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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 |
|-------|----------|----------|---------|----------|--------|----------|--------|--------|
| JER | AUS | 8.60 | 1.2590 | -8.400 | 1.6790 | -3.700 | 1.3050 | 0.4761 |
| JER | CHE | 22.65 | 1.5490 | 18.270 | 1.3863 | 7.735 | 1.3883 | 0.6400 |
| JER | DEU | 155.68 | 0.9024 | 25.217 | 1.0503 | 13.391 | 0.9192 | 0.7921 |
| JER | DFS | -5961.10 | 59.6200 | -167.700 | 2.1520 | -145.800 | 1.6630 | 0.7744 |
| JER | GBR | -34.30 | 2.7100 | 7.200 | 2.9020 | 0.300 | 2.6490 | 0.6724 |
| JER | IRL | 411.40 | 2.5380 | -31.000 | 3.6880 | -3.700 | 2.1810 | 0.5329 |
| JER | ITA | -84.41 | 1.0016 | 9.737 | 0.9217 | 1.779 | 0.8700 | 0.7396 |
| JER | NLD | 2589.35 | 0.9116 | 51.235 | 0.9123 | 65.797 | 0.8603 | 0.7396 |
| JER | NZL | 78.80 | 1.3950 | -3.600 | 1.2270 | -1.800 | 1.1480 | 0.3969 |
| JER | USA | 717.40 | 0.7530 | 20.400 | 0.9100 | 20.700 | 0.8190 | 0.7744 |
| JER | ZAF | 76.60 | 1.4149 | 7.825 | 1.4080 | 4.235 | 1.3654 | 0.6561 |

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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 |
|-------|----------|---------|----------|--------|
| JER | AUS | 97.400 | -17.6540 | 0.5929 |
| JER | CHE | 60.863 | 0.4170 | 0.7744 |
| JER | DFS | 61.400 | 0.4420 | 0.8281 |
| JER | GBR | 100.300 | -0.4630 | 0.8464 |
| JER | ITA | 24.206 | 0.7492 | 0.7569 |
| JER | NLD | -29.609 | 1.3954 | 0.8281 |
| JER | NZL | 97.400 | -9.5440 | 0.4489 |
| JER | USA | 195.200 | -31.4990 | 0.8100 |
| JER | ZAF | 100.879 | -0.2446 | 0.7225 |

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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

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JER CONFORMATION AUS GENERAL APPEARANCE -3.331 3.7050 0.29

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|----------------------------|--------------------------|---------|---------|
| JER FEET AND LEGS | AUS OVERALL FEET & LEG | -39.285 | 0.3728 |
| JER MAMMARY SYSTEM | AUS OVERALL UDDER SCORE | -3.041 | 5.5501 |
| JER STATURE | AUS STATURE | -5.774 | 11.1025 |
| JER CHEST WIDTH | AUS CHEST WIDTH | 1.539 | 16.2536 |
| JER BODY DEPTH | AUS BODY DEPTH | 1.849 | 13.0019 |
| JER PIN WIDTH | AUS PIN WIDTH | -0.498 | 15.6648 |
| JER RUMP ANGLE | AUS RUMP ANGLE | 0.221 | 14.3362 |
| JER FOOT ANGLE | AUS FOOT ANGLE | -3.404 | 16.7387 |
| JER REAR LEGS SIDE VIEW | AUS REAR LEG SET | 3.066 | 23.0077 |
| JER REAR LEG REAR VIEW | AUS REAR LEG REAR VIEW | -4.092 | 11.4385 |
| JER UDDER DEPTH | AUS UDDER DEPTH | -5.970 | 14.2886 |
| JER MEDIAN SUSPENSORY | AUS MEDIAN SUSPENSORY | -1.007 | 12.2744 |
| JER FORE ATTACHMENT | AUS FORE UDDER | -4.067 | 11.2587 |
| JER FRONT TEAT PLACEMENT | AUS FRONT TEAT PLACEMENT | -0.432 | 12.3656 |
| JER TEAT LENGTH | AUS TEAT LENGTH | -0.130 | 15.6573 |
| JER REAR ATTACHMENT HEIGHT | AUS REAR UDDER HEIGHT | -2.703 | 14.1162 |
| JER REAR TEAT PLACEMENT | AUS REAR TEAT PLACEMENT | -0.756 | 17.3120 |
| JER ANGULARITY | AUS ANGULARITY | -3.935 | 12.9308 |

