--------|----------------------|--------|--------|--------|
| MSH | CONFORMATION | CAN | CONFORMATION | 7.009 | 0.7885 | 0.5 |
| 8 | | | | | | |
| MSH | FEET AND LEGS | CAN | OVERALL FEET & LEG | 7.352 | 1.0527 | |
| MSH | MAMMARY SYSTEM | CAN | OVERALL UDDER SCORE | 10.509 | 0.9242 | |
| MSH | STATURE | CAN | STATURE | 4.998 | 0.8717 | |
| MSH | CHEST WIDTH | CAN | CHEST WIDTH | 1.062 | 0.7363 | |
| MSH | BODY DEPTH | CAN | BODY DEPTH | 1.451 | 0.7129 | |
| MSH | PIN WIDTH | CAN | RUMP WIDTH | 5.300 | 0.9137 | |
| MSH | RUMP ANGLE | CAN | RUMP ANGLE | 0.453 | 0.8740 | |
| MSH | FOOT ANGLE | CAN | FOOT ANGLE | 4.018 | 0.9245 | |
| MSH | REAR LEGS SIDE VIEW | CAN | REAR LEG SET | -1.237 | 0.7806 | |
| MSH | REAR LEG REAR VIEW | CAN | REAR LEG REAR VIEW | 3.926 | 0.7594 | |
| MSH | UDDER DEPTH | CAN | UDDER DEPTH | 3.259 | 0.7244 | |
| MSH | MEDIAN SUSPENSORY | CAN | MEDIAN SUSPENSORY | 4.958 | 0.8145 | |
| MSH | FORE ATTACHMENT | CAN | FORE UDDER | 8.754 | 0.8765 | |
| MSH | TEAT PLACEMENT | CAN | FRONT TEAT PLACEMENT | 3.529 | 1.0411 | |
| MSH | TEAT LENGTH | CAN | TEAT LENGTH | -4.877 | 1.3832 | |
| MSH | REAR ATTACHMENT HEIGHT | CAN | REAR UDDER HEIGHT | 8.609 | 0.9644 | |
| MSH | REAR TEAT PLACEMENT | CAN | REAR TEAT PLACEMENT | 2.890 | 0.9764 | |
| MSH | ANGULARITY | CAN | ANGULARITY | 7.123 | 0.7312 | |

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Conversion Factors For Type. Source = INTERBULL MACE 2304
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEU

| b r e e d | c a n t r y 2 | c o u n t r y 2 | f o r e i g n c o u n t r y 2 | a v e r a g e | b v a r i a n c e | t c o r r e c t i o n |
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| MSH | FEET AND LEGS | DEU | OVERALL FEET & LEG | -24.680 | 0.3381 |
| MSH | MAMMARY SYSTEM | DEU | OVERALL UDDER SCORE | -23.643 | 0.3362 |
| MSH | STATURE | DEU | STATURE | -34.620 | 0.4168 |
| MSH | CHEST WIDTH | DEU | CHEST WIDTH | -38.983 | 0.4282 |
| MSH | BODY DEPTH | DEU | BODY DEPTH | -39.505 | 0.4263 |
| MSH | PIN WIDTH | DEU | RUMP WIDTH | -47.138 | 0.5394 |
| MSH | RUMP ANGLE | DEU | RUMP ANGLE | -56.407 | 0.5372 |
| MSH | FOOT ANGLE | DEU | FOOT ANGLE | -31.972 | 0.4025 |
| MSH | REAR LEGS SIDE VIEW | DEU | REAR LEG SET | -67.609 | 0.6290 |
| MSH | REAR LEG REAR VIEW | DEU | REAR LEG REAR VIEW | -43.461 | 0.5050 |
| MSH | UDDER DEPTH | DEU | UDDER DEPTH | -27.662 | 0.3175 |
| MSH | MEDIAN SUSPENSORY | DEU | MEDIAN SUSPENSORY | -36.802 | 0.4109 |
| MSH | FORE ATTACHMENT | DEU | FORE UDDER | -33.960 | 0.4161 |
| MSH | TEAT PLACEMENT | DEU | FRONT TEAT PLACEMENT | -42.627 | 0.4671 |
| MSH | TEAT LENGTH | DEU | TEAT LENGTH | -56.976 | 0.5034 |
| MSH | REAR ATTACHMENT HEIGHT | DEU | REAR UDDER HEIGHT | -30.730 | 0.3750 |
| MSH | REAR TEAT PLACEMENT | DEU | REAR TEAT PLACEMENT | -37.619 | 0.3857 |
| MSH | ANGULARITY | DEU | ANGULARITY | -74.507 | 0.7988 |

