

# A.I. Sire Summary

This report contains the latest USDA-DHIA genetic evaluation on 332 sires. These are proven sires with semen available through each of the five studs (MABC, Carnation, ABS, Midwest, Tri-State) at the time this bulletin was printed.

Sires are ranked in this bulletin by the expected differences of their future daughters and their herd-mates as expressed by the Predicted Difference value for income (PD\$\$). The PD\$\$ combines economic aspects for both milk and fat. Due to the increasing average merit and number of sires available, we culled those Holstein bulls with PD\$\$ less than \$140 and bulls of other breeds with PD\$\$ less than \$75.



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## Explanation of Headings

REGISTRATION NUMBER and CODE NAME of sire.

STUD CODE for technicians.

NO. HERDS in which records were made.

NO. DAUS. with production records.

PCT. INC. (percent 1st cull) represents the portion of a sire's daughters which were removed from the herd before completing a first lactation.

PCT. RIP. (percent records-in-progress) denotes the portion of a sire's daughter-records on in-progress lactations.

PCT. RPT. (percent repeatability) is an index value which measures the reliability of the PD considering the number of daughter records and its distribution over herds.

PREDICTED DIFFERENCE is to be used to measure the sire differences in ability to transmit production potential. Predicted Difference indicates the amount of MILK, PCT (% test), FAT, and \$\$\$ (dollar value) that future daughters of a sire are expected to differ from their herd-mates of zero PD bulls. Prices used were \$13.00 per cwt. for 3.5% milk with an 17.2 cent fat differential. The dollar value is the difference in gross value of product that should return per lactation.

## Cow Indexes are Important

The last sire summary bulletin included a table with average cow index values for herds on DH1. The average Cow Index (CI) for all milk cows in Michigan in 1981 was +445, the average CI for their dams was +214 and the average genetic index for their calves was +878, suggesting that the current cows are genetically superior to their dams and the calves will be superior to the current cows. This gives us a handle on our genetic progress.

Knowing when and how to use cow indexes is important. In short, cow index is a Predicted Difference (PD) for cows or a method of ranking cows on genetic potential just as PD is for sires. However, for cows we use their own records which are few and usually occur in one herd. Therefore, accuracy of the CI (repeatability) cannot approach that of a sire with many daughters in many herds (55% maximum repeatability vs 99% for sires).

CI's are useful in comparing cows within a herd and particularly cows in different herds. The difference between 305 day actual, 305 day mature equivalent (M.E.) and CI's is as follows:

The 305 day actual record does not include adjustment for age or season at freshening. We know that these two factors have a large impact on a lactation. If we want to accurately compare two cows using only 305 day actual records, we would compare only cows freshening at the same age and season. The 305 day

Summary of A.I. Sires Recommended to Michigan Dairymen.

| Breed       | No. Bulls | PD Milk | PD%  | PD Fat | PD\$ | % RPT |
|-------------|-----------|---------|------|--------|------|-------|
| Ayrshire    | 4         | 1054    | -.13 | 26     | 118  | 81    |
| Guernsey    | 25        | 1004    | -.11 | 37     | 133  | 67    |
| Holstein    | 244       | 1573    | -.07 | 46     | 188  | 68    |
| Jersey      | 33        | 1399    | -.22 | 48     | 181  | 68    |
| Brown Swiss | 26        | 1330    | -.06 | 46     | 173  | 68    |

M.E. includes adjustments for age and season. Therefore, we can compare cows of different ages freshening in different seasons in the same herd.

We also know that the herd in which a cow lactates has a large impact on how well she produces. The 305 day actual and M.E. records do not adjust for herd differences. Therefore, we needed a method to adjust for herd so we can rank cows between herds like we do sires. The Modified Contemporary Deviation (MCD) makes it possible to adjust a cow's production for herd by deviating her record or records from her contemporary (same age) herdmates' (freshening  $\pm$  2 months from her fresh date) records.

In the following Cow Index formula:

$$CI = 1/2 [w (\overline{MCD}) + (1-w) (Sire's PD + Dam's CI)]$$

w is a weighting factor derived from the amount of information available in the evaluation.  $\overline{MCD}$  is the average Modified Contemporary Deviation, which is a cow's average production deviated above or below production of contemporaries with adjustment made for genetic merit of the contemporaries' sires and those sires' repeatability. Dam's CI is the dam's cow index computed the same as the cow's CI.

The major uses of CI's are comparison of (1) genetic

potential of cows in different herds and (2) genetic potential of cows within a herd. The 305 day actual and M.E. records include no genetic information but the CI includes the estimate of parents genetic transmitting ability (Sire PD and Dam CI) plus the performance of the cow within the herd, i.e., her  $\overline{MCD}$ .

Bull studs have used CI's for years to select superior bull dams. Dairy men have long selected the best cows in their herd to use as bull dams if they are keeping a bull to breed their heifers (heaven forbid, but if you're going to use one it may as well be from a good cow). The CI will help you to select the best cows in your herd to embryo transfer. CI also allows you an accurate method to pick out top cows in a sale catalog because it allows you to compare cows between herds of differing production levels.

Finally, the genetic index on your calves is essentially the pedigree portion of the cow index, i.e.,  $1/2 [Sire's PD + Dam's CI]$ . The genetic indexes and the current cow indexes can be found on your DHI herd inventory report under the appropriate column titled "Index". This is useful in ranking your calves and heifers and determining if you are making genetic progress. To make progress, the genetic index should increase about 100 lbs per year. To accomplish this, you need to increase your average sire PD on milk about 100 lbs each year.