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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=CHE

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| d | t | 2 | t | e | e | 2 |
| JER CONFORMATION | CHE CONFORMATION | -57.334 | 0.5470 | 0.69 | | |
| JER FEET AND LEGS | CHE OVERALL FEET & LEG | -39.940 | 0.3794 | | | |
| JER MAMMARY SYSTEM | CHE OVERALL UDDER SCORE | -53.976 | 0.5235 | | | |
| JER STATURE | CHE STATURE | -58.020 | 0.5563 | | | |
| JER CHEST WIDTH | CHE CHEST WIDTH | -46.173 | 0.4666 | | | |
| JER BODY DEPTH | CHE BODY DEPTH | -38.107 | 0.3830 | | | |
| JER PIN WIDTH | CHE RUMP WIDTH | -47.543 | 0.4539 | | | |
| JER RUMP ANGLE | CHE RUMP ANGLE | -41.408 | 0.4353 | | | |
| JER FOOT ANGLE | CHE FOOT ANGLE | -46.128 | 0.4330 | | | |
| JER REAR LEGS SIDE VIEW | CHE REAR LEG SET | -60.456 | 0.6186 | | | |
| JER REAR LEG REAR VIEW | CHE REAR LEG REAR VIEW | -38.915 | 0.3608 | | | |
| JER UDDER DEPTH | CHE UDDER DEPTH | -52.665 | 0.5266 | | | |
| JER MEDIAN SUSPENSORY | CHE MEDIAN SUSPENSORY | -56.191 | 0.5558 | | | |
| JER FORE ATTACHMENT | CHE FORE UDDER | -47.136 | 0.4428 | | | |
| JER TEAT PLACEMENT | CHE FRONT TEAT PLACEMENT | -62.534 | 0.6085 | | | |
| JER TEAT LENGTH | CHE TEAT LENGTH | -45.281 | 0.4461 | | | |
| JER REAR ATTACHMENT HEIGHT | CHE REAR UDDER HEIGHT | -50.451 | 0.4895 | | | |
| JER REAR TEAT PLACEMENT | CHE REAR TEAT PLACEMENT | -56.559 | 0.5516 | | | |
| JER ANGULARITY | CHE ANGULARITY | 60.480 | -0.6273 | | | |

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

country2=DFS

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| d | t | 2 | t | e | e | 2 |
| JER CONFORMATION | DFS CONFORMATION | -28.790 | 0.2439 | 0.40 | | |
| JER FEET AND LEGS | DFS OVERALL FEET & LEG | -28.204 | 0.2596 | | | |
| JER MAMMARY SYSTEM | DFS OVERALL UDDER SCORE | -44.248 | 0.4195 | | | |
| JER STATURE | DFS STATURE | -57.534 | 0.5428 | | | |
| JER CHEST WIDTH | DFS CHEST WIDTH | -33.874 | 0.3291 | | | |
| JER BODY DEPTH | DFS BODY DEPTH | -39.015 | 0.3598 | | | |
| JER PIN WIDTH | DFS RUMP WIDTH | -52.229 | 0.4854 | | | |
| JER RUMP ANGLE | DFS RUMP ANGLE | -46.844 | 0.4809 | | | |
| JER FOOT ANGLE | DFS FOOT ANGLE | -45.250 | 0.4377 | | | |
| JER REAR LEGS SIDE VIEW | DFS REAR LEG SET | -41.143 | 0.4478 | | | |
| JER REAR LEG REAR VIEW | DFS REAR LEG REAR VIEW | -41.399 | 0.3638 | | | |
| JER UDDER DEPTH | DFS UDDER DEPTH | -40.180 | 0.4174 | | | |
| JER MEDIAN SUSPENSORY | DFS MEDIAN SUSPENSORY | -46.502 | 0.4206 | | | |
| JER FORE ATTACHMENT | DFS FORE UDDER | -42.068 | 0.3975 | | | |
| JER TEAT PLACEMENT | DFS FRONT TEAT PLACEMENT | -50.073 | 0.4696 | | | |
| JER TEAT LENGTH | DFS TEAT LENGTH | -37.108 | 0.3673 | | | |
| JER REAR ATTACHMENT HEIGHT | DFS REAR UDDER HEIGHT | -56.476 | 0.5381 | | | |
| JER REAR TEAT PLACEMENT | DFS REAR TEAT PLACEMENT | -49.871 | 0.4520 | | | |
| JER ANGULARITY | DFS ANGULARITY | -52.012 | 0.4807 | | | |

