
 Conversion Factors For Production Traits. Source: INTERBULL 1208

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

| breed | country2 | amilk | bmilk | afat | bfat | aprot | bprot | pcorr2 |
|-------|----------|---------|-------|---------|-------|---------|-------|--------|
| BSW | CHE | -469.92 | 1.279 | -15.939 | 1.323 | -14.421 | 1.391 | 0.7744 |
| BSW | DEU | -135.77 | 1.268 | 0.853 | 1.436 | 1.187 | 1.418 | 0.7569 |
| BSW | FRA | -73.12 | 0.833 | -0.943 | 0.861 | 1.416 | 0.895 | 0.7744 |
| BSW | GBR | -293.90 | 2.153 | -9.873 | 2.408 | -8.187 | 2.590 | 0.7569 |
| BSW | ITA | -270.86 | 1.092 | -7.478 | 1.202 | -4.773 | 1.079 | 0.7921 |
| BSW | NLD | 1420.76 | 1.203 | 42.585 | 1.122 | 45.168 | 1.308 | 0.7921 |
| BSW | NZL | 194.51 | 1.384 | 35.338 | 1.409 | 13.025 | 1.595 | 0.5776 |
| BSW | SVN | -922.04 | 4.250 | -38.269 | 4.546 | -34.041 | 4.886 | 0.7569 |
| BSW | USA | -40.69 | 0.865 | -1.248 | 0.955 | -1.310 | 1.015 | 0.7921 |

 Conversion Factors For SCS Traits. Source: INTERBULL 1208

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

| breed | country2 | a | b | scorr2 |
|-------|----------|--------|--------|--------|
| BSW | CHE | 5.164 | -0.022 | 0.8464 |
| BSW | DEU | 4.892 | -0.019 | 0.8281 |
| BSW | FRA | 2.951 | -0.236 | 0.8281 |
| BSW | GBR | 2.980 | 0.016 | 0.8464 |
| BSW | ITA | 4.774 | -0.017 | 0.8649 |
| BSW | NLD | -2.432 | 0.052 | 0.7921 |
| BSW | NZL | 3.054 | 0.495 | 0.6084 |
| BSW | USA | -0.002 | 0.993 | 0.8100 |

 Conversion Factors For Type. Source = INTERBULL MACE 1208

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

country2=CHE

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| d | t | 2 | t | e | e | |
| BSW CONFORMATION | | CHE FINAL SCORE | | -1.092 | 9.3987 | 0.72 |
| BSW FEET AND LEGS | | CHE OVERALL FEET & LEG | | -0.207 | 5.2374 | |
| BSW MAMMARY SYSTEM | | CHE OVERALL UDDER SCORE | | 0.087 | 7.0759 | |
| BSW STATURE | | CHE STATURE | | -3.510 | 6.4003 | |
| BSW CHEST WIDTH | | CHE CHEST WIDTH | | 3.425 | 8.4706 | |
| BSW BODY DEPTH | | CHE BODY DEPTH | | -1.203 | 7.5839 | |
| BSW PIN WIDTH | | CHE RUMP WIDTH | | 3.536 | 6.5085 | |

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|----------------------------|--------------------------|--------|---------|
| BSW RUMP ANGLE | CHE RUMP ANGLE | 0.860 | 6.2431 |
| BSW FOOT ANGLE | CHE FOOT ANGLE | -0.848 | 2.6036 |
| BSW HEEL DEPTH | CHE HEEL DEPTH | 0.808 | 6.9367 |
| BSW REAR LEGS SIDE VIEW | CHE REAR LEG SET | 1.683 | 5.2115 |
| BSW UDDER DEPTH | CHE UDDER DEPTH | -0.611 | 6.2884 |
| BSW MEDIAN SUSPENSORY | CHE MEDIAN SUSPENSORY | -2.073 | 6.7043 |
| BSW FORE ATTACHMENT | CHE FORE UDDER | 0.095 | -1.6565 |
| BSW FRONT TEAT PLACEMENT | CHE FRONT TEAT PLACEMENT | -0.594 | 5.9744 |
| BSW TEAT LENGTH | CHE TEAT LENGTH | -2.851 | 3.7835 |
| BSW REAR ATTACHMENT HEIGHT | CHE REAR UDDER HEIGHT | -0.803 | 6.3801 |
| BSW REAR ATTACHMENT WIDTH | CHE REAR UDDER WIDTH | -1.057 | 7.7719 |
| BSW REAR TEAT PLACEMENT | CHE REAR TEAT PLACEMENT | -2.139 | 6.3474 |
| BSW ANGULARITY | CHE ANGULARITY | -4.826 | -4.5074 |