| REGISTRATION NUMBER    | NAME        | STUD CODE | NO. HERDS | NO. DAUS. | PCT CULL | PCT RIP | PCT RPT | PREDICTED MILK | DIFFERENCE PCT | FAT | \$\$\$ |
|------------------------|-------------|-----------|-----------|-----------|----------|---------|---------|----------------|----------------|-----|--------|
| AYRSHIRE               |             |           |           |           |          |         |         |                |                |     |        |
| M A B C - SELECT SIRES |             |           |           |           |          |         |         |                |                |     |        |
| 136605                 | HAGGAI      | 7A0042    | 12        | 22        | ***      | 5       | 54      | 932            | -.22           | 11  | 84     |
| TRI-STATE BREEDERS     |             |           |           |           |          |         |         |                |                |     |        |
| 134476                 | CHAD        | 14A0475   | 99        | 241       | 10       | 34      | 89      | 1189           | -.21           | 22  | 121    |
| A B S                  |             |           |           |           |          |         |         |                |                |     |        |
| 130772                 | JUMBO       | 29A7615   | 101       | 252       | 9        | 30      | 90      | 1311           | -.07           | 43  | 165    |
| 136088                 | SUPER STAR  | 29A7616   | 106       | 263       | 10       | 12      | 91      | 785            | -.03           | 28  | 103    |
| GUERNSEY               |             |           |           |           |          |         |         |                |                |     |        |
| M A B C - SELECT SIRES |             |           |           |           |          |         |         |                |                |     |        |
| 583873                 | PATRICIAN   | 7G1030    | 105       | 228       | 12       | 36      | 90      | 1266           | -.07           | 52  | 178    |
| 579953                 | B. MAVERICK | 7G1038    | 629       | 2965      | 12       | 33      | 99      | 1138           | -.04           | 50  | 165    |
| 585495                 | PREMIER     | 7G1036    | 136       | 296       | 7        | 41      | 92      | 881            | -.06           | 48  | 144    |
| 591552                 | A.F.C.      | 7G0172    | 20        | 26        | ***      | 65      | 52      | 1133           | -.18           | 35  | 139    |
| 589545                 | TOP ROE     | 7G0156    | 107       | 295       | 13       | 23      | 91      | 974            | -.06           | 40  | 137    |
| 591225                 | CHUCK       | 7G0192    | 4         | 12        | ***      | 50      | 27      | 1077           | -.14           | 36  | 137    |
| 588441                 |             | 7G0159    | 15        | 35        | 10       | 6       | 59      | 835            | -.03           | 36  | 120    |
| 503872                 | FANCY       | 7G0142    | 90        | 193       | 12       | 4       | 90      | 979            | -.19           | 27  | 115    |
| MIDWEST BREEDERS       |             |           |           |           |          |         |         |                |                |     |        |
| 591235                 | KING ARTHUR | 2160257   | 5         | 12        | ***      | 25      | 29      | 1305           | -.17           | 44  | 167    |
| 590504                 | RON         | 2160255   | 3         | 14        | ***      | 9       | 26      | 1573           | -.34           | 32  | 165    |
| 587076                 | JAMAICA     | 2160249   | 17        | 42        | 9        | 15      | 62      | 952            | -.11           | 34  | 125    |
| 589104                 | FANTASTIC   | 2160251   | 5         | 14        | ***      | 0       | 40      | 716            | -.07           | 27  | 95     |
| TRI-STATE BREEDERS     |             |           |           |           |          |         |         |                |                |     |        |
| 590101                 | JA DA       | 1460189   | 11        | 35        | 9        | 6       | 55      | 1067           | -.15           | 35  | 135    |
| 589666                 | TRANSFER    | 1460188   | 3         | 20        | ***      | 0       | 34      | 848            | -.13           | 27  | 105    |
| 591696                 | BRIGHT      | 1460182   | 11        | 16        | ***      | 31      | 37      | 889            | -.19           | 23  | 102    |
| 585033                 | WINNER      | 1460169   | 105       | 263       | 21       | 14      | 91      | 434            | -.09           | 29  | 80     |
| A B S                  |             |           |           |           |          |         |         |                |                |     |        |
| 590165                 | ADMIRAL     | 2960811   | 29        | 42        | 4        | 26      | 66      | 1738           | -.11           | 70  | 242    |
| 586731                 | TELESTAR    | 2960796   | 235       | 476       | 10       | 33      | 95      | 1527           | -.06           | 66  | 220    |
| 583550                 | FABIAN      | 2960788   | 256       | 725       | 19       | 28      | 96      | 1026           | -.02           | 51  | 159    |
| 599456                 | JUPIER      | 2960808   | 196       | 402       | 15       | 24      | 94      | 1054           | -.25           | 24  | 115    |
| 586569                 | EXTRA       | 2960798   | 61        | 113       | 9        | 16      | 85      | 675            | -.02           | 34  | 106    |
| 588800                 | FERNELL     | 2960806   | 96        | 159       | 14       | 19      | 87      | 808            | -.13           | 25  | 99     |
| 590919                 | FAYVOR      | 2960784   | 965       | 5084      | 15       | 16      | 99      | 583            | -.01           | 29  | 91     |
| 591826                 | SUPREME     | 2960812   | 16        | 16        | ***      | 88      | 38      | 743            | -.12           | 23  | 91     |
| 591944                 | LOYAL       | 2960813   | 17        | 23        | ***      | 96      | 48      | 891            | -.26           | 16  | 90     |