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 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DFS

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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 |
| MSH | CONFORMATION | DFS | CONFORMATION | -44.289 | 0.4607 | 0.5 |
| 8 | | | | | | |
| MSH | FEET AND LEGS | DFS | OVERALL FEET & LEG | -33.570 | 0.3994 | |
| MSH | MAMMARY SYSTEM | DFS | OVERALL UDDER SCORE | -44.851 | 0.5393 | |

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|-----|------------------------|-----|----------------------|---------|--------|
| MSH | STATURE | DFS | STATURE | -59.954 | 0.6318 |
| MSH | CHEST WIDTH | DFS | CHEST WIDTH | -36.463 | 0.3923 |
| MSH | BODY DEPTH | DFS | BODY DEPTH | -38.361 | 0.3767 |
| MSH | PIN WIDTH | DFS | RUMP WIDTH | -48.859 | 0.5246 |
| MSH | RUMP ANGLE | DFS | RUMP ANGLE | -48.912 | 0.4975 |
| MSH | FOOT ANGLE | DFS | FOOT ANGLE | -61.436 | 0.6461 |
| MSH | REAR LEGS SIDE VIEW | DFS | REAR LEG SET | -58.725 | 0.6038 |
| MSH | REAR LEG REAR VIEW | DFS | REAR LEG REAR VIEW | -41.873 | 0.4664 |
| MSH | UDDER DEPTH | DFS | UDDER DEPTH | -34.968 | 0.3927 |
| MSH | MEDIAN SUSPENSORY | DFS | MEDIAN SUSPENSORY | -34.817 | 0.3577 |
| MSH | FORE ATTACHMENT | DFS | FORE UDDER | -38.554 | 0.4623 |
| MSH | TEAT PLACEMENT | DFS | FRONT TEAT PLACEMENT | -47.244 | 0.5140 |
| MSH | TEAT LENGTH | DFS | TEAT LENGTH | -70.072 | 0.6489 |
| MSH | REAR ATTACHMENT HEIGHT | DFS | REAR UDDER HEIGHT | -47.889 | 0.5204 |
| MSH | REAR TEAT PLACEMENT | DFS | REAR TEAT PLACEMENT | -43.966 | 0.4364 |
| MSH | ANGULARITY | DFS | ANGULARITY | -59.297 | 0.6198 |

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Conversion Factors For Type. Source = INTERBULL MACE 2304
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=GBR

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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 |
| MSH | FEET AND LEGS | GBR | OVERALL FEET & LEG | 6.650 | 3.5050 | |
| MSH | MAMMARY SYSTEM | GBR | OVERALL UDDER SCORE | 10.674 | 3.5672 | |
| MSH | STATURE | GBR | STATURE | 2.074 | 4.3266 | |
| MSH | CHEST WIDTH | GBR | CHEST WIDTH | 4.063 | 3.0870 | |

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|-----|------------------------|-----|----------------------|--------|--------|
| MSH | BODY DEPTH | GBR | BODY DEPTH | 3.123 | 2.7833 |
| MSH | PIN WIDTH | GBR | RUMP WIDTH | 4.279 | 3.8883 |
| MSH | RUMP ANGLE | GBR | RUMP ANGLE | -1.083 | 3.1605 |
| MSH | FOOT ANGLE | GBR | FOOT ANGLE | 2.061 | 3.9261 |
| MSH | REAR LEGS SIDE VIEW | GBR | REAR LEG SET | -2.064 | 3.2436 |
| MSH | UDDER DEPTH | GBR | UDDER DEPTH | 2.698 | 2.3247 |
| MSH | MEDIAN SUSPENSORY | GBR | MEDIAN SUSPENSORY | 4.261 | 2.8278 |
| MSH | FORE ATTACHMENT | GBR | FORE UDDER | 9.472 | 3.5008 |
| MSH | TEAT PLACEMENT | GBR | FRONT TEAT PLACEMENT | 6.143 | 4.1055 |
| MSH | TEAT LENGTH | GBR | TEAT LENGTH | -5.101 | 4.8411 |
| MSH | REAR ATTACHMENT HEIGHT | GBR | REAR UDDER HEIGHT | 7.282 | 3.8356 |
| MSH | ANGULARITY | GBR | ANGULARITY | 3.599 | 4.3913 |

