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Difference in Predicted Transmitting Abilities of cows born in 2015 from those born in 2010, and implemented in the April 2020 genetic base change¹.

Trait / Index	Ayrshire	Brown Swiss	Guernsey	Holstein	Jersey	Milking Shorthorn
Milk, lb.	182	214	150	492	524	36
Fat, lb.	6	8	6	24	25	2
Protein, lb.	6	8	4	18	20	2
Somatic Cell Score, score	-0.01	0.00	0.00	-0.08	0.00	<u>0.02</u>
Productive Life, months	0.12	0.24	0.90	1.86	1.54	0.63
Daughter Pregnancy Rate, %	<u>-0.47</u>	<u>-0.62</u>	<u>-0.12</u>	0.24	<u>-0.99</u>	<u>-0.53</u>
Heifer Conception Rate, %	<u>-0.45</u>	<u>-0.24</u>	0.04	0.50	0.44	<u>-0.20</u>
Cow Conception Rate, %	<u>-0.50</u>	<u>-0.74</u>	<u>-0.17</u>	0.38	<u>-0.90</u>	<u>-0.50</u>
Early First Calving, days	1.1	0.5	0.5	1.5	1.4	0.0
Gestation Length ² , days	-0.29	-0.03	-0.04	-0.35	0.30	0.26
Cow Livability, %	<u>-0.28</u>	<u>-0.28</u>	0.01	0.74	0.08	<u>-0.06</u>
Displaced Abomasum, %	—	—	—	0.13	—	—
Ketosis, %	—	—	—	0.40	—	—
Mastitis, %	—	—	—	0.73	—	—
Metritis, %	—	—	—	0.45	—	—

Milk Fever, %	—	—	—	0.00	—	—
Retained Placenta, %	—	—	—	0.00	—	—
Calving Difficulty ² , %	—	0.0	—	-0.6	—	—
Daughter Calving Difficulty ² , %	—	-0.6	—	-1.9	—	—
Service Sire Stillbirth ² , %	—	—	—	-0.3	—	—
Daughter Stillbirth ² , %	—	—	—	-1.6	—	—
Final Score	0.5	0.4	0.4	0.76	0.7	0.1
Stature	0.7	0.6	0.1	0.47	0.5	0.2
Strength	0.3	0.2	0.0	0.20	0.0	0.0
Dairy Form	0.3	0.3	0.1	0.38	0.4	0.2
Foot Angle	0.1	0.1	0.2	0.50	0.1	0.0
Feet and Leg Score	—	—	—	0.54	—	—
Rear Legs-Side View	-0.2	0.1	-0.1	-0.02	0.0	0.0
Rear Legs-Rear View	—	—	—	0.49	—	—
Body Depth	—	—	—	0.14	—	—
Rump Angle	-0.1	0.0	-0.1	-0.02	0.4	-0.1
Rump Width	0.4	0.1	0.1	0.36	0.1	0.1
Fore Udder Attachment	0.4	0.3	0.5	1.01	0.7	0.2
Rear Udder Height	0.4	0.3	0.4	1.20	0.6	0.1
Rear Udder Width	0.4	0.3	0.3	1.16	0.2	0.1
Udder Depth	0.3	0.2	0.3	0.84	0.9	0.2
Udder Cleft	0.3	0.1	0.2	0.54	0.1	0.0
Front Teat Placement	0.2	0.3	0.4	0.52	0.3	0.1
Rear Teat Placement	—	—	—	0.49	—	—
Teat Length	0.2	-0.2	-0.1	-0.27	0.0	-0.2
Body Weight Composite	—	—	—	0.15	—	—
Feet and Leg Composite	—	—	—	0.49	—	—
Udder Composite	—	—	—	0.85	—	—

Lifetime Net Merit, dollars	121	60	77	231	191	45
Lifetime Cheese Merit, dollars	123	63	77	239	196	45
Lifetime Fluid Merit, dollars	117	56	78	219	179	42
Lifetime Grazing Merit, dollars	108	38	62	207	142	25

¹Values that are underlined indicate undesirable genetic change.

²Completed information for this trait is not yet available for 2015, so it is replaced by the most recent annual average available.

Sources

Norman, H. D. and co-workers 2020. U.S. Council on Dairy Cattle Breeding. <https://www.uscdcb.com/cdcb-changes-to-evaluation-system-april-2020/>

Norman, H. D. and co-workers 2020. U.S. Council on Dairy Cattle Breeding. https://www.uscdcb.com/wp-content/uploads/2020/02/Norman-et-al-Genetic-Base-Change-April-2020-FINAL_new.pdf