| REGISTRATION NUMBER    | NAME              | STUD CODE | NO. HERDS | NO. DAUS. | PCT CULL | PCT RIP | PCT RPT | PREDICTED MILK | DIFFERENCE PCT | 74 FAT | \$\$\$ |
|------------------------|-------------------|-----------|-----------|-----------|----------|---------|---------|----------------|----------------|--------|--------|
| JERSEY                 |                   |           |           |           |          |         |         |                |                |        |        |
| M A B C - SELECT SIRES |                   |           |           |           |          |         |         |                |                |        |        |
| 623158                 | SAINTE            | 7J0123    | 11        | 23        | 0        | 0       | 55      | 2249           | -.49           | 59     | 258    |
| 623330                 | MAGIC             | 7J0121    | 33        | 87        | 9        | 32      | 74      | 1856           | -.28           | 64     | 240    |
| 623660                 | POET              | 7J0127    | 15        | 84        | 8        | 15      | 68      | 1604           | -.16           | 64     | 222    |
| 627500                 | SARGENT PLUS      | 7J0108    | 101       | 176       | 11       | 29      | 88      | 1267           | -.02           | 66     | 202    |
| 617287                 | EARL              | 7J0112    | 257       | 612       | 10       | 65      | 96      | 1562           | -.37           | 41     | 180    |
| 613173                 | SAMSON            | 7J0102    | 964       | 5612      | 6        | 24      | 99      | 1360           | -.21           | 47     | 176    |
| 629962                 | TROJAN            | 7J0113    | 39        | 61        | ***      | 79      | 72      | 1161           | -.11           | 48     | 164    |
| 622333                 | SPARKLE           | 7J0140    | 8         | 53        | 8        | 26      | 51      | 1292           | -.23           | 42     | 162    |
| 629852                 | ORLANDO           | 7J0111    | 46        | 88        | 7        | 57      | 77      | 1195           | -.29           | 31     | 137    |
| MIDWEST BREEDERS       |                   |           |           |           |          |         |         |                |                |        |        |
| 626412                 | SUCCESS           | 21J0323   | 29        | 51        | 10       | 13      | 70      | 1197           | -.16           | 44     | 159    |
| TRI-STATE BREEDERS     |                   |           |           |           |          |         |         |                |                |        |        |
| 624896                 | BLACK MAGIC       | 14J0151   | 13        | 59        | 0        | 2       | 63      | 1861           | -.37           | 55     | 224    |
| 623830                 | MG                | 14J0150   | 4         | 25        | 3        | 4       | 39      | 1455           | -.13           | 60     | 205    |
| 627379                 | SANTA             | 14J0141   | 44        | 74        | 15       | 36      | 75      | 1218           | -.01           | 60     | 188    |
| 625113                 | NOBLE             | 14J0154   | 1         | 28        | ***      | 19      | 23      | 1262           | -.19           | 45     | 165    |
| GENETICS - CARNATION   |                   |           |           |           |          |         |         |                |                |        |        |
| 621875                 | MASTER C          | 11J0353   | 10        | 86        | 0        | 38      | 58      | 1624           | -.11           | 71     | 235    |
| 629803                 | EDYVEAN CELEBRITY | 11J0332   | 14        | 29        | ***      | 83      | 53      | 1714           | -.29           | 56     | 216    |
| 630451                 | MARK 2ND          | 11J0333   | 8         | 14        | ***      | 100     | 37      | 1395           | -.21           | 49     | 182    |
| 630554                 | MONARCH           | 11J0336   | 11        | 19        | ***      | 95      | 42      | 1218           | -.13           | 48     | 163    |
| 627330                 | FALLNEVA          | 11J0327   | 42        | 115       | 7        | 10      | 82      | 1026           | -.06           | 46     | 151    |
| 628341                 | SOLDIER ZEV       | 11J0364   | 11        | 45        | 6        | 23      | 56      | 1006           | -.05           | 46     | 149    |
| 618062                 | SPARKPLUG         | 24J0305   | 41        | 165       | 7        | 16      | 84      | 947            | -.23           | 25     | 109    |
| 617655                 | FAVORITE JUAN     | 24J0306   | 128       | 572       | 7        | 17      | 93      | 560            | .06            | 34     | 98     |
| A B S                  |                   |           |           |           |          |         |         |                |                |        |        |
| 630622                 | TOP BRASS         | 29J2793   | 20        | 27        | ***      | 89      | 52      | 1669           | -.16           | 68     | 233    |
| 625825                 | GREAT             | 29J2805   | 10        | 23        | 5        | 4       | 50      | 1956           | -.43           | 53     | 228    |
| 625184                 | CHOCOLATE SUNDAE  | 29J2783   | 13        | 21        | 0        | 0       | 56      | 1842           | -.40           | 50     | 215    |
| 621333                 | BRAVE SOLDIER     | 29J2791   | 72        | 181       | 3        | 53      | 86      | 1754           | -.42           | 44     | 198    |
| 620428                 | JEWELER           | 29J2785   | 416       | 1371      | 6        | 38      | 98      | 1646           | -.46           | 35     | 175    |
| 630260                 | VOLUNTEER         | 29J2792   | 20        | 28        | ***      | 96      | 52      | 1107           | -.04           | 52     | 167    |
| 617923                 | MIDNIGHT          | 29J2799   | 195       | 452       | 8        | 44      | 94      | 1348           | -.29           | 39     | 161    |
| 624576                 | STARDUST          | 29J2770   | 33        | 59        | 12       | 20      | 74      | 1094           | -.06           | 49     | 161    |
| 616022                 | BOLD TORONDO      | 29J2788   | 256       | 792       | 5        | 30      | 96      | 1539           | -.49           | 27     | 154    |
| 622801                 | EXPLORER          | 29J2797   | 10        | 22        | 5        | 0       | 51      | 886            | .02            | 47     | 143    |
| 625725                 | SILVER ZEV        | 29J2804   | 18        | 64        | 8        | 16      | 68      | 1310           | -.39           | 27     | 138    |
| BROWN SWISS            |                   |           |           |           |          |         |         |                |                |        |        |
| M A B C - SELECT SIRES |                   |           |           |           |          |         |         |                |                |        |        |
| 154912                 | EVILO             | 780625    | 206       | 371       | 10       | 14      | 94      | 2351           | -.18           | 69     | 283    |
| 171140                 | REWARD            | 790638    | 42        | 56        | 4        | 49      | 68      | 1253           | -.06           | 58     | 187    |
| 159771                 | KING              | 790629    | 259       | 733       | 7        | 48      | 96      | 1515           | -.19           | 36     | 168    |
| 164943                 | KAYLE             | 780633    | 37        | 54        | 2        | 0       | 75      | 851            | -.03           | 31     | 113    |
| MIDWEST BREEDERS       |                   |           |           |           |          |         |         |                |                |        |        |
| 171547                 | MATTHEW           | 2180420   | 51        | 87        | 10       | 57      | 76      | 2470           | .02            | 102    | 388    |
| 163153                 | IMPROVER          | 1480148   | 402       | 1314      | 9        | 33      | 98      | 1559           | -.06           | 55     | 203    |
| 171713                 | ROCKET            | 2180421   | 16        | 21        | ***      | 90      | 44      | 1550           | -.08           | 52     | 198    |
| 148487                 | EL BRITE          | 2180413   | 228       | 901       | 9        | 4       | 96      | 947            | -.07           | 47     | 147    |
| 166467                 | LONDON            | 2180423   | 4         | 34        | 3        | 3       | 36      | 1083           | -.08           | 33     | 132    |
| TRI-STATE BREEDERS     |                   |           |           |           |          |         |         |                |                |        |        |
| 170838                 | NORVIC            | 1480155   | 85        | 137       | 2        | 44      | 85      | 2018           | .00            | 82     | 282    |
| 169785                 | MASTER            | 1480154   | 124       | 273       | 7        | 38      | 91      | 1755           | -.05           | 64     | 233    |
| 172258                 | JOHNNY D          | 1480158   | 14        | 19        | ***      | 84      | 42      | 1450           | -.01           | 57     | 199    |
| 156458                 | STRETCH           | 1480143   | 485       | 1751      | 10       | 17      | 98      | 1453           | -.09           | 47     | 182    |
| 167061                 | SUNSHINE          | 1480151   | 30        | 62        | 12       | 7       | 73      | 1207           | -.05           | 42     | 156    |
| 158853                 | TOM JONES         | 1480144   | 288       | 925       | 10       | 15      | 97      | 1162           | -.03           | 43     | 155    |
| 158696                 | MAPLE             | 1480145   | 279       | 802       | 12       | 31      | 97      | 1342           | -.18           | 31     | 147    |
| 170051                 | SIGNAL            | 1480170   | 11        | 29        | 0        | 8       | 49      | 1238           | -.13           | 33     | 143    |
| GENETICS - CARNATION   |                   |           |           |           |          |         |         |                |                |        |        |
| 171191                 | MARINER           | 1180520   | 15        | 22        | ***      | 73      | 43      | 1671           | .03            | 71     | 239    |
| 169179                 | SULTAN            | 1180517   | 14        | 25        | ***      | 9       | 51      | 849            | .05            | 40     | 128    |
| 152968                 | ROCKY             | 1180519   | 30        | 66        | 8        | 2       | 74      | 825            | -.14           | 16     | 95     |
| 164757                 | LU ANSON          | 1180516   | 73        | 151       | 9        | 6       | 86      | 828            | -.14           | 16     | 85     |
| A B S                  |                   |           |           |           |          |         |         |                |                |        |        |
| 168654                 | CONTINUATION      | 2983691   | 11        | 26        | 0        | 8       | 46      | 1357           | -.03           | 59     | 196    |
| 166802                 | HECTOR            | 2983685   | 4         | 20        | ***      | 6       | 31      | 1088           | -.05           | 37     | 140    |
| 170132                 | DJ                | 2983666   | 31        | 54        | 17       | 34      | 67      | 1020           | -.08           | 31     | 125    |
| 171303                 | LEADER            | 2983671   | 7         | 12        | ***      | 83      | 32      | 931            | -.04           | 33     | 122    |
| 170693                 | BENJAMIN          | 2983663   | 12        | 15        | ***      | 67      | 35      | 815            | -.08           | 23     | 96     |

