# OVERSEEDING FAIRWAY TRIALS

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### Abstract

Fifty-one overseed entries were evaluated in 1997-1998 for turfgrass performance. New experimental accessions of perennial ryegrass were darker in color than most of the commercially available germplasm included in this test. Ryegrass germplasm had better turfgrass quality after April, than did mixtures of perennial ryegrass with Poa trivialis, which performed well in December, January and March. General appearance for total plot leaf texture was best generally among the Poa trivialis containing mixtures. Hybrid (or intermediate) ryegrasses (L. which are crosses between perennial X annual ryegrass, are generally closer to annual ryegrass in performance. There was a vast improvement in L. hybridum (Pick YNC) when compared to annual ryegrass alone for turf performance. Intermediate and annual ryegrasses did show signs of decline in June (more so than ryegrass or Poa trivialis blends), which was desirable from a transition standpoint.

#### Introduction

Each year, thousands of golf courses, park, sports fields and commercial facilities overseed bermudagrass turf in the early fall with a cool season grass. This is necessary to provide a year-round green surface to maintain utility and function. Turfgrasses used include annual ryegrass (low maintenance areas) turf-type perennial ryegrass, <a href="Poa trivialis">Poa trivialis</a> (usually in blends with other grass species) and hybrid ryegrasses (Lolium hybridum). Hybrid ryegrass is a cross between annual X perennial ryegrass.

A cool season germplasm test was established at the University of Arizona Karsten Turfgrass Facility in Tucson, Arizona, to asses turfgrass performance in a desert setting.

Plots were seeded on October 24, 1997, and were topdressed with 1/8 inch of a sand/manure mix. The test was irrigated for establishment until mowing commenced on November 15. The mowing height was 3/4". Plots were mowed 3x weekly. The test was fertilized with 3.4 lb. -N-/M in December, 1.0 lb. -N-/M in January, and 0.5 lb. -N-/M each month from February to June. Plot size was 4' x 6', with entries repeated three times in a RCB design. Plots were irrigated with 80% Ref Eto to avoid stress. The test was evaluated for establishment, turfgrass color, quality, texture, density and uniformity on six occasions from December 1997 to June 1998. The percent plot straw (dead cool season turf) was assigned to plots as a measure of transition (cool season grass decline). Fifty-one entries were included in the test, which included perennial ryegrass, annual ryegrass, hybrid ryegrass and Poa trivialis germplasm. Entries were comprised of commercial cultivars, blends, species mixtures, or experimental accessions (Appendix Table A). All data were analyzed using the analysis of variance technique. Least significant difference values (LSD) were calculated as the mean separation statistic.

# **Results and Discussion**

Plots were scored for visual percent plot cover on December 17, 1997 (0-100%) scale. Plot means ranged from 98% to

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53% for plot coverage (Table 1). Twenty-four entries had mean plot cover values of 90%, or greater. Several experimental accessions had mean values of 78% or less (Table 1). By January all plots had essentially 100% cover (data not shown).

## **Turfgrass Color**

Color scores were assigned to plots using the National Turfgrass Evaluation Program (NTEP) visual scale of 1-9. Values were assigned on December 12, January 17, March 18, April 21, May 29 and June 18. "Winter averages" were calculated from the January, February and March ratings while "spring averages" were derived from the April, May and June scores. On all evaluation dates the overall entry effect was highly significant at P=0.001.

In early December, mean color scores ranged from 3.7 to 8.5 (Table 2). The entries "TPD", "Gulf Annual", Barverdi Annual" and "Interim" intermediate ryegrass had mean color scores of 4.3 or less. The hybrid ryegrass YNC had a mean color score of 5.7, being darker than most other annual or hybrid entries. The entry "97-1143" ranked first for dark color, with a mean value of 8.5. Three other entries had mean color scores of 7.5-7.7 ("97-3806", "97-1159", "M59-6-663" and "97-1111"). Several other entries had higher mean rank scores than some of the commercial germplasm (Table 2).