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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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| d | t | 2 | t | e | e | 2 |
| JER FEET AND LEGS | GBR OVERALL FEET & LEG | -0.999 | 2.3718 | | | |
| JER MAMMARY SYSTEM | GBR OVERALL UDDER SCORE | -1.177 | 3.6261 | | | |
| JER STATURE | GBR STATURE | -4.199 | 5.8471 | | | |
| JER CHEST WIDTH | GBR CHEST WIDTH | 0.550 | 3.2733 | | | |
| JER BODY DEPTH | GBR BODY DEPTH | 0.574 | 3.2097 | | | |
| JER PIN WIDTH | GBR RUMP WIDTH | -1.719 | 4.1570 | | | |
| JER RUMP ANGLE | GBR RUMP ANGLE | -0.179 | 4.4490 | | | |

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| JER FOOT ANGLE | GBR FOOT ANGLE | -1.698 | 3.3861 |
| JER REAR LEGS SIDE VIEW | GBR REAR LEG SET | 1.333 | 3.0381 |
| JER UDDER DEPTH | GBR UDDER DEPTH | -0.141 | 3.7147 |
| JER MEDIAN SUSPENSORY | GBR MEDIAN SUSPENSORY | -0.726 | 3.2016 |
| JER FORE ATTACHMENT | GBR FORE UDDER | -1.110 | 3.2997 |
| JER TEAT PLACEMENT | GBR FRONT TEAT PLACEMENT | 0.042 | 4.4605 |
| JER TEAT LENGTH | GBR TEAT LENGTH | -0.275 | 3.5471 |
| JER REAR ATTACHMENT HEIGHT | GBR REAR UDDER HEIGHT | -2.589 | 3.9990 |
| JER ANGULARITY | GBR ANGULARITY | -4.469 | 5.0049 |

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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=ITA

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| JER CONFORMATION | ITA CONFORMATION | -3.484 | 2.8364 | 0.49 |
| JER FEET AND LEGS | ITA OVERALL FEET & LEG | -1.247 | 1.7530 | |
| JER MAMMARY SYSTEM | ITA OVERALL UDDER SCORE | -3.727 | 3.1897 | |
| JER STATURE | ITA STATURE | -5.967 | 4.0696 | |
| JER CHEST WIDTH | ITA CHEST WIDTH | 0.100 | 3.0778 | |
| JER BODY DEPTH | ITA BODY DEPTH | 0.160 | 2.5784 | |
| JER PIN WIDTH | ITA RUMP WIDTH | -3.815 | 3.7580 | |
| JER RUMP ANGLE | ITA RUMP ANGLE | 0.299 | 3.2883 | |
| JER FOOT ANGLE | ITA FOOT ANGLE | -1.730 | 3.2665 | |
| JER REAR LEGS SIDE VIEW | ITA REAR LEG SET | 1.557 | 2.7771 | |
| JER REAR LEG REAR VIEW | ITA REAR LEG REAR VIEW | -2.660 | 3.4990 | |
| JER UDDER DEPTH | ITA UDDER DEPTH | -2.909 | 3.1064 | |
| JER MEDIAN SUSPENSORY | ITA MEDIAN SUSPENSORY | -1.194 | 2.7864 | |
| JER FORE ATTACHMENT | ITA FORE UDDER | -3.975 | 3.2555 | |
| JER TEAT PLACEMENT | ITA FRONT TEAT PLACEMENT | -2.111 | 3.3105 | |
| JER TEAT LENGTH | ITA TEAT LENGTH | -0.568 | 2.9275 | |
| JER REAR ATTACHMENT HEIGHT | ITA REAR UDDER HEIGHT | -2.875 | 3.6682 | |
| JER ANGULARITY | ITA ANGULARITY | -3.709 | 4.2318 | |