| REGISTRATION NUMBER     | NAME               | STUD CODE | NO. HERDS | NO. DAUS. | PCT CULL | PCT RIP | PCT RPT | PREDICTED MILK | DIFFERENCE PCT | FAT | 74 \$\$\$ |
|-------------------------|--------------------|-----------|-----------|-----------|----------|---------|---------|----------------|----------------|-----|-----------|
| HOLSTEIN                |                    |           |           |           |          |         |         |                |                |     |           |
| M A B C - SELECT SIPIES |                    |           |           |           |          |         |         |                |                |     |           |
| 1697572                 | ROTATE             | 7H1118    | 8         | 46        | 0        | 24      | 42      | 2362           | -.05           | 78  | 299       |
| 1697281                 | STARFIRE           | 7H1128    | 25        | 32        | 0        | 17      | 62      | 2311           | -.05           | 76  | 292       |
| 1617266                 | NUGGET             | 7H0286    | 2274      | 5506      | 11       | 56      | 99      | 1925           | -.04           | 77  | 257       |
| 1556373                 | GLENDELL           | 7H0477    | 5194      | 17598     | 7        | 14      | 99      | 2030           | -.08           | 61  | 247       |
| 1693955                 | SKY HIGH           | 7H1110    | 20        | 58        | 7        | 20      | 67      | 2224           | -.19           | 49  | 240       |
| 1747962                 | ENCHANTMENT        | 7H0877    | 9         | 14        | ***      | 100     | 36      | 2093           | -.14           | 54  | 239       |
| 1731632                 | DELL               | 7H0830    | 26        | 32        | ***      | 78      | 39      | 2108           | -.15           | 53  | 238       |
| 1665634                 | BOVA               | 7H0572    | 40        | 57        | 4        | 0       | 77      | 2071           | -.14           | 52  | 234       |
| 1583197                 | CONDUCTOR          | 7H0195    | 4855      | 15072     | 7        | 27      | 99      | 1825           | -.04           | 60  | 231       |
| 1689839                 | FAGIN              | 7H0579    | 28        | 34        | 0        | 0       | 68      | 1912           | -.08           | 57  | 231       |
| 1697719                 | BEN                | 7H0694    | 34        | 43        | 11       | 10      | 71      | 1834           | -.05           | 59  | 229       |
| 1678020                 | LANCE              | 7H0556    | 46        | 55        | 16       | 9       | 77      | 2168           | -.22           | 43  | 229       |
| 1667366                 | BELL               | 7H0543    | 42        | 57        | 11       | 2       | 77      | 1732           | -.02           | 58  | 225       |
| 1734067                 | MAJESTIC           | 7H1124    | 7         | 29        | 0        | 17      | 44      | 1766           | -.02           | 57  | 221       |
| 1689860                 | MAGNUS             | 7H0587    | 37        | 43        | 3        | 5       | 74      | 1791           | -.05           | 55  | 221       |
| 1727553                 | ASTRO MATT         | 7H1129    | 6         | 15        | ***      | 20      | 34      | 1962           | -.14           | 48  | 220       |
| 1672056                 | ELMER              | 7H1105    | 23        | 44        | 10       | 9       | 67      | 1661           | -.00           | 60  | 220       |
| 1685357                 | PERFECTOR          | 7H1109    | 10        | 25        | 12       | 0       | 51      | 1986           | -.16           | 47  | 219       |
| 1721881                 | DELEGATE           | 7H0800    | 29        | 38        | ***      | 41      | 64      | 1611           | -.02           | 61  | 217       |
| 1703462                 | HEILO              | 7H1122    | 14        | 75        | 15       | 11      | 60      | 1979           | -.17           | 45  | 216       |
| 1635843                 | PETE               | 7H0900    | 1325      | 2268      | 5        | 68      | 99      | 1790           | -.11           | 47  | 205       |
| 1711154                 | LOUIS              | 7H0751    | 34        | 41        | 10       | 23      | 67      | 1714           | -.08           | 49  | 204       |
| 1626813                 | MARS               | 7H0401    | 1232      | 2455      | 12       | 86      | 99      | 1746           | -.10           | 47  | 203       |
| 1682467                 | IVAN               | 7H0591    | 41        | 55        | 9        | 2       | 77      | 1450           | -.04           | 59  | 203       |
| 1677435                 | JOSIE              | 7H1113    | 5         | 50        | 7        | 6       | 41      | 1564           | -.02           | 53  | 200       |
| 1680125                 | GAYLORD            | 7H0595    | 33        | 39        | 7        | 3       | 70      | 1558           | -.02           | 53  | 200       |
| 1561753                 | WALKWAY            | 7H0152    | 1296      | 4284      | 8        | 25      | 99      | 1794           | -.14           | 43  | 199       |
| 1666252                 | STAR WILLIE        | 7H1111    | 14        | 25        | ***      | 5       | 57      | 1510           | -.15           | 42  | 199       |
| 1685527                 | LEE                | 7H0603    | 25        | 36        | 13       | 4       | 66      | 1635           | -.07           | 48  | 197       |
| 1608425                 | CINNAMON           | 7H0241    | 2332      | 5244      | 10       | 62      | 99      | 1683           | -.10           | 45  | 195       |
| 1675357                 | FRANK              | 7H0561    | 44        | 54        | 9        | 6       | 76      | 1313           | -.08           | 60  | 195       |
| 1709993                 | VALENTIA           | 7H0760    | 40        | 47        | 7        | 7       | 72      | 1332           | -.18           | 38  | 193       |
| 1724053                 | PATRIKA            | 7H0773    | 38        | 49        | 9        | 9       | 70      | 1634           | -.10           | 43  | 186       |
| 1731930                 | PINTO              | 7H0803    | 32        | 41        | ***      | 19      | 70      | 1341           | -.04           | 55  | 188       |
| 1491007                 | ELEVATION          | 7H0658    | 9495      | 49268     | 5        | 6       | 99      | 1440           | -.01           | 50  | 187       |
| 1646886                 | HIGH SPOT          | 7H0448    | 73        | 91        | 17       | 66      | 81      | 1727           | -.16           | 37  | 184       |
| 1715210                 | EVOLUTION          | 7H0783    | 38        | 52        | 23       | 7       | 74      | 2087           | -.33           | 22  | 184       |
| 1701643                 | MADELLO            | 7H0735    | 37        | 60        | 7        | 16      | 74      | 1103           | -.14           | 51  | 182       |
| 1701967                 | SUPER              | 7H0715    | 31        | 35        | 11       | 6       | 66      | 1487           | -.06           | 45  | 181       |
| 1690034                 | GAYIETY            | 7H0629    | 27        | 39        | 13       | 6       | 58      | 1292           | -.03           | 52  | 180       |
| 1648394                 | MONEYMAKER         | 7H0903    | 404       | 643       | 7        | 80      | 96      | 1459           | -.05           | 45  | 179       |
