



Heritability Estimates Used for Genetic Evaluation in Canada

March 30, 2021

Production Trait	HO	AY	JE	BS	GU	CN	MS
Milk Yield	28	32	33	28	31	31	31
Fat Yield	26	26	27	22	25	25	25
Protein Yield	26	29	29	25	28	28	28
Fat Percentage	Not Directly Used - Literature estimate is ~50%						
Protein Percentage	Not Directly Used - Literature estimate is ~50%						

Functional Traits	HO	AY	JE	BS	GU	CN	MS
Feed Efficiency	5	Not evaluated					
Herd Life	10						
Mastitis Resistance	12	12	12	Not evaluated			

Metabolic Disease Resistance	7	7	7	Not evaluated			
Hoof Health	9	Not evaluated					
Lactation Persistency	20	23	21	17	21	21	21
Somatic Cell Score	18	16	18	19	18	18	18
Daughter Fertility	4	7	3	4			
Milking Speed	14						
Milking Temperament	13						
Calving Ability	3	4	2	3			
Daughter Calving Ability	7	6	9	7			
Body Condition Score	21	17	17	18			

Major Type Trait	HO	AY	JE	BS	GU	CN	MS
Conformation (Final Score)	20	22	18	20			
Mammary System	24	18	18	18			
Feed & Legs	13	18	10	14			
Dairy Strength	23	28	17	23			
Rump	26	15	13	14			

Descriptive Type Trait	HO	AY	JE	SB	GU	CN	SL
Udder Floor	21	18	13		15		
Udder Depth	44	36	42		39		
Udder Texture	12	16	11		13		
Median Suspensory	17	19	17		18		
Fore Attachment	27	24	25		24		
Fore Teat Placement	27	24	24		24		
Rear Attachment Height	25	25	24		24		
Rear Attachment Width	18	20	19		19		
Rear Teat Placement	29	27	28		27		
Teat Length	32	31	25		28		
Foot Angle	7	7	8		8		
Heel Depth	8	9	7		8		
Bone Quality	26	34	18		26		
Rear Legs Side View	20	19	14		17		
Rear Legs Rear View	11	16	9		12		
Front Leg View	11	7	10		8		
Locomotion	5	8	-		5		

Stature	46	47	30	39
Height at Front End	23	17	18	18
Chest Width	20	16	14	15
Body Depth	31	30	25	28
Dairy Capacity	18	18	13	16
Loin Strength	19	16	18	17
Rump Angle	41	33	31	32
Pin Width	32	33	19	26
Thurl Placement	23	17	15	16