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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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| JER CONFORMATION | NLD CONFORMATION | -102.602 | 1.1333 | 0.52 |
| JER FEET AND LEGS | NLD OVERALL FEET & LEG | -73.964 | 0.6726 | |
| JER MAMMARY SYSTEM | NLD OVERALL UDDER SCORE | -106.552 | 1.1373 | |
| JER STATURE | NLD STATURE | -90.872 | 1.2383 | |
| JER CHEST WIDTH | NLD CHEST WIDTH | -100.991 | 1.3397 | |
| JER BODY DEPTH | NLD BODY DEPTH | -81.888 | 1.0056 | |
| JER PIN WIDTH | NLD RUMP WIDTH | -93.923 | 1.1782 | |
| JER RUMP ANGLE | NLD RUMP ANGLE | -109.397 | 1.1541 | |
| JER FOOT ANGLE | NLD FOOT ANGLE | -106.385 | 1.1583 | |
| JER REAR LEGS SIDE VIEW | NLD REAR LEG SET | -158.705 | 1.5366 | |
| JER REAR LEG REAR VIEW | NLD REAR LEG REAR VIEW | -118.761 | 1.0867 | |
| JER UDDER DEPTH | NLD UDDER DEPTH | -106.284 | 1.2167 | |
| JER MEDIAN SUSPENSORY | NLD MEDIAN SUSPENSORY | -108.535 | 1.1228 | |
| JER FORE ATTACHMENT | NLD FORE UDDER | -106.576 | 1.1186 | |
| JER TEAT PLACEMENT | NLD FRONT TEAT PLACEMENT | -111.999 | 1.1554 | |
| JER TEAT LENGTH | NLD TEAT LENGTH | -120.148 | 1.1499 | |
| JER REAR ATTACHMENT HEIGHT | NLD REAR UDDER HEIGHT | -119.123 | 1.2266 | |
| JER REAR TEAT PLACEMENT | NLD REAR TEAT PLACEMENT | -126.729 | 1.3105 | |
| JER ANGULARITY | NLD ANGULARITY | -91.585 | 1.0077 | |

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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=NZL

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|----------------------------|--------------------------|---------|---------|------|
| JER CONFORMATION | NZL OVERALL CONFORMATION | -9.803 | 9.5136 | 0.32 |
| JER MAMMARY SYSTEM | NZL OVERALL UDDER SCORE | -10.636 | 10.3217 | |
| JER STATURE | NZL STATURE | 2.271 | 15.7022 | |
| JER CHEST WIDTH | NZL CHEST WIDTH | 5.691 | 12.6208 | |
| JER BODY DEPTH | NZL BODY DEPTH | 3.519 | 10.2317 | |
| JER PIN WIDTH | NZL RUMP WIDTH | 3.173 | 16.9283 | |
| JER RUMP ANGLE | NZL RUMP ANGLE | 1.162 | 17.0604 | |
| JER REAR LEGS SIDE VIEW | NZL REAR LEG SET | 0.237 | 34.9192 | |
| JER MEDIAN SUSPENSORY | NZL MEDIAN SUSPENSORY | -5.642 | 9.5108 | |
| JER FORE ATTACHMENT | NZL FORE UDDER | -7.542 | 9.7231 | |
| JER FRONT TEAT PLACEMENT | NZL FRONT TEAT PLACEMENT | -5.535 | 19.4061 | |
| JER TEAT LENGTH | NZL TEAT LENGTH | -0.158 | 10.1785 | |
| JER REAR ATTACHMENT HEIGHT | NZL REAR UDDER HEIGHT | -10.897 | 11.7529 | |
| JER REAR TEAT PLACEMENT | NZL REAR TEAT PLACEMENT | -2.490 | 14.3823 | |

