

## Igenity<sup>®</sup> Enhanced

# Introducing Igenity<sup>®</sup> Enhanced<sup>®</sup> for Dairy Cattle

### What is Igenity Enhanced?

Igenity Enhanced is a digital service that evaluates the genetic potential of your herd by pairing each animal's performance data with the results received from an Igenity Select profile. This unique platform has been created by the Neogen<sup>®</sup> team of experienced geneticists to deliver a more precise assessment on key traits, allowing you to make the most educated selection and mating decisions.

### Traits Included in Igenity Enhanced

- Three production traits
- Eight longevity and health traits
- Three fertility and calving traits
- Three indexes

### Why Use Igenity Enhanced?

The modern dairy producer collects mass amounts of data. At Neogen, we recognize that there is tremendous value in that data and the best way to leverage it is with an in-herd assessment of genetic potential. Population-wide genetic evaluations are great tools for producers to understand the potential of their herds, but Igenity Enhanced allows you to gain a clearer picture of how genetics are affecting your key performance areas. The higher resolution allows you to form better strategies resulting in faster genetic gain.

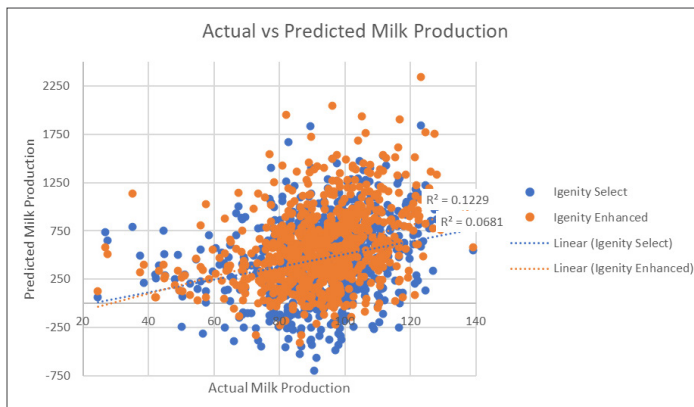


## Igenity Enhanced in Production

The ability to apply on-farm phenotype data to a standard genetic evaluation leverages the management and geography of the individual animals to ultimately drive better decision making. In this example of 774 Holstein animals, phenotype data was implemented into an on-farm data comparing CDCB data to Igenity Enhanced.

| Correlation to On-farm Phenotypes |                |                  |
|-----------------------------------|----------------|------------------|
|                                   | Igenity Select | Igenity Enhanced |
| Milk Yield                        | 26.1%          | 35.1%            |
| Fat (lbs)                         | 37.6%          | 43.9%            |
| PRO (lbs)                         | 9.2%           | 32.7%            |
| SCS                               | 17.6%          | 30.3%            |
| Prod Life                         | 3.5%           | 8.4%             |

|            | Within Herd Heritability | % Genetic Variation Captured |                  |
|------------|--------------------------|------------------------------|------------------|
|            |                          | Igenity Select               | Igenity Enhanced |
| Milk Yield | 20.5%                    | 33.2%                        | 60.1%            |
| Fat (lbs)  | 23.5%                    | 60.2%                        | 82.0%            |
| PRO (lbs)  | 53.4%                    | 1.6%                         | 20.0%            |
| SCS        | 7.3%                     | 42.4%                        | 125.8%           |
| Prod Life  | 9.6%                     | 1.3%                         | 7.4%             |



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