

DHI-429 HEIFER GENETICS MONITOR

Genomic testing provides highly reliable insights to the genetic potential of heifers. In fact, genomic testing doubles the accuracy when compared to parent averages alone. An exciting element of this process is you can test heifers with unknown parents. If their sire or maternal grandsire is an AI bull, you will receive their identities in addition to the genotype.

The Heifer Genetics Monitor (DHI-429) is a new report available to all DRMS clients. It helps you closely monitor the genetic value of both current heifers and heifers expected be born soon. The two listings have a different purpose, but both enable you to make early decisions to help increase the herd's genetic value.

Both lists follow the herd's option for Merit\$:

NM\$ = Net Merit\$; **CM\$** = Cheese Merit\$; **FM\$** = Fluid Merit\$; **GM\$** = Grazing Merit\$

MAKE CULLING & BREEDING DECISIONS FOR CURRENT HEIFERS

List 1 presents all heifers in three columns

- Heifer records are sorted by Projected Heifer Cow Rank (PHCR) with the best heifers listed first. Heifers without parent averages appear last. *PHCR are percentiles which pinpoint each heifer's rank of Merit\$ within the cow herd based on either the heifer's parent average for Merit\$ or her own genomic Merit\$ if available. PCHR shows the heifer's genetic potential for delivering Merit\$ relative to the Merit\$ level of the current milking herd. Heifers with a PHCR of 99 have genetic potential that is higher than the genetic potential of 99% of the current milking cows. Heifers with PHCR less than 50 usually should not be used to produce the next generation. This is because, depending on their age, it could be as long as two years before they are milking and the genetic potential of the herd should continue to improve. Heifers with potential less than the midpoint of the herd usually reduce the herd average.*
- Age is expressed in months
- Heifer Flag: These percentiles indicate the heifer's rank in the heifer herd based on either parent average Merit\$ or the heifer's genomic Merit\$ (G). Heifers with 'N20' are in the top 20% nationally for Merit\$ and have the best flushing potential. *Heifers at the top of the list that have not been genomic tested are candidates to be tested to find elites for breeding or flushing. Consider genomic testing the bottom heifers to find potential culls.*

List 1: All Heifers						List 1: All Heifers						List 1: All Heifers					
Barn Name	Brd	Age	Hfr Flag	NM\$	Prj Hfr Cow Rank	Barn Name	Brd	Age	Hfr Flag	NM\$	Prj Hfr Cow Rank	Barn Name	Brd	Age	Hfr Flag	NM\$	Prj Hfr Cow Rank
1113	HO	16	N 20	+662 G	99	1123	HO	13	P 59	+378 G	93	1071	HO	24	P 19	+231 G	62
1143	HO	7	N 20	+554 G	99	1080	HO	21	P 58	+373	93	1167	HO	3	P 19	+231	62
1082	HO	21	N 20	+554 G	99	1180	HO	<1	P 57	+369	92	1107	HO	17	P 17	+229 G	61
1151	HO	6	N 20	+545 G	99	1127	HO	11	P 55	+368	92	1169	HO	2	P 16	+218	59
1132	HO	9	N 20	+530 G	99	1175	HO	1	P 55 S	+368	92	1093	HO	20	P 15	+213 G	58
1159	HO	5	P 94	+520	99	1139	HO	8	P 54	+366 G	92	1102	HO	18	P 14	+208 G	57
1178	HO	<1	P 92	+516	99	1098	HO	18	P 53	+361 G	91	1106	HO	17	P 13	+201 G	55
1158	HO	5	N 20	+516 G	99	1090	HO	20	P 52	+353 G	91	1077	HO	22	P 11	+187 G	50
1136	HO	8	N 20	+511 G	99	1121	HO	13	P 51	+349 G	90	1096	HO	19	P 11	+187 G	50
1170	HO	26	P 89	+502	99	1174	HO	2	P 50	+347	90	1065	HO	25	P 11	+187 G	50
1171	HO	2	P 89	+502	99	1142	HO	8	P 49	+345 G	89	1114	HO	15	P 09	+185 G	50
1172	HO	2	P 89	+502	99	1117	HO	15	P 48	+339 G	88	1086	HO	21	P 08	+180 G	49
1112	HO	16	N 20	+499 G	99	1150	HO	6	P 47	+338 G	88	1100	HO	18	P 07	+152 G	44
1066	HO	24	P 86	+490 G	99	1055	HO	27	P 46	+320	83	1076	HO	22	P 06	+150 G	44
1152	HO	6	N 20	+489 G	99	1147	HO	7	P 45	+317 G	83	1104	HO	17	P 05	+148 G	44
1119	HO	14	N 20	+488 G	99	1165	HO	4	P 44	+309 G	82	1083	HO	21	P 04	+128 G	36
1155	HO	5	N 20	+477 G	98	1101	HO	18	P 43	+308 G	82	1145	HO	7	P 03 D	+126	35
1140	HO	8	N 20	+474 G	98	1164	HO	4	P 42	+307 G	82	1128	HO	11	P 02 D	+121	31
1105	HO	17	N 20	+473 G	98	1108	HO	17	P 41	+306 G	82	1088	HO	20	P 01	+73 G	22
1134	HO	9	P 80	+461 G	98	1129	HO	11	P 40	+305 G	82	1177	HO	<1	P 00 D	+53	21
1161	HO	5	P 79	+456 G	98	1091	HO	20	P 39	+304 G	82	1138	HO	8	P 00 D	+47	19
1124	HO	12	P 78	+455 G	98	1154	HO	5	P 38	+301 G	82	1179	XX	<1	P 83	+508	99
1126	HO	12	P 77	+444 G	97	1081	HO	21	P 37	+282 G	80	1156	XX	5	P 66 S	+335	86
1125	HO	12	P 76	+440 G	97	1099	HO	18	P 36	+280 G	80	1148	XX	6	P 50 S	+287	80