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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 r a l i t | a v e r a g e | b v a r i a n c e | t o t a l r e l i a b i l i t y |
|----------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------|---|--|
| JER CONFORMATION | | USA PTA TYPE (FINAL SCORE) | | -1.173 | 4.7258 | 0.62 |
| JER FEET AND LEGS | | USA OVERALL FEET & LEG | | -1.598 | 2.3487 | |
| JER MAMMARY SYSTEM | | USA OVERALL UDDER SCORE | | -0.535 | 5.8483 | |
| JER STATURE | | USA STATURE | | -0.543 | 3.7852 | |
| JER CHEST WIDTH | | USA STRENGTH | | -0.586 | 5.9865 | |
| JER BODY DEPTH | | USA BODY DEPTH | | 0.297 | 4.3044 | |
| JER PIN WIDTH | | USA THURL WIDTH | | -0.304 | 5.1248 | |
| JER RUMP ANGLE | | USA RUMP ANGLE | | 1.915 | 4.4092 | |
| JER FOOT ANGLE | | USA FOOT ANGLE | | -2.273 | 6.6636 | |
| JER REAR LEGS SIDE VIEW | | USA REAR LEGS - SIDE VIEW | | 1.875 | 6.6136 | |
| JER REAR LEG REAR VIEW | | USA REAR LEG REAR VIEW | | -2.365 | -4.9839 | |
| JER UDDER DEPTH | | USA UDDER DEPTH | | -1.872 | 2.9205 | |
| JER MEDIAN SUSPENSORY | | USA UDDER CLEFT | | -0.102 | 5.4561 | |
| JER FORE ATTACHMENT | | USA FORE UDDER ATTACHMENT | | -2.020 | 3.6109 | |
| JER FRONT TEAT PLACEMENT | | USA FRONT TEAT PLACEMENT | | -0.560 | 4.5906 | |
| JER TEAT LENGTH | | USA TEAT LENGTH | | -0.410 | 4.8865 | |
| JER REAR ATTACHMENT HEIGHT | | USA REAR UDDER HEIGHT | | -0.800 | 4.4721 | |
| JER REAR TEAT PLACEMENT | | USA REAR TEAT PLACEMENT | | 0.287 | 4.3712 | |
| JER ANGULARITY | | USA DAIRY FORM | | -0.161 | 5.8324 | |

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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=ZAF

| | c a n t r e e d | c o u n t r y 2 | f o r r a l i t | a v e r a g e | b v a r i a n c e | t o t a l r e l i a b i l i t y |
|-----------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------|---|--|
| JER STATURE | | ZAF STATURE | | -70.261 | 0.6509 | |
| JER CHEST WIDTH | | ZAF CHEST WIDTH | | -59.723 | 0.5958 | |
| JER BODY DEPTH | | ZAF BODY DEPTH | | -46.931 | 0.4681 | |
| JER PIN WIDTH | | ZAF RUMP WIDTH | | -54.454 | 0.5375 | |
| JER RUMP ANGLE | | ZAF RUMP ANGLE | | -56.241 | 0.5713 | |
| JER FOOT ANGLE | | ZAF FOOT ANGLE | | -45.662 | 0.4360 | |

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| JER REAR LEGS SIDE VIEW | ZAF REAR LEG SET | -33.459 | 0.3522 |
| JER REAR LEG REAR VIEW | ZAF REAR LEG REAR VIEW | -30.245 | 0.2764 |
| JER UDDER DEPTH | ZAF UDDER DEPTH | -48.906 | 0.4678 |
| JER MEDIAN SUSPENSORY | ZAF MEDIAN SUSPENSORY | -50.091 | 0.4931 |
| JER FORE ATTACHMENT | ZAF FORE UDDER | -47.215 | 0.4401 |
| JER TEAT PLACEMENT | ZAF FRONT TEAT PLACEMENT | -59.422 | 0.5859 |
| JER TEAT LENGTH | ZAF TEAT LENGTH | -47.341 | 0.4652 |
| JER REAR ATTACHMENT HEIGHT | ZAF REAR UDDER HEIGHT | -55.518 | 0.5350 |
| JER REAR TEAT PLACEMENT | ZAF REAR TEAT PLACEMENT | -62.380 | 0.6123 |
| JER ANGULARITY | ZAF ANGULARITY | -57.716 | 0.5571 |

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

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

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