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Conversion Factors For Type. Source = INTERBULL MACE 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=LVA

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| r | r | t | r | | l | l |
| e | a | r | a | | u | u |
| e | i | y | i | | e | e |
| d | t | 2 | t | | | |
| MSH | STATURE | LVA | STATURE | -8.765 | 8.6671 | |
| MSH | CHEST WIDTH | LVA | CHEST WIDTH | -1.518 | 16.3333 | |
| MSH | BODY DEPTH | LVA | BODY DEPTH | -2.325 | 12.7936 | |
| MSH | PIN WIDTH | LVA | RUMP WIDTH | -3.730 | 14.1117 | |
| MSH | RUMP ANGLE | LVA | RUMP ANGLE | -9.272 | 11.7474 | |
| MSH | FOOT ANGLE | LVA | FOOT ANGLE | 1.591 | 24.2284 | |
| MSH | REAR LEGS SIDE VIEW | LVA | REAR LEG SET | -12.812 | 20.4559 | |
| MSH | REAR LEG REAR VIEW | LVA | REAR LEG REAR VIEW | 0.180 | 23.5853 | |
| MSH | UDDER DEPTH | LVA | UDDER DEPTH | -4.196 | 9.8424 | |

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|-----|------------------------|-----|----------------------|---------|---------|
| MSH | MEDIAN SUSPENSORY | LVA | MEDIAN SUSPENSORY | -2.670 | 16.1858 |
| MSH | FORE ATTACHMENT | LVA | FORE UDDER | -4.002 | 16.2508 |
| MSH | TEAT PLACEMENT | LVA | FRONT TEAT PLACEMENT | -3.656 | 16.2885 |
| MSH | TEAT LENGTH | LVA | TEAT LENGTH | -10.556 | 14.1012 |
| MSH | REAR ATTACHMENT HEIGHT | LVA | REAR UDDER HEIGHT | -7.158 | 14.3863 |
| MSH | REAR TEAT PLACEMENT | LVA | REAR TEAT PLACEMENT | -8.208 | 14.9950 |
| MSH | ANGULARITY | LVA | ANGULARITY | -8.577 | 21.0824 |

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Conversion Factors For Type. Source = INTERBULL MACE 2304
Converted Canadian Proof = A + (B* Foreign Proof)
Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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| e | a | r | a | | u | u |
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| d | t | 2 | t | | | 2 |
| MSH | CONFORMATION | NLD | CONFORMATION | -121.368 | 1.3972 | 0.6 |
| 1 | | | | | | |
| MSH | FEET AND LEGS | NLD | OVERALL FEET & LEG | -61.272 | 0.7130 | |
| MSH | MAMMARY SYSTEM | NLD | OVERALL UDDER SCORE | -108.386 | 1.3011 | |
| MSH | STATURE | NLD | STATURE | -93.930 | 1.1146 | |
| MSH | CHEST WIDTH | NLD | CHEST WIDTH | -88.132 | 0.9929 | |
| MSH | BODY DEPTH | NLD | BODY DEPTH | -78.090 | 0.9082 | |
| MSH | PIN WIDTH | NLD | RUMP WIDTH | -76.016 | 0.8745 | |
| MSH | RUMP ANGLE | NLD | RUMP ANGLE | -85.387 | 0.8546 | |
| MSH | FOOT ANGLE | NLD | FOOT ANGLE | -103.619 | 1.1353 | |
| MSH | REAR LEGS SIDE VIEW | NLD | REAR LEG SET | -108.199 | 1.0204 | |
| MSH | REAR LEG REAR VIEW | NLD | REAR LEG REAR VIEW | -87.986 | 0.9665 | |
| MSH | UDDER DEPTH | NLD | UDDER DEPTH | -87.948 | 0.9736 | |
| MSH | MEDIAN SUSPENSORY | NLD | MEDIAN SUSPENSORY | -99.345 | 1.0714 | |