For January, mean turfgrass color scores ranged from 4.0 ("Barverdi", "Interim" and "Gulf") to 8.0 ("97-1143"). Three other experimental had mean color scores of 7.7, including "97-1109", "97-111" and "97-1159. Pick YNC hybrid ryegrass ranked highest numerically for color, against other hybrids or annual ryegrasses (Table 2).

In March, mean color scores ranged from 3.3 ("Barverdi" and "Gulf") to 8.0 ("97-1143", "97-1142", "97-1150" and "M59-6-663"). Warmer temperatures now increased mean overall color scores and excellent growing conditions prevailed. Thirteen additional entries had mean color scores of 7.3 to 7.7. All of these were experimental selections (Table 2).

For the "winter average", mean color scores ranged from 3.8 to 7.9 (Table 2). The entries "97-1143", "97-1159" and "97-1111" had mean winter color scores of 7.4, 7.6 and 7.9, respectively. Among the ryegrass/Poa trivialis mixtures, "Catalina/Winterplay", "Turfstar Plus" and "First-Cut" had winter color averages of 5.9, 5.4 and 5.1, respectively (Table 2).

In April, warmer daytime temperatures, along with cool night time temperatures allowed for excellent turfgrass color and appearance. Color scores ranged from 2.0 ("Gulf Annual") to 8.0 ("97-1109", "97-1142" and "97-1197"). Premier II ranked first among commercially available germplasm at 6.7. "Turfstar Plus" was very light in color (mean = 3.7). The "Catalina" blend had the darkest color among the PT containing mixtures (5.3) (Table 3).

Overall color scores declined slightly in May, with the return of high daytime temperatures and high solar radiation (Table 3). Mean color scores ranged from 3.0 to 7.7. The entries "Gulf-annual", "Interim" and "Barverdi-annual" had mean color scores of 3.7 or less. Again,"97-1143", "97-1142" and "97-1197" ranked numerically high for the darkest visual color (means = 7.7). "Majesty" and "Citation II" had mean color scores of 6.3. There were eight entries which had mean color scores in May of 4.7 or less.

The last evaluations for color were made on June 18, 1998. Mean color scores ranged from 1.7 to 7.3 (Table 3). "Gulfannual" was almost dead with a low mean color score of 1.7. "Vision Quest", "Barverdi" and "Interim" had mean color scores of 3.3 or less for June. The three experimental entries "97-1150", "97-3809" and "95-1" showed excellent color under conditions of high daytime temperatures along with cool night temperatures.

#### **Spring Color Averages**

Spring color averages are listed in Table 3 and represent the monthly average of April, May and June 1998 color scores. The entries that had the better "spring" color scores were not necessarily those which had the better "winter" color scores. The entry "97-1197" ranked numerically first for average spring color (7.6) and ranked ninth for "winter color" (average 7.1). These values are both acceptable. The entry "97-1159" ranked ninth in rank for "warm season" color average (mean = 6.7), while it ranked second numerically for "average winter" color (mean = 7.6). The entry "97-1143" ranked third for

"spring color average" (mean = 7.2) and ranked first for "average winter color" (mean = 8.0) (Tables 2, 3).

There was very little interaction for turfgrass color performance among the lower 25% of the entries.

For the yearly test average, "97-1143" ranked numerically highest (mean = 7.6), followed closely by "97-1197" and "97-1142" (means = 7.3). The highest ranking commercial cultivar was "Majesty" (mean = 6.3). Among the PT containing blends, "Catalina", "Turfstar Plus" and "First cut" had mean yearly color average values of 5.7, 5.0 and 4.8, respectively. "Pick YNC", "Barverdi", "Interim", and "Gulf annual" finished with overall seasonal mean color scores of 4.7, 3.5, 3.2 and 3.0, respectively (Table 10).

# **Turfgrass Quality**

Turfgrass quality scores were assigned on six evaluation dates from December 1997 to June 1998. Quality estimates were assigned using the NTEP rating scale of 1-9. Values are an integration of uniformity of appearance, density, leaf texture and homogeneity of color. On all dates the entry effect was highly significant at the P=0.001 level.