| 1681382                 | FERSEUS CHIEF      | 7H1126    | 17        | 65        | 7        | 5       | 65      | 1502           | -.07           | 43  | 179       |
| 1663720                 | DABST              | 7H2294    | 154       | 313       | 9        | 6       | 93      | 1744           | -.20           | 32  | 177       |
| 1693107                 | LULU               | 7H0683    | 31        | 42        | 17       | 0       | 68      | 1621           | -.14           | 37  | 177       |
| 1590112                 | UK SENSATION       | 7H0190    | 2535      | 8420      | 9        | 24      | 99      | 1437           | -.06           | 43  | 174       |
| 1728078                 | ARLINDA HARTOG     | 7H0864    | 22        | 25        | ***      | 92      | 53      | 1365           | -.02           | 46  | 174       |
| 1734198                 | PRINCEP            | 7H1500    | 10        | 16        | ***      | 50      | 39      | 1677           | -.18           | 33  | 174       |
| 1622953                 | LUCKY ROYAL        | 7H0902    | 309       | 527       | 2        | 82      | 95      | 1344           | -.02           | 46  | 173       |
| 16P1734                 | JUNIPER            | 7H1115    | 17        | 42        | 0        | 9       | 65      | 1535           | -.11           | 38  | 173       |
| 1644629                 | GLEN               | 7H0457    | 225       | 321       | 13       | 67      | 93      | 1495           | -.10           | 39  | 171       |
| 1664286                 | ASTRO CHIEF        | 7H1120    | 7         | 24        | ***      | 0       | 40      | 1204           | -.04           | 50  | 170       |
| 1697698                 | LUCKY              | 7H1121    | 6         | 34        | 0        | 22      | 39      | 1323           | -.02           | 45  | 170       |
| 1648691                 | HANNIBAL           | 7H0473    | 45        | 69        | 12       | 19      | 79      | 1404           | -.06           | 41  | 169       |
| 1699804                 | CHIEF STRIKER      | 7H0685    | 28        | 35        | 16       | 0       | 66      | 1256           | -.01           | 47  | 169       |
| 1715982                 | FINESSE            | 7H0766    | 30        | 49        | 8        | 19      | 59      | 1305           | -.02           | 45  | 168       |
| 1667692                 | MANNIX             | 7H0907    | 9         | 86        | 6        | 10      | 51      | 1409           | -.08           | 39  | 165       |
| 1729637                 | A & H WAPA         | 7H0839    | 19        | 32        | ***      | 82      | 51      | 1470           | -.11           | 36  | 165       |
| 1691991                 | BON BON            | 7H0617    | 28        | 33        | 11       | 0       | 56      | 1464           | -.13           | 33  | 159       |
| 1700985                 | APRIL              | 7H0696    | 30        | 36        | 6        | 0       | 68      | 1393           | -.09           | 36  | 159       |
| 1688842                 | FREE LANCER        | 7H0598    | 26        | 32        | 4        | 0       | 66      | 1404           | -.11           | 34  | 156       |
| 1694963                 | TOP CHIEF          | 7H1117    | 15        | 21        | ***      | 0       | 54      | 1289           | -.06           | 38  | 155       |
| 1713269                 | ROANOKE            | 7H0764    | 24        | 27        | 5        | 12      | 60      | 1263           | -.04           | 39  | 155       |
| 1729295                 | POLY CHIEF CLASSIC | 7H0835    | 29        | 39        | ***      | 87      | 63      | 1266           | -.05           | 38  | 154       |
| 1703999                 | COLOSSAL           | 7H0727    | 18        | 34        | 0        | 0       | 55      | 1674           | -.27           | 18  | 148       |
| 1721314                 | SUMMIT             | 7H0785    | 41        | 54        | 3        | 12      | 73      | 1307           | -.10           | 32  | 146       |
| 1667607                 | VEEMAN             | 7H0514    | 31        | 40        | 12       | 3       | 71      | 1243           | -.08           | 33  | 144       |
| 1716222                 | ROUND-UP           | 7H0775    | 37        | 49        | ***      | 46      | 70      | 1387           | -.15           | 27  | 143       |
| 1610590                 | LANCELOT           | 7H2111    | 674       | 1514      | 8        | 28      | 98      | 1067           | -.00           | 39  | 142       |
| 1629120                 | TREAT              | 7H0418    | 58        | 67        | 9        | 37      | 79      | 1346           | -.14           | 28  | 142       |
| 1691659                 | WARRIOR            | 7H0575    | 26        | 32        | 0        | 4       | 67      | 1307           | -.12           | 29  | 141       |
| 1717296                 | BRIGADIER          | 7H0765    | 42        | 51        | 9        | 17      | 72      | 1305           | -.12           | 29  | 141       |
| 1660406                 | CINDER             | 7H0505    | 31        | 36        | 10       | 3       | 70      | 1444           | -.13           | 23  | 140       |
| 1675762                 | BARBER             | 7H1107    | 14        | 35        | 0        | 12      | 57      | 1013           | -.02           | 40  | 140       |
| MIDWEST BREEDERS        |                    |           |           |           |          |         |         |                |                |     |           |
| 1674245                 | FORD               | 21H0280   | 54        | 66        | 7        | 13      | 80      | 2664           | -.20           | 63  | 294       |
| 1690612                 | VICTORIAN          | 21H0568   | 9         | 29        | 0        | 0       | 50      | 1916           | -.02           | 56  | 247       |
| 1732030                 | MAG                | 21H0533   | 14        | 17        | ***      | 100     | 43      | 2326           | -.28           | 38  | 228       |
| 1680681                 | CYRANO             | 21H0575   | 17        | 44        | 3        | 5       | 65      | 1297           | -.15           | 70  | 211       |
| 1707322                 | JUAN               | 21H0341   | 68        | 69        | 11       | 3       | 80      | 1583           | -.00           | 57  | 209       |
| 1738883                 | TREB               | 21H0416   | 73        | 83        | ***      | 81      | 78      | 1286           | -.09           | 61  | 195       |
| 1691711                 | CHIEFTAIN          | 21H0332   | 53        | 58        | 11       | 4       | 76      | 1609           | -.07           | 47  | 193       |
| 1740146                 | TIDY               | 21H0402   | 24        | 91        | ***      | 80      | 80      | 1339           | -.04           | 55  | 188       |
| 1727429                 | FROST              | 21H0380   | 59        | 62        | 14       | 23      | 75      | 1555           | -.07           | 45  | 186       |
| 1684830                 | RICH               | 21H0478   | 10        | 64        | 7        | 4       | 50      | 1360           | -.01           | 51  | 183       |
| 1659308                 | BART               | 21H0270   | 56        | 65        | 12       | 14      | 80      | 1011           | -.18           | 64  | 181       |