Conversion Factors For Type. Source = INTERBULL MACE 1208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=DEA

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| BSW CONFORMATION | DEA CONFORMATION | -40.895 | 0.3766 | 0.50 |
| BSW FEET AND LEGS | DEA OVERALL FEET & LEG | -28.236 | 0.2793 | |
| BSW MAMMARY SYSTEM | DEA OVERALL UDDER SCORE | -63.614 | 0.6129 | |
| BSW STATURE | DEA STATURE | -61.014 | 0.5730 | |
| BSW CHEST WIDTH | DEA CHEST WIDTH | -51.406 | 0.5260 | |
| BSW BODY DEPTH | DEA BODY DEPTH | -63.164 | 0.6110 | |
| BSW PIN WIDTH | DEA RUMP WIDTH | -49.272 | 0.4920 | |
| BSW RUMP ANGLE | DEA RUMP ANGLE | -49.169 | 0.5002 | |
| BSW FOOT ANGLE | DEA FOOT ANGLE | -21.604 | 0.2043 | |
| BSW HEEL DEPTH | DEA HEEL DEPTH | -60.456 | 0.5968 | |
| BSW REAR LEGS SIDE VIEW | DEA REAR LEG SET | -50.412 | 0.5041 | |
| BSW UDDER DEPTH | DEA UDDER DEPTH | -50.081 | 0.4846 | |
| BSW MEDIAN SUSPENSORY | DEA MEDIAN SUSPENSORY | -63.435 | 0.6059 | |
| BSW FORE ATTACHMENT | DEA FORE UDDER | -44.106 | 0.4453 | |
| BSW FRONT TEAT PLACEMENT | DEA FRONT TEAT PLACEMENT | -64.620 | 0.6282 | |
| BSW TEAT LENGTH | DEA TEAT LENGTH | -41.951 | 0.4140 | |
| BSW REAR ATTACHMENT HEIGHT | DEA REAR UDDER HEIGHT | -45.198 | 0.4292 | |
| BSW REAR ATTACHMENT WIDTH | DEA REAR UDDER WIDTH | -56.469 | 0.5412 | |
| BSW REAR TEAT PLACEMENT | DEA REAR TEAT PLACEMENT | -70.876 | 0.6709 | |

Conversion Factors For Type. Source = INTERBULL MACE 1208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=FRA

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| BSW CONFORMATION | FRA OVERALL SCORE | -2.767 | 8.5628 | 0.79 |
| BSW FEET AND LEGS | FRA OVERALL FEET & LEG | -0.839 | 0.1949 | |
| BSW MAMMARY SYSTEM | FRA OVERALL UDDER SCORE | -2.823 | 7.3243 | |
| BSW STATURE | FRA STATURE | -2.798 | 6.9535 | |
| BSW CHEST WIDTH | FRA CHEST DEPTH | 0.151 | 5.8551 | |
| BSW BODY DEPTH | FRA BODY DEPTH | -1.203 | 6.3192 | |
| BSW PIN WIDTH | FRA RUMP WIDTH | -0.523 | 5.2620 | |
| BSW RUMP ANGLE | FRA RUMP ANGLE | 1.615 | 6.0863 | |
| BSW FOOT ANGLE | FRA HEEL DEPTH | 0.054 | 4.6427 | |
| BSW HEEL DEPTH | FRA HEEL DEPTH | 0.206 | 8.3628 | |
| BSW REAR LEGS SIDE VIEW | FRA REAR LEG SET | -0.350 | 6.2051 | |
| BSW UDDER DEPTH | FRA UDDER DEPTH | -2.728 | 5.7714 | |
| BSW MEDIAN SUSPENSORY | FRA MEDIAN SUSPENSORY | -1.367 | 7.0620 | |
| BSW FORE ATTACHMENT | FRA FORE UDDER | -1.353 | 2.8407 | |
| BSW FRONT TEAT PLACEMENT | FRA FRONT TEAT PLACEMENT | -2.819 | 7.0893 | |
| BSW TEAT LENGTH | FRA TEAT LENGTH | 0.396 | 5.1308 | |
| BSW REAR ATTACHMENT HEIGHT | FRA REAR UDDER HEIGHT | -1.047 | 6.6892 | |
| BSW REAR ATTACHMENT WIDTH | FRA REAR UDDER WIDTH | -1.956 | 8.5000 | |
| BSW REAR TEAT PLACEMENT | FRA REAR TEAT PLACEMENT | -2.725 | 7.8386 | |
| BSW ANGULARITY | FRA ANGULARITY | -3.472 | 7.7714 | |