In December 1997 turfgrass quality scores ranged from 3.3 ("Gulf annual") to 7.7 (WX5-195-HF) perennial ryegrass (Table 4). "M59-6-663" and "Catalina" ranked next with a mean quality score of 7.3. Seven other entries had mean quality scores of 7.0. These included "LP-9", "Leaderboard", "Turfstar Plus", "97-1159", Pro-Select", "First cut", and "97-111". Pick NYC hybrid ryegrass had a mean quality score of 5.7. "Interim" and "Gulf annual" had mean quality scores of 3.7 and 3.3, respectively (Table 4).

January 1998 quality scores ranged from 4.0 to 7.7. The mixture "Catalina/Winterplay" had a mean quality score of 7.7, followed closely by M59-6-663" and the "First cut" mixture, both with mean scores of 7.3. Seven other entries had mean quality scores of 7.0 which included "Leaderboard", Premier II", "MP 5", "97-1111", Turfstar Plus", "97-1159" and "Imagine/Lynx/Pegasus" (Table 4). There were ten entries which had mean quality scores of 5.3 or less. "Gulf annual" had the lowest ranking score (mean = 4.0). Pick YNC had a mean quality score of 6.3 (Table 4)...

March quality scores ranged from 3.0 to 6.7. The entries "Imagine/Lynx/Pegasus" and "Sonoran" ranked first numerically with mean quality scores of 6.7 (Table 4). "Catalina" and "Catalina/Winterplay" had mean quality scores of 6.3. Other entries including "First cut", "97-1107", "Majesty" and "LP 9" all had mean overall quality scores of 6.0. There were fourteen entries which had mean quality scores of 4.7 or less which included three entries with mean performance quality scores of 3.3 or less (Table 4).

For "winter average" quality mean scores, the range was from 3.4 to 6.8. Entries "TPD", "Interim", and "Gulf" had very low quality scores. The entries "M59-6-663", "Catalina", "Catalina", "First cut" and "Imagine/Lynx/Pegasus" all had "winter average" quality mean scores of 6.8. There were twenty-two entries which finished within the range of 5.9 to 5.0 for "winter average" turfgrass quality (Table 4).

Quality scores ranged from 2.0 to 5.7 in April, probably due to a deficit in overall fertility. Six entries had mean April quality scores of 5.7. These included "97-3808", "LP 9", "Premier II", "97-1107", "Sonoran", "97-1197" and "97-3809". Among the PT containing mixtures, "First cut", "Turfstar Plus" and "Catalina/Winterplay" had similar mean performance quality scores within the 4.3 to 4.7 range (Table 5).

For the May evaluation overall quality scores improved ranging from 3.0 to 7.0. The entry "Turfstar Plus" had the highest numerical mean rank score of 7.0 followed closely by "Citation II" and "Sonoran" (both with mean May quality scores of 6.7). There were twelve additional entries which had mean quality scores of 6.3. Another nineteen entries which had mean quality scores of 6.0 for May. "Pick YNC" had a mean quality score of 5.0, while "Barverdi annual" and "Gulf annual" ryegrasses had mean quality scores of 4.0 and 3.0, respectively (Table 5).

Turfgrass quality scores ranged from 2.0 ("Gulf annual) to 6.3 "Paragon" and "97-1111" in June. There were fourteen entries which had mean June quality scores of 6.0. "Turfstar Plus" was the only PT containing mixture to have a mean score of 6.0 at this time. "Pick YNC" and "Gulf annual" had mean June quality scores of 4.0 and 2.0, respectively (Table 5).

For "average spring" turf quality (mean of April, May and June) quality scores ranged from 2.3 to 6.0. "Interim" and "Gulf annual" had mean spring quality average score of 2.4 and 2.3, respectively. The entry "97-1197" ranked numerically first for spring quality (mean = 6.0) followed closely by seven other entries, all with mean spring quality values of 5.9 (Table 5). These included the entries of "97-1111", "Imagine/Lynx/Pegasus", "97-1107", "97-3808", "Sonoran", "Premier II" and "97-3809". Among the PT containing mixtures "Turfstar Plus", "First cut" and "Catalina/Winterplay" had mean spring quality scores of 5.8, 5.3 and 5.2, respectively. "Pick YNC" hybrid ryegrass produced a "spring" mean quality score of 4.1. "Gulf annual" finished with a mean score of 2.3 (Table 5).