PREPARE FOR EXPECTED CALVES

List 2 presents expected offspring of cows or heifers due within the next 60 days in two columns.

- Expected Offspring records are sorted by due date with the earliest births listed first. Heifers without parent averages will appear last.
- Lact No. indicates the dam's lactation number and 'H' animals are heifers.
- PA NM\$ is the parent average Merit\$ and may be expressed as NM\$, CM\$, FM\$ or GM\$.
- Projected Offspring Heifer Rank is similar to *Heifer Flag* on list 1, except it is for expected offspring.
- Projected Offspring Cow Rank is similar to *Projected Heifer Cow Rank* on list 1, except it is for expected offspring.
- G in Service Sire ID = Genomically Tested; S in Service Sire ID = Sexed Semen

List 2: Offspring of Preg. Cows & Heifers (Due <= 60)									
Barn Name	Lact No.	(sort)	Offspring			Service Sire			
		Due Date	PA NM\$	Prj Offsp Hfr Rank	Prj Offsp Cow Rank	ID	NM\$	NM\$ Rank	
1058	H	3-07	+499	72	99	7HO12212	G	+736	99
1066	H	3-12	+639	98	99	1HO11056	G	+788	99
1072	H	4-02	+530	87	99	1HO10396	G	+807	99
1070	H	4-02	+529	86	99	7HO12014	G	+659	99
1077	H	4-02	+453	39	98	1HO11528	G	+719	99
1161A	1	4-02	+450	38	97	7HO12105	G	+683	99
1065	H	4-02	+352	13	91	1HO11022	G	+518	96
1013	1	4-10	+628	97	99	1HO11056	G	+788	99
1079	H	4-15	+461	44	98	7HO12169	G	+678	99
1082	H	4-25	+606	96	99	7HO12014	G	+659	99
1084	H	4-25	+494	68	99	7HO12212	G	+736	99
1083	H	4-25	+393	20	94	7HO12014	G	+659	99
1020	1	5-01	+524	84	99	7HO12105	G	+683	99
978	2	5-02	+320	0	83	7HO12220	G	+678	99
1073	H	5-06	+490	64	99	1HO11528	G	+719	99
1076	H	5-06	+443	36	97	7HO11525	G	+736	99
1022	1	5-07	+367	15	92	29HO16714	G	+667	99
1081	H	5-14	+480	58	98	7HO12169	G	+678	99
1019	1	5-21	+388	18	93	29HO16701	G	+612	99
1198A	1	5-21	+329	10	85	1HO10788	G	+554	98
1182A	1	5-22	+399	22	94	1HO11072	G	+665	99
1085	H	5-30	+494	68	99	7HO11525	G	+736	99
1071	H	5-30	+483	60	98	7HO12212	G	+736	99

GENOMIC & DHI DATA IN ONE REPORT

To get the greatest benefit from genomics, tools such as the Heifer Genomics Monitor are critical. The Monitor enables you to make informed decisions about current and expected heifers from a genomics perspective to help increase the value of genetics in your herd. To receive the report for your herd, request it from your DHI Technician, local DHIA office or DRMS. Cost is 3¢ per cow or a maximum of \$20.