Conversion Factors For Type. Source = INTERBULL MACE 1208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=ITA

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| BSW CONFORMATION | ITA FINAL SCORE | -64.339 | 0.5714 | 0.59 |
| BSW FEET AND LEGS | ITA OVERALL FEET & LEG | -26.846 | 0.2583 | |
| BSW MAMMARY SYSTEM | ITA OVERALL UDDER SCORE | -55.130 | 0.4944 | |
| BSW STATURE | ITA STATURE | -52.443 | 0.4722 | |
| BSW CHEST WIDTH | ITA STRENGTH | -33.465 | 0.3282 | |
| BSW BODY DEPTH | ITA BODY DEPTH | -43.686 | 0.4047 | |
| BSW RUMP ANGLE | ITA RUMP ANGLE | -36.611 | 0.3766 | |
| BSW FOOT ANGLE | ITA FOOT ANGLE | -37.014 | 0.3503 | |
| BSW HEEL DEPTH | ITA HEEL DEPTH | -43.971 | 0.4253 | |
| BSW REAR LEGS SIDE VIEW | ITA REAR LEG SET | -37.961 | 0.3860 | |
| BSW UDDER DEPTH | ITA UDDER DEPTH | -38.273 | 0.3552 | |
| BSW MEDIAN SUSPENSORY | ITA MEDIAN SUSPENSORY | -57.179 | 0.5269 | |
| BSW FORE ATTACHMENT | ITA FORE UDDER | 7.681 | -0.0772 | |
| BSW TEAT LENGTH | ITA TEAT LENGTH | -32.481 | 0.3247 | |

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| BSW REAR ATTACHMENT HEIGHT | ITA REAR UDDER HEIGHT | -44.948 | 0.4072 |
| BSW REAR ATTACHMENT WIDTH | ITA REAR UDDER WIDTH | -57.386 | 0.5198 |
| BSW REAR TEAT PLACEMENT | ITA REAR TEAT PLACEMENT | -52.701 | 0.4859 |

Conversion Factors For Type. Source = INTERBULL MACE 1208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=NLD

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| BSW CONFORMATION | NLD CONFORMATION | -140.230 | 1.3542 | 0.53 |
| BSW FEET AND LEGS | NLD OVERALL FEET & LEG | 78.287 | -0.7015 | |
| BSW MAMMARY SYSTEM | NLD OVERALL UDDER SCORE | -153.777 | 1.6124 | |
| BSW STATURE | NLD STATURE | -131.995 | 1.3063 | |
| BSW CHEST WIDTH | NLD CHEST WIDTH | -212.185 | 2.0926 | |
| BSW BODY DEPTH | NLD BODY DEPTH | -162.537 | 1.6699 | |
| BSW PIN WIDTH | NLD RUMP WIDTH | -169.950 | 1.8823 | |
| BSW RUMP ANGLE | NLD RUMP ANGLE | -145.129 | 1.4311 | |
| BSW FOOT ANGLE | NLD FOOT ANGLE | -75.625 | 0.6502 | |
| BSW HEEL DEPTH | NLD HEEL DEPTH | -180.863 | 1.5762 | |
| BSW REAR LEGS SIDE VIEW | NLD REAR LEG SET | -128.942 | 1.3784 | |
| BSW UDDER DEPTH | NLD UDDER DEPTH | -138.053 | 1.3861 | |
| BSW MEDIAN SUSPENSORY | NLD MEDIAN SUSPENSORY | -133.579 | 1.4079 | |
| BSW FORE ATTACHMENT | NLD FORE UDDER | -165.672 | 1.6824 | |
| BSW TEAT PLACEMENT | NLD FRONT TEAT PLACEMENT | -165.451 | 1.6302 | |
| BSW TEAT LENGTH | NLD TEAT LENGTH | -88.802 | 0.8512 | |
| BSW REAR ATTACHMENT HEIGHT | NLD REAR UDDER HEIGHT | -111.267 | 1.2224 | |
| BSW REAR ATTACHMENT WIDTH | NLD REAR UDDER WIDTH | -87.985 | 0.9591 | |
| BSW REAR TEAT PLACEMENT | NLD REAR TEAT PLACEMENT | -168.056 | 1.7172 | |
| BSW ANGULARITY | NLD ANGULARITY | -123.153 | 1.3173 | |