"Winter" and "spring" quality scores showed some interaction between entries. For example, the entry "M59-6-63" ranked numerically highest (with four other entries) for winter quality with a mean score of 6.8, but decreased to a mean "spring" quality average of 5.4. The same was essentially true for the entries "First cut" and "Catalina/Winterplay" (Tables 4.5).

The entry "97-1197" ranked in the middle of all entries for "winter" quality mean score of 5.6, while in the spring the mean quality score for "97-1197" was 6.0 (Tables 4, 5).

Those that had both high quality score rankings for both "spring" and "winter" periods included "Imagine/Lynx/Pegasus", "Sonoran", and "97-1111". There were twelve entries that finished with overall quality means within the range of 6.0 to 6.3. Eight entries finished with overall quality scores of 4.9 or less. "Gulf annual" had an overall quality average of 2.9. "Pick YNC" hybrid had a overall quality average of 4.8 (Table 10).

#### **Turfgrass Texture**

Turfgrass texture scores were assigned on six dates from December 1997 to June 1998 using the NTEP evaluation scale of 1-9. Texture values represent relative leaf width among plants within a plot. The entry effect was significant on all evaluation dates at P=0.001.

For December 1997 mean texture scores ranged from 3.0 to 7.7. "Gulf annual" had the coarsest leaves (lowest visual scores) and "Sonoran" ranked numerically first (mean = 7.7), followed closely by "95 1" and First cut". Both of these entries had mean December texture scores of 7.3 (Table 6). Eleven other entries had mean texture scores of 7.0. Entries with mean scores of 5.0 or less would be noticeable to the lay person as "wider than the other grasses." "Pick YNC" had the highest numerical rank for leaf texture among the hybrid or annual ryegrass (mean = 5.3) (Table 6).

January mean turfgrass texture scores ranged from 4.0 to 8.0. The PT containing entries "First cut" and "Catalina/Winterplay" had mean texture scores of 8.0, exhibiting very fine turf texture. These were followed closely by the entries "Catalina", "Leaderboard", "LP 9" and "Turfstar Plus", all which had mean values of 7.7 (Table 6). Fourteen entries had mean texture values of 5.7 or less with four having values of 4.6 or lower.

For March, entries ranked similar to that of January. The entries in the test ranged from 3.3 ("Gulf annual) to 7.7 ("Catalina/Winterplay") (Table 6). "Winter averages" for texture ranged from 3.4 ("Gulf annual") to 7.4 for both the mixtures "first cut" and "Catalina/Winterplay." Pick YNC had a "winter" texture average of 5.1 while "Barverdi annual" had a mean score of 4.4 (Table 6).

April mean texture scores ranged from 3.0 to 7.3 (Table 7). "Catalina/Winterplay", "First cut" and "Turfstar Plus" (all mixtures containing PT) ranked in the top numerically for fine leaf texture. The ryegrasses "Charger", "LP 9", "Vivid/Cathedral/Select 1", "Sonoran" and "MP 5" all had mean texture scores of 7.0 exhibiting fine turf. The "Gulf annual" was by far the coarsest grass (Table 7).

May leaf texture mean scores ranged from 3.0 to 8.3. Texture scores for entries were very similar to those previously observed in April. At the close of the test in June leaf texture expression was at a maximum, as entry means ranged from 2.0 to 8.7. The PT mixtures of "Catalina/Winterplay" ranked numerically highest with a mean score of 8.7, followed closely by the ryegrass LA20-6-PRMC and the PT mixture "First cut." Both of these had mean June texture entries of 7.5. Thirteen other entries had mean June texture scores in the range of 7.0 to 7.3. "Pick YNC" hybrid had a mean score of 5.0, "Barverdi annual" 3.7 and "Gulf annual" finished with a mean of 2.0 (Table 7).