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|-----|------------------------|-----|----------------------|----------|--------|
| MSH | FORE ATTACHMENT | NLD | FORE UDDER | -121.032 | 1.3746 |
| MSH | TEAT PLACEMENT | NLD | FRONT TEAT PLACEMENT | -119.351 | 1.3099 |
| MSH | TEAT LENGTH | NLD | TEAT LENGTH | -132.950 | 1.3112 |
| MSH | REAR ATTACHMENT HEIGHT | NLD | REAR UDDER HEIGHT | -108.050 | 1.2820 |
| MSH | REAR TEAT PLACEMENT | NLD | REAR TEAT PLACEMENT | -100.470 | 1.0675 |
| MSH | ANGULARITY | NLD | ANGULARITY | -88.364 | 1.0806 |

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

country2=NOR

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| e | a | r | a | | u | u |
| e | i | y | i | | e | e |
| d | t | 2 | t | | | 2 |
| MSH | CONFORMATION | NOR | CONFORMATION | -29.933 | 0.3028 | 0.5 |
| 8 | | | | | | |
| MSH | FEET AND LEGS | NOR | OVERALL FEET & LEG | -37.784 | 0.3892 | |
| MSH | MAMMARY SYSTEM | NOR | OVERALL UDDER SCORE | -40.886 | 0.4144 | |
| MSH | STATURE | NOR | STATURE | -41.889 | 0.4034 | |
| MSH | CHEST WIDTH | NOR | CHEST WIDTH | -29.510 | 0.3564 | |
| MSH | BODY DEPTH | NOR | BODY DEPTH | -29.462 | 0.2861 | |
| MSH | PIN WIDTH | NOR | RUMP WIDTH | -33.434 | 0.3970 | |
| MSH | RUMP ANGLE | NOR | RUMP ANGLE | -39.112 | 0.4107 | |
| MSH | FOOT ANGLE | NOR | FOOT ANGLE | -42.778 | 0.4441 | |
| MSH | REAR LEGS SIDE VIEW | NOR | REAR LEG SET | -43.925 | 0.4488 | |
| MSH | REAR LEG REAR VIEW | NOR | REAR LEG REAR VIEW | -36.328 | 0.3804 | |
| MSH | UDDER DEPTH | NOR | UDDER DEPTH | -30.744 | 0.2921 | |
| MSH | MEDIAN SUSPENSORY | NOR | MEDIAN SUSPENSORY | -41.998 | 0.3958 | |
| MSH | FORE ATTACHMENT | NOR | FORE UDDER | -41.563 | 0.4395 | |
| MSH | TEAT PLACEMENT | NOR | FRONT TEAT PLACEMENT | -44.013 | 0.4353 | |

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| MSH | TEAT LENGTH | NOR | TEAT LENGTH | -60.702 | 0.5417 |
| MSH | REAR ATTACHMENT HEIGHT | NOR | REAR UDDER HEIGHT | -43.669 | 0.4140 |
| MSH | REAR TEAT PLACEMENT | NOR | REAR TEAT PLACEMENT | -39.206 | 0.3946 |
| MSH | ANGULARITY | NOR | ANGULARITY | -40.108 | 0.3631 |

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

country2=NZL

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| d | t | 2 | t | | | 2 |
| MSH | CONFORMATION | NZL | CONFORMATION | 1.324 | 16.5976 | 0.5 |
| 3 | | | | | | |
| MSH | MAMMARY SYSTEM | NZL | OVERALL UDDER SCORE | 1.624 | 15.4983 | |
| MSH | STATURE | NZL | STATURE | -6.301 | 11.2058 | |
| MSH | CHEST WIDTH | NZL | CHEST WIDTH | 3.442 | 14.7199 | |
| MSH | BODY DEPTH | NZL | BODY DEPTH | 1.030 | 12.5391 | |
| MSH | PIN WIDTH | NZL | RUMP WIDTH | 0.033 | 16.8050 | |
| MSH | RUMP ANGLE | NZL | RUMP ANGLE | -4.120 | 17.6441 | |
| MSH | REAR LEGS SIDE VIEW | NZL | REAR LEG SET | 1.815 | 44.9164 | |
| MSH | MEDIAN SUSPENSORY | NZL | MEDIAN SUSPENSORY | -0.868 | 14.8557 | |
| MSH | FORE ATTACHMENT | NZL | FORE UDDER | 2.022 | 14.5252 | |
| MSH | TEAT PLACEMENT | NZL | FRONT TEAT PLACEMENT | -1.897 | 23.2752 | |
| MSH | TEAT LENGTH | NZL | TEAT LENGTH | 0.644 | 18.7479 | |
| MSH | REAR ATTACHMENT HEIGHT | NZL | REAR UDDER HEIGHT | 2.017 | 15.7829 | |
| MSH | REAR TEAT PLACEMENT | NZL | REAR TEAT PLACEMENT | -3.496 | 16.4219 | |

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Conversion Factors For Type. Source = INTERBULL MACE 2304
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

| | c a n t r e e d | c o u n t r y 2 | f o r e i g n | a v e r a g e | b v a l u e | t c o r r e c t i o n |
|-----|--------------------------------------|--------------------------------------|---------------------------------|---------------------------------|----------------------------|---|
| MSH | CONFORMATION | USA | CONFORMATION | 7.848 | 8.8185 | 0.6 |
| MSH | FEET AND LEGS | USA | OVERALL FEET & LEG | 5.781 | 3.9313 | |
| MSH | MAMMARY SYSTEM | USA | OVERALL UDDER SCORE | 10.218 | 5.7132 | |
| MSH | STATURE | USA | STATURE | 5.009 | 2.3285 | |
| MSH | CHEST WIDTH | USA | CHEST WIDTH | 3.079 | 4.0333 | |
| MSH | BODY DEPTH | USA | BODY DEPTH | 3.561 | 3.3429 | |
| MSH | PIN WIDTH | USA | RUMP WIDTH | 5.335 | 3.8718 | |
| MSH | RUMP ANGLE | USA | RUMP ANGLE | -1.135 | 3.0549 | |
| MSH | FOOT ANGLE | USA | FOOT ANGLE | 2.668 | 5.5761 | |
| MSH | REAR LEGS SIDE VIEW | USA | REAR LEG SET | -3.140 | 6.0154 | |
| MSH | REAR LEG REAR VIEW | USA | REAR LEG REAR VIEW | 3.788 | -5.5102 | |
| MSH | UDDER DEPTH | USA | UDDER DEPTH | 3.060 | 3.1847 | |
| MSH | MEDIAN SUSPENSORY | USA | MEDIAN SUSPENSORY | 2.759 | 4.1429 | |
| MSH | FORE ATTACHMENT | USA | FORE UDDER | 8.707 | 3.6164 | |
| MSH | TEAT PLACEMENT | USA | FRONT TEAT PLACEMENT | 3.752 | 4.3108 | |
| MSH | TEAT LENGTH | USA | TEAT LENGTH | -3.380 | 4.1602 | |
| MSH | REAR ATTACHMENT HEIGHT | USA | REAR UDDER HEIGHT | 8.339 | 3.9007 | |
| MSH | REAR TEAT PLACEMENT | USA | REAR TEAT PLACEMENT | 2.854 | 3.9919 | |
| MSH | ANGULARITY | USA | ANGULARITY | 7.805 | 4.9106 | |

 CALCULATION OF FAT% AND PROTEIN% FOR APRIL 2023

BREED BMILK BFAT BPRT
 ----- ----- ----- -----

| | | | |
|-----|-------|-----|-----|
| AYS | 8071 | 337 | 277 |
| BSW | 8728 | 369 | 313 |
| CN | 5590 | 242 | 201 |
| GUE | 7470 | 339 | 257 |
| JER | 7090 | 366 | 276 |
| HOL | 10959 | 437 | 361 |
| MS | 6969 | 278 | 237 |

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

EXAMPLE:

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

$EBVFAT\% = 200 * [(437 + 50 * 0.5) / (10959 + 1000 * 0.5) - (437 / 11E3)]$
 $= 200 * [(437 + 25) / (10959 + 500) - (0.03988)]$
 $= 200 * [0.04032 - 0.03988]$
 $= 200 * 0.00044$
 $= 0.09$

$EBVPROT\% = 200 * [(361 + 40 * 0.5) / (10959 + 1000 * 0.5) - (361 / 11E3)]$
 $= 200 * [(361 + 20) / (10959 + 500) - (0.03294)]$
 $= 200 * [0.03325 - 0.03294]$
 $= 200 * 0.00031$
 $= 0.06$