| REGISTRATION NUMBER          | NAME              | STUD CODE | NO. HEFDS | NO. DAUS. | PCT CULL | PCT RIP | PCT RPT | PREDICTED MILK | DIFFERENCE PCT | FAT | 74 \$\$\$ |
|------------------------------|-------------------|-----------|-----------|-----------|----------|---------|---------|----------------|----------------|-----|-----------|
| HOLSTEIN -CONTINUED-         |                   |           |           |           |          |         |         |                |                |     |           |
| MIDWEST BREEDERS -CONTINUED- |                   |           |           |           |          |         |         |                |                |     |           |
| 1710057                      | JOEL              | 21H0357   | 74        | 61        | 7        | 9       | 82      | 1358           | .00            | 49  | 179       |
| 1687902                      | ANDY              | 21H0410   | 64        | 87        | 12       | 40      | 81      | 1758           | -.20           | 32  | 178       |
| 1699176                      | RAMROD            | 21H0683   | 9         | 60        | 9        | 3       | 48      | 969            | .19            | 54  | 178       |
| 1689657                      | CHIEF             | 21H0301   | 99        | 116       | 12       | 1       | 88      | 1457           | -.06           | 43  | 176       |
| 1730103                      | JETSET            | 21H0676   | 14        | 15        | ***      | 36      | 43      | 1630           | -.17           | 33  | 171       |
| 1744601                      | MOONSHOT          | 21H0338   | 47        | 49        | 8        | 44      | 70      | 1451           | -.08           | 40  | 170       |
| 1623662                      | ABEL              | 21H0246   | 1865      | 4300      | 9        | 49      | 99      | 1100           | .09            | 53  | 168       |
| 1694652                      | MEDALLION         | 21H0333   | 71        | 76        | 3        | 4       | 82      | 1561           | -.15           | 31  | 162       |
| 1721140                      | CAVALIER          | 21H0581   | 15        | 21        | ***      | 57      | 45      | 1249           | -.03           | 41  | 158       |
| 1728128                      | ROMAN             | 21H0405   | 51        | 59        | ***      | 78      | 72      | 956            | -.12           | 53  | 158       |
| 1598618                      | MILKMAKER         | 21H0319   | 1210      | 2315      | 9        | 37      | 99      | 1605           | -.23           | 22  | 150       |
| 1692995                      | JESTER            | 21H0291   | 93        | 129       | 7        | 4       | 68      | 1045           | .05            | 45  | 150       |
| 1640500                      | TIHO              | 21H0436   | 123       | 182       | 8        | 74      | 87      | 1227           | -.06           | 36  | 148       |
| 1733344                      | FORESIGHT         | 21H0393   | 44        | 55        | ***      | 91      | 59      | 1418           | -.15           | 26  | 144       |
| TRI-STATE BREEDERS           |                   |           |           |           |          |         |         |                |                |     |           |
| 1733665                      | DENNIS            | 14H0665   | 23        | 52        | ***      | 63      | 64      | 1634           | -.02           | 56  | 210       |
| 1795143                      | AL                | 14H0610   | 7         | 26        | ***      | 14      | 42      | 1728           | -.12           | 44  | 196       |
| 1718523                      | BANK              | 14H0635   | 17        | 41        | 7        | 33      | 61      | 1568           | -.07           | 46  | 189       |
| 1714326                      | VIOLIN            | 14H0600   | 6         | 21        | ***      | 6       | 44      | 1699           | -.15           | 37  | 182       |
| 1689264                      | COMET             | 14H0580   | 19        | 42        | 3        | 16      | 63      | 1417           | -.02           | 48  | 181       |
| 1699054                      | MONTY             | 14H0670   | 12        | 27        | ***      | 46      | 49      | 1281           | -.04           | 53  | 191       |
| 1642796                      | GRUENDALE         | 14H0530   | 54        | 91        | 0        | 67      | 75      | 1488           | -.08           | 41  | 174       |
| 1709784                      | GOLIATH           | 14H0640   | 23        | 50        | 3        | 31      | 66      | 1600           | -.15           | 35  | 172       |
| 1734212                      | GENIUS            | 14H0467   | 12        | 18        | ***      | 89      | 43      | 1221           | .04            | 50  | 171       |
| 1757833                      | DEL               | 14H0474   | 12        | 18        | ***      | 78      | 42      | 1626           | -.18           | 30  | 165       |
| 1580020                      | COMMANDER         | 14H0277   | 3954      | 14259     | 8        | 20      | 99      | 1241           | .00            | 45  | 164       |
| 1695401                      | TEX               | 14H0645   | 8         | 22        | ***      | 15      | 39      | 1268           | -.01           | 44  | 164       |
| 1716764                      | DANNY BOY         | 14H0443   | 49        | 105       | 12       | 55      | 80      | 1379           | -.07           | 39  | 163       |
| 1663497                      | PERSUADER         | 14H0495   | 190       | 327       | 9        | 64      | 92      | 977            | -.12           | 54  | 161       |
| 1634661                      | WEN-JO            | 14H0570   | 8         | 93        | 11       | 11      | 59      | 1343           | -.07           | 38  | 159       |
| 1674582                      | R A WONDER        | 14H0550   | 23        | 51        | 8        | 17      | 67      | 1565           | -.13           | 27  | 156       |
| 1726440                      | PRAIRIE           | 14H0482   | 11        | 13        | ***      | 100     | 36      | 1265           | -.06           | 37  | 152       |
| 1685148                      | MAXMAKER          | 14H0395   | 20        | 27        | 12       | 0       | 61      | 1635           | -.04           | 44  | 148       |
| 1732992                      | ANIMATOR          | 14H0620   | 7         | 56        | 7        | 45      | 39      | 1300           | -.11           | 30  | 142       |
| GENETICS - CARNATION         |                   |           |           |           |          |         |         |                |                |     |           |
| 1731599                      | ARROW             | 11H2250   | 21        | 41        | ***      | 61      | 59      | 1939           | .00            | 70  | 255       |
| 1713779                      | HERO              | 11H0466   | 9         | 23        | ***      | 11      | 50      | 1397           | -.08           | 56  | 229       |
| 1701719                      | REBEL             | 11H2076   | 24        | 49        | 0        | 28      | 67      | 1745           | -.02           | 60  | 225       |
| 1741025                      | ENGINEER          | 11H1340   | 13        | 15        | ***      | 100     | 40      | 2020           | -.15           | 49  | 225       |
| 1754029                      | JASON             | 11H2139   | 17        | 23        | ***      | 100     | 50      | 1693           | -.01           | 60  | 221       |