Mean texture ratings were generally consistent among entries over the course of the test and "winter" and "spring" averages were very similar to the final "seasonal" averages. Basically for overall texture, the PT containing mixtures ("Catalina/Winterplay", "First cut" and "Turfstar Plus") had the finer looking textures. The perennial ryegrass "Leaderboard", "Catalina", "lp 9" and "Sonoran" were also quite fine in texture (Tables 6, 7).

#### **Turfgrass Density**

Turfgrass density scores using the NTEP scale of 1-9 were assigned to plots during the months of January, May and June. On all dates the entry effect was significant at P=0.001.

In January turfgrass density scores ranged from 4.3 ("TPD") to 8.0 ("Catalina/Winterplay"). "Pick YNC" hybrid ryegrass (6.3) was much denser than "Gulf annual" (4.7), "Interim" intermediate ryegrass (4.3). The experimental perennial ryegrass accession "M59-6-663" was also very dense in appearance (mean = 7.7), closely followed by the cultivars "Laredo" and "Charger II" (means = 7.3) (Table 8).

May mean entry scores for density ranged from 2.3 to 7.7. The PT containing mixtures "First cut" and "Catalina/Winterplay" had the greatest numerical means of 7.7 followed closely by "Leaderboard" perennial ryegrass blend and the "Turf Star" plus PT mixture. Six entries in the test had mean texture values of 7.0 or greater, while ten entries had mean texture values of 5.0 or less. "Pick YNC" hybrid had a mean texture score of 5.0, while Gulf had a mean texture score of 2.3 for May (Table 8).

In June mean entry density scores ranged from 2.0 to 7.7. "Catalina/Winterplay" and "Premier II" ryegrass had mean density scores of 7.7 and 7.0, respectively. "Gulf annual" had a mean density score of 2.0. The performance of entries for visual density was fairly consistent for entries from winter to spring. The entry "M59-6-663" was very dense in the winter (mean = 7.7) which decreased slightly in the spring (mean = 6.3) to yield a seasonal average of 7.0 (Tables 7,8 and ,10).

For the entire year average, "Catalina/Winterplay" the perennial ryegrasses "M59-6-663" and "Leaderboard" had overall season mean density values of 7.0 or greater. "Pick YNC" hybrid had a mean density value of 5.5 compared to "Gulf annual" which scored a seasonal average of 3.4 (Table 10).

### **Turfgrass Uniformity**

Turfgrass uniformity is a visual estimate of how homogeneous a plot appears in terms of overall general appearance, color and texture. A turf can be light green in color with wide leaf blades and not acceptionally dense. If it is uniform in its appearance it still receives an appropriately high uniformity score. Uniformity values were assigned to plots during the months of March, April, May and June using the NTEP 1-9 progressive scale. On all evaluation dates, the overseed "entry effect" was significant at the P=0.001 value.

March uniformity mean scores among entries ranged from 3.3 to 7.0 (Table 9). The entries "TPD", "Gulf annual" and "Interim" had mean uniformity values of 3.7 or less. The PT containing mixture of "Catalina/Winterplay" had the largest numerical mean score of 7.0. Five other entries had identical mean value scores of 6.3. These included "Paragon", "Majesty", "Leaderboard", "Imagine/Lynx/Pegasus" and "Catalina." There were thirty entries which had mean uniformity scores of 5.3 or less. Of these, twelve had mean March uniformity scores of 4.7 or less (Table 9).

As daytime temperatures increased, perennial ryegrass germplasm appeared more uniform than the PT containing mixtures, although there was a noticeable decline in uniformity in April. The entries "97-3807", "97-3809" and "97-1164" had mean uniformity values of 6.0 at this time (Table 9). The PT containing mixtures of "First cut", "Turfstar Plus" and "Catalina/Winterplay" had uniformity values of 5.3, 4.7 and 4.3, respectively. This illustrates the onset of the difference of appearance within a perennial ryegrass/Poa trivialis mixture in the spring (turf is unstressed). "Pick YNC" hybrid had a mean April uniformity score of 4.3, while "Gulf annual" had a mean value of 2.7 (Table 9).

In June (close of the test), mean entry scores for uniformity ranged from 2.0 to 6.0. "Paragon", "97-1149", "97-1197" and "Catalina/Winterplay" had mean uