

IGENITY® Profile Expands

Comprehensive DNA profile sets a new standard for longevity prediction

October 1, 2006 — This piece is designed to give you information about the expanding IGENITY® profile. It is provided as a resource to help you educate your audience on the exciting category of DNA technology and animal profiling.

New traits in the IGENITY profile

- The IGENITY profile now includes analysis specifically for productive life, which helps balance production with longer-lasting cows.
- IGENITY also has added markers to the analysis of dairy form. Dairy form has been linked to increase days open and health problems.
- These analyses combine to set a new standard for the prediction of longevity — earlier than ever before.

Comprehensive profile

- IGENITY was the first to adopt a profile approach to DNA analysis.
- In addition to productive life and dairy form, the current profile evaluates genetic potential for milk production traits, coat color, cheese production proteins and genetic recessives, including CVM.
- As new markers are discovered and validated, IGENITY will continue to add them to enhance the profile, making it easy for producers and managers to keep track of their options and gain inside information about their cattle. Current improvements in analyzing potential for longevity are a good example.
- The profile approach also makes it possible for producers and managers to keep up with the addition of new analyses, as archived samples can be used to learn more about cattle previously profiled.

IGENITY scores

- Using the power of DNA, IGENITY helps producers understand and manage the potential for animals to perform and to transmit traits of economic importance.

(more)

- The IGENITY profile scores range from a low of 1 to a high of 10 for each economically important trait analyzed. Below is a list of the economically important traits currently included in an IGENITY profile and the value associated with each score.

IGENITY Profile Score	Milk Yield*	Fat*	Protein*	Dairy Form**	Productive Life (months)**
10	1,501	61.7	30.5	-4.32	3.44
9	1,348	56.2	-	-3.69	-
8	1,195	50.8	24.6	-3.06	2.70
7	-	-	21.1	-2.79	2.46
6	904	36.3	18.8	-2.16	1.96
5	751	30.9	15.3	-	1.72
4	597	25.4	11.7	-1.53	1.48
3	313	10.9	9.4	-1.26	0.98
2	153	5.5	5.9	-0.63	0.74
1	0	0	0	0	0

*Production in pounds per lactation.

**Combine for enhanced longevity prediction tool.

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