| 1740529                      | JEWEL             | 11H1329   | 12        | 15        | ***      | 87      | 40      | 1664           | -.04           | 54  | 209       |
| 1726541                      | PRO               | 23H0226   | 17        | 27        | ***      | 26      | 56      | 1636           | -.03           | 54  | 207       |
| 1655983                      | MONEY BAGS        | 11H2039   | 16        | 48        | 3        | 3       | 59      | 1188           | .18            | 71  | 205       |
| 1697109                      | CLIFFORD          | 11H1261   | 20        | 30        | 3        | 6       | 62      | 1576           | -.01           | 55  | 203       |
| 1649214                      | PONCHO            | 11H2017   | 28        | 82        | 4        | 36      | 72      | 1833           | -.15           | 42  | 200       |
| 1698983                      | CRAWLER           | 11H1264   | 20        | 59        | 0        | 7       | 63      | 1852           | -.19           | 39  | 196       |
| 1712271                      | ELECTRON          | 23H0219   | 32        | 61        | 5        | 5       | 75      | 1516           | -.03           | 50  | 192       |
| 1747064                      | HARDYS STARWARS   | 11H0313   | 12        | 13        | ***      | 100     | 37      | 1662           | -.11           | 43  | 189       |
| 1733449                      | MIRACLE MAN       | 11H2120   | 13        | 22        | ***      | 95      | 47      | 1410           | .00            | 52  | 188       |
| 1695501                      | SILVER ROCKET     | 11H1242   | 16        | 28        | 4        | 4       | 59      | 1843           | -.21           | 33  | 185       |
| 1690363                      | STARS PRIDE       | 11H2059   | 33        | 64        | 14       | 0       | 73      | 1351           | .02            | 52  | 184       |
| 1726577                      | PIG ROCK          | 11H2600   | 55        | 99        | ***      | 63      | 80      | 1610           | -.11           | 41  | 183       |
| 1734202                      | DANSEUR           | 11H2215   | 9         | 43        | ***      | 40      | 49      | 1595           | -.11           | 41  | 181       |
| 1659978                      | BEACON            | 11H2025   | 8         | 12        | ***      | 0       | 43      | 1387           | -.01           | 49  | 181       |
| 1703603                      | STAR KIT          | 11H2078   | 22        | 59        | 3        | 2       | 58      | 1910           | -.27           | 26  | 178       |
| 1668920                      | SKIPPER           | 11H1162   | 18        | 57        | 0        | 12      | 64      | 1460           | -.07           | 42  | 174       |
| 1681130                      | JEREMY            | 11H1204   | 27        | 78        | 5        | 7       | 74      | 1757           | -.21           | 30  | 174       |
| 1706061                      | ASTRO BLEND       | 11H2641   | 18        | 23        | ***      | 19      | 54      | 1518           | -.10           | 39  | 173       |
| 1753897                      | BOOKIE            | 11H2105   | 9         | 10        | ***      | 90      | 32      | 1435           | -.07           | 42  | 173       |
| 1612677                      | EL CAPITAN        | 11H1057   | 29        | 50        | 2        | 5       | 71      | 1436           | -.07           | 42  | 172       |
| 1690733                      | SILVER WAVE       | 11H1233   | 21        | 33        | 0        | 4       | 65      | 1554           | -.12           | 37  | 172       |
| 1705317                      | STAR KING         | 11H2060   | 25        | 53        | 5        | 12      | 69      | 1326           | -.01           | 46  | 172       |
| 1682056                      | MILLIS-AN         | 11H1208   | 14        | 71        | 10       | 29      | 69      | 1488           | -.10           | 38  | 169       |
| 1595067                      | STAR PERFORMER    | 24H0692   | 375       | 1374      | 7        | 38      | 97      | 1687           | -.21           | 28  | 166       |
| 1712938                      | FONZIE            | 11H1291   | 25        | 56        | 6        | 32      | 69      | 1196           | -.03           | 48  | 166       |
| 1624877                      | PAYMASTER         | 11H0173   | 207       | 758       | 8        | 36      | 96      | 1402           | -.08           | 39  | 165       |
| 1600743                      | PER HILARY        | 11H1012   | 375       | 1550      | 10       | 70      | 97      | 1611           | -.18           | 30  | 164       |
| 1682949                      | APOLLO IDEAL      | 11H1215   | 20        | 28        | 5        | 5       | 62      | 1525           | -.14           | 33  | 163       |
| 1706984                      | STANDD MAGIC      | 11H1273   | 15        | 35        | 4        | 20      | 59      | 1478           | -.12           | 35  | 163       |
| 1729742                      | ANDY              | 11H1331   | 10        | 18        | ***      | 100     | 41      | 1395           | -.08           | 38  | 163       |
| 1736388                      | GLENVIEW JOE      | 11H2132   | 29        | 54        | ***      | 69      | 57      | 1332           | -.05           | 40  | 162       |
| 1712770                      | STARDOM           | 11H2103   | 28        | 53        | 2        | 14      | 72      | 1399           | -.10           | 36  | 160       |
| 1607814                      | PARAGON BOOTMAKER | 11H2612   | 573       | 1199      | 6        | 69      | 98      | 1533           | -.17           | 29  | 157       |
| 1626486                      | CHAMP             | 11H1096   | 33        | 48        | 4        | 43      | 71      | 1233           | -.03           | 40  | 155       |
| 1717127                      | JET               | 11H2106   | 13        | 30        | 5        | 19      | 56      | 1385           | -.11           | 34  | 155       |
| 1626131                      | S BONANZA         | 11H1124   | 24        | 51        | ***      | 64      | 58      | 1239           | -.04           | 39  | 154       |
| 1652210                      | TORONADO          | 11H0469   | 15        | 48        | 6        | 0       | 63      | 1379           | -.11           | 33  | 153       |
| 1661728                      | ADVENTURER        | 11H2006   | 19        | 56        | 0        | 29      | 53      | 1251           | -.05           | 38  | 153       |
| 1670356                      | REFORM            | 11H1160   | 28        | 42        | 12       | 3       | 70      | 1157           | .00            | 42  | 153       |
| 1742725                      | ARION             | 11H2118   | 14        | 41        | ***      | 56      | 51      | 1459           | -.15           | 30  | 153       |
| 1723229                      | REVELLER          | 11H1292   | 14        | 49        | ***      | 53      | 56      | 1311           | -.09           | 33  | 148       |
| 1763021                      | FESTUS            | 11H2110   | 14        | 16        | ***      | 94      | 41      | 1807           | .05            | 44  | 146       |
| 1676445                      | JURILEE           | 11H1168   | 38        | 66        | 9        | 9       | 75      | 845            | .11            | 47  | 140       |

