

DAIRY PRODUCTION AND GENETIC INFORMATION FOR COWS

County _____

Last Name _____ First Name _____

Street or Route _____ Town and State _____ Zip Code _____

Area code _____ Phone Number _____ Breed _____ Animal Birthdate: _____ / _____ / _____
Month Day Year

DHIA Herd Code: 41 _____ - _____ Herd Owner Name: _____

DHIA Computer Number: _____ Barn Name or Number: _____

Registration or Eartag Number: _____

All dairy exhibitors of cows are strongly encouraged to provide genetic and/or production information. Cows' Genetic Values for Net Merit Dollar Value (NM\$) will be used to rank cows in the Total Merit placings. The USDA publishes PTAs for NM\$ for DHIA cows with sire ID's. If a cow does not have a PTA for NM\$, to be eligible for the Total Merit class, animals must be sired by a bull with a published PTA NM\$ or by a young A.I. bull with a pedigree index. The dam must have a PTA NM\$ or the dam's sire must have a published PTA NM\$.

Where to find the genetic information:

- A. The USDA offers the most up-to-date genetic information on their Internet web site. The site can be accessed at: <http://aipl.arsusda.gov/>. This address will bring you to the USDA Animal Improvement Programs Laboratory (AIPL) home page. To find animal PTA's, click on "Genetic evaluations". Then click on "Publicly available queries".
- B. A cow PTA NM\$ may be obtained by clicking on "Get cow evaluation". Enter breed (H for Holstein) and ID number (registration number (eg. 15862265) or breed and DHIA ear tag number (eg. 41WTWR7798). Sire or dam information can be found in a similar manner.
- B. Another source of information is the DHI Milking Cow Genetic Evaluation or the Cow Page (sent to DHIA clients after each genetic evaluation). If these are not available, sire values may be found on the DHI Reproductive Report, USDA sire summary lists or from A.I. stud information.

NM\$ Genetic Value

$$\frac{\text{Cow PTA NM\$}}{\text{Cow PTA NM\$}} \times 2 = \frac{\text{Cow NM\$ Genetic Value}}{\text{Cow NM\$ Genetic Value}}$$

If the cow PTA NM\$ is unavailable the following formula is used:

$$\frac{\text{Sire PTA NM\$}}{\text{Sire PTA NM\$}} + \frac{\text{Dam PTA NM\$}}{\text{Dam PTA NM\$}} = \frac{\text{Cow NM\$ Genetic Value}}{\text{Cow NM\$ Genetic Value}}$$

If the cow PTA NM\$ and the Dam PTA NM\$ are unavailable the following formula is used:

$$\frac{\text{Sire PTA NM\$}}{\text{Sire PTA NM\$}} + \frac{1}{2} \times \frac{\text{Dam's Sire PTA NM\$}}{\text{Dam's Sire PTA NM\$}} = \frac{\text{Cow NM\$ Genetic Value}}{\text{Cow NM\$ Genetic Value}}$$