Conversion Factors For Type. Source = INTERBULL MACE 1208
 Converted Canadian Proof = A + (B* Foreign Proof)
 Converted Proof Reliability = TCORR2*Foreign Reliability

country2=USA

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| BSW CONFORMATION | USA PTA TYPE (FINAL SCORE) | 1.242 | 11.4755 | 0.77 |

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| BSW FEET AND LEGS | USA OVERALL FEET & LEG | 0.319 | -0.0543 |
| BSW MAMMARY SYSTEM | USA OVERALL UDDER SCORE | 1.150 | 6.8582 |
| BSW STATURE | USA STATURE | -0.229 | 4.4654 |
| BSW CHEST WIDTH | USA STRENGTH | 0.918 | 8.9824 |
| BSW PIN WIDTH | USA RUMP WIDTH | 1.156 | 9.1280 |
| BSW RUMP ANGLE | USA RUMP ANGLE | -0.586 | 5.5852 |
| BSW FOOT ANGLE | USA FOOT ANGLE | 0.020 | 8.0034 |
| BSW REAR LEGS SIDE VIEW | USA REAR LEG SET | 0.123 | 8.6011 |
| BSW UDDER DEPTH | USA UDDER DEPTH | -0.144 | 4.9119 |
| BSW MEDIAN SUSPENSORY | USA UDDER CLEFT | 1.367 | 6.2603 |
| BSW FORE ATTACHMENT | USA FORE UDDER ATTACHMENT | 0.600 | 5.6885 |
| BSW FRONT TEAT PLACEMENT | USA FRONT TEAT PLACEMENT | -0.028 | 5.8740 |
| BSW TEAT LENGTH | USA TEAT LENGTH | 0.034 | 3.6358 |
| BSW REAR ATTACHMENT HEIGHT | USA REAR UDDER HEIGHT | 1.127 | 5.7531 |
| BSW REAR ATTACHMENT WIDTH | USA REAR UDDER WIDTH | 1.052 | 8.0134 |
| BSW ANGULARITY | USA ANGULARITY | 1.017 | 6.1805 |

CALCULATION OF FAT% AND PROTEIN% FOR AUGUST 2012

| BREED | BMILK | BFAT | BPRT |
|-------|-------|-------|-------|
| ----- | ----- | ----- | ----- |
| AYS | 7378 | 299 | 248 |
| BSW | 8038 | 329 | 280 |
| CN | 5803 | 247 | 204 |
| GUE | 6752 | 303 | 229 |
| JER | 6320 | 311 | 241 |
| HOL | 9670 | 364 | 310 |
| MS | 6617 | 241 | 218 |

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

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

EXAMPLE :

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

$$\begin{aligned}
 EBVFAT\% &= 200 * [(364 + 50 * .5) / (9670 + 1000 * .5) - (364 / 9670)] \\
 &= 200 * [(364 + 25) / (9670 + 500) - (0.03764)] \\
 &= 200 * [0.03825 - 0.03764] \\
 &= 200 * 0.00061 \\
 &= 0.12
 \end{aligned}$$

$$\begin{aligned}
 EBVPROT\% &= 200 * [(310 + 40 * .5) / (9670 + 1000 * .5) - (310 / 9670)] \\
 &= 200 * [(310 + 20) / (9670 + 500) - (0.03206)] \\
 &= 200 * [0.03245 - 0.03206] \\
 &= 200 * 0.00039 \\
 &= 0.08
 \end{aligned}$$