| REGISTRATION NUMBER  | NAME        | STUD CODE | NO. HERDS | NO. DAUS. | PCT CULL | PCT RIP | PCT RPT | PREDICTED MILK | DIFFERENCE PCT | FAT | 74 \$\$\$ |
|----------------------|-------------|-----------|-----------|-----------|----------|---------|---------|----------------|----------------|-----|-----------|
| HOLSTEIN -CONTINUED- |             |           |           |           |          |         |         |                |                |     |           |
| A B S                |             |           |           |           |          |         |         |                |                |     |           |
| 1724657              | COLUMBUS    | 29H4000   | 11        | 29        | ***      | 10      | 48      | 2717           | -.16           | 71  | 312       |
| 1712352              | MARC        | 29H4215   | 9         | 19        | ***      | 63      | 41      | 2195           | -.04           | 73  | 279       |
| 1736222              | TOBY        | 29H3364   | 27        | 31        | ***      | 100     | 59      | 2425           | -.19           | 57  | 267       |
| 1698738              | PRINT       | 29H3161   | 43        | 52        | 0        | 2       | 76      | 2018           | -.01           | 71  | 263       |
| 1684205              | JASON       | 29H3064   | 34        | 45        | 3        | 2       | 74      | 2136           | -.08           | 65  | 261       |
| 1684385              | ELMER       | 29H3085   | 27        | 56        | 2        | 4       | 72      | 1876           | .02            | 72  | 255       |
| 1726591              | HAKIM       | 29H3360   | 28        | 53        | ***      | 88      | 59      | 1825           | .01            | 68  | 244       |
| 1685359              | DYNAMO      | 29H3098   | 35        | 42        | 5        | 0       | 73      | 1985           | -.08           | 60  | 242       |
| 1743178              | GERANJD     | 29H4230   | 9         | 21        | ***      | 100     | 43      | 2315           | -.23           | 46  | 241       |
| 1704268              | RADAR       | 29H3845   | 18        | 25        | 0        | 0       | 61      | 2042           | -.11           | 56  | 239       |
| 1694023              | SPARTAN     | 29H4138   | 37        | 54        | 5        | 18      | 74      | 2093           | -.15           | 51  | 234       |
| 1733643              | GALAXY      | 29H3359   | 24        | 28        | ***      | 96      | 56      | 1649           | .04            | 66  | 229       |
| 1722425              | MILKMASTER  | 29H3815   | 18        | 50        | 3        | 7       | 56      | 1780           | -.03           | 60  | 227       |
| 1721497              | ERIC        | 29H3303   | 44        | 52        | 16       | 29      | 72      | 2029           | -.16           | 48  | 224       |
| 1650414              | VALIANT     | 29H2851   | 219       | 288       | 8        | 81      | 93      | 1801           | -.06           | 56  | 222       |
| 1680121              | MILWAY      | 29H3105   | 25        | 46        | 12       | 3       | 69      | 1679           | .00            | 61  | 222       |
| 1695218              | TEMPEST     | 29H3130   | 51        | 43        | 6        | 7       | 71      | 1805           | -.07           | 55  | 221       |
| 1705804              | DYNASTY     | 29H3246   | 19        | 37        | 7        | 24      | 63      | 1610           | .03            | 63  | 221       |
| 1715880              | LUCK E      | 29H3287   | 49        | 66        | 10       | 23      | 76      | 1878           | -.11           | 51  | 219       |
| 1738081              | MAGNEETO    | 29H3593   | 12        | 19        | ***      | 89      | 45      | 1859           | -.10           | 52  | 219       |
| 1647459              | CHRIS       | 29H2811   | 766       | 1303      | 9        | 81      | 98      | 2454           | -.38           | 27  | 218       |
| 1699493              | VIC         | 29H3195   | 43        | 59        | 13       | 2       | 77      | 1644           | .03            | 59  | 216       |
| 1714278              | LOGIC       | 29H3268   | 43        | 59        | 6        | 29      | 74      | 1684           | -.03           | 56  | 214       |
| 1727635              | MAIZ        | 29H4195   | 9         | 20        | ***      | 85      | 36      | 2061           | -.21           | 41  | 214       |
| 1700428              |             | 29H3204   | 15        | 27        | 8        | 0       | 59      | 1717           | -.05           | 54  | 213       |
| 1670778              | TANNSEN     | 29H3635   | 9         | 53        | 2        | 4       | 48      | 1673           | -.04           | 55  | 211       |
| 1631223              | MARS        | 29H2786   | 1010      | 1844      | 9        | 72      | 99      | 1315           | -.17           | 42  | 206       |
| 1672325              | DAIRYMAN    | 29H3820   | 12        | 40        | 4        | 30      | 56      | 1546           | .01            | 57  | 205       |
| 1698925              | VENTURA     | 29H4152   | 17        | 42        | 0        | 26      | 62      | 1689           | -.07           | 50  | 204       |
| 1713821              | SINNISSIPPI | 29H3261   | 39        | 48        | 6        | 11      | 72      | 1990           | -.21           | 38  | 204       |
| 1693549              | MINUTEMAN   | 29H4151   | 15        | 82        | 2        | 23      | 64      | 1747           | -.10           | 47  | 203       |
| 1694079              | PLATEAU     | 29H3135   | 42        | 48        | 6        | 0       | 74      | 1847           | -.15           | 43  | 203       |
| 1708145              | ALLEN       | 29H3206   | 30        | 35        | 15       | 18      | 66      | 1479           | .03            | 58  | 203       |
| 1564328              | DEMAND      | 29H2510   | 2260      | 6372      | 6        | 17      | 99      | 2177           | -.51           | 29  | 202       |
| 1707240              | HARTLEY     | 29H4147   | 35        | 46        | 3        | 27      | 69      | 1656           | -.07           | 49  | 200       |
| 1738730              | KISHCO      | 29H3399   | 21        | 27        | ***      | 93      | 53      | 1517           | .00            | 55  | 200       |
| 1701583              | DOLAN       | 29H4070   | 15        | 37        | 0        | 16      | 58      | 1610           | -.07           | 48  | 195       |
| 1672151              | SEXATION    | 29H2960   | 31        | 44        | 4        | 7       | 73      | 1328           | -.07           | 59  | 194       |
| 1739490              | ROCKETIER   | 29H3415   | 27        | 38        | ***      | 92      | 61      | 1902           | -.21           | 35  | 193       |
| 1717713              | BRITE       | 29H3295   | 44        | 59        | 0        | 40      | 74      | 1617           | -.08           | 46  | 192       |
| 1692359              | WEST        | 29H3131   | 40        | 56        | 10       | 2       | 77      | 1631           | -.09           | 45  | 191       |
| 1750529              | NASTASE     | 29H3376   | 35        | 41        | ***      | 75      | 65      | 1750           | -.15           | 40  | 191       |
| 1663473              | DIPLOMAT    | 29H2915   | 46        | 74        | 0        | 31      | 80      | 1577           | -.07           | 46  | 189       |
| 1739643              | MAPLE       | 29H3421   | 14        | 16        | ***      | 100     | 43      | 1626           | -.10           | 44  | 189       |
| 1697162              | KEN ROYAL   | 29H3183   | 37        | 48        | 8        | 5       | 73      | 1217           | .10            | 60  | 188       |
| 1679918              | DAVID       | 29H3088   | 41        | 60        | 10       | 0       | 78      | 1464           | -.03           | 48  | 185       |
| 1698712              | JEWELMAKER  | 29H3176   | 26        | 38        | 7        | 6       | 68      | 1542           | -.07           | 45  | 185       |
| 1714309              | ROSSITER    | 29H3258   | 49        | 59        | 5        | 12      | 76      | 1983           | -.28           | 27  | 185       |
| 1671336              | CHECKMATE   | 29H3086   | 56        | 82        | 8        | 3       | 83      | 1767           | -.19           | 35  | 184       |
| 1704526              | GRCHARD     | 29H3272   | 20        | 32        | 10       | 13      | 61      | 1545           | -.08           | 44  | 184       |
| 1642993              | MONEY-MAKER | 29H2847   | 90        | 122       | 14       | 68      | 85      | 1909           | -.25           | 29  | 183       |
| 1692173              | HARVUE      | 29H3124   | 34        | 43        | 5        | 0       | 72      | 1639           | -.12           | 40  | 183       |
| 1708937              | JAX         | 29H3313   | 20        | 89        | 4        | 25      | 67      | 1732           | -.17           | 36  | 183       |
| 1605637              | BICKEN      | 29H4137   | 697       | 1837      | 6        | 60      | 98      | 1498           | -.05           | 45  | 182       |
| 1679466              | LYLE        | 29H4142   | 22        | 28        | 4        | 4       | 60      | 1776           | -.19           | 34  | 182       |
| 1692253              | CREST       | 29H4139   | 25        | 34        | 0        | 10      | 64      | 1792           | -.20           | 33  | 182       |
| 1723830              | TRIUNE      | 29H4130   | 8         | 17        | ***      | 35      | 37      | 1293           | -.04           | 53  | 181       |
| 1710482              | STARFLEET   | 29H3286   | 15        | 50        | 3        | 21      | 62      | 1420           | -.03           | 47  | 180       |
| 1714827              | TILLER      | 29H3283   | 41        | 54        | 3        | 16      | 74      | 1425           | -.03           | 47  | 180       |
| 1669592              | MARVIN      | 29H2969   | 35        | 41        | 0        | 22      | 72      | 1571           | -.12           | 39  | 177       |
| 1687535              | DOMINANT    | 29H4141   | 18        | 23        | 5        | 5       | 58      | 1515           | -.10           | 40  | 175       |
| 1692150              | GRAND SLAM  | 29H3093   | 49        | 65        | 16       | 2       | 79      | 1009           | -.16           | 61  | 175       |
| 1673127              | LUMINOUS    | 29H3329   | 37        | 54        | 2        | 2       | 77      | 1521           | -.10           | 39  | 173       |
| 1693030              | LUKE        | 29H3145   | 15        | 35        | 14       | 6       | 59      | 1425           | -.12           | 43  | 173       |
| 1725496              | POLITICIAN  | 29H4175   | 36        | 43        | 15       | 29      | 67      | 1866           | .12            | 57  | 172       |
| 1678710              | BLEND       | 29H3070   | 33        | 101       | 4        | 9       | 75      | 1414           | -.06           | 42  | 171       |
| 1672322              | JORDAN      | 29H3050   | 123       | 218       | 11       | 14      | 91      | 1694           | -.20           | 30  | 170       |
| 1685540              | DIXIE       | 29H3760   | 7         | 38        | 6        | 3       | 47      | 1235           | .01            | 47  | 167       |
| 1690469              | HENRY       | 29H3081   | 25        | 34        | 7        | 0       | 67      | 1221           | -.02           | 47  | 166       |
| 1645942              | BUFF        | 29H4150   | 53        | 106       | 4        | 71      | 77      | 1459           | -.10           | 37  | 164       |
| 1693040              | STONEY      | 29H3151   | 29        | 44        | 3        | 3       | 71      | 1293           | -.04           | 41  | 161       |
| 1633380              | FROSTY      | 29H2779   | 146       | 237       | 12       | 80      | 91      | 1269           | -.04           | 40  | 157       |
| 1698918              | EAGLE       | 29H3181   | 60        | 70        | 4        | 0       | 81      | 1184           | -.01           | 41  | 153       |
| 1730049              | IVANED      | 29H3337   | 37        | 46        | ***      | 76      | 67      | 655            | -.15           | 54  | 153       |
| 1629385              | MILESTONE   | 29H2785   | 2403      | 4748      | 8        | 74      | 99      | 1407           | -.13           | 31  | 152       |
| 1673806              | BELLE       | 29H3017   | 27        | 101       | 6        | 2       | 76      | 1120           | .00            | 41  | 149       |
| 1450228              | BOOTMAKER   | 29H1881   | 8027      | 28753     | 6        | 2       | 99      | 1249           | -.07           | 35  | 147       |
| 1724058              | HARMONY     | 29H4180   | 7         | 18        | ***      | 61      | 42      | 1208           | -.05           | 35  | 145       |
| 1668484              | SOONER      | 29H3645   | 18        | 31        | ***      | 25      | 56      | 1007           | .03            | 41  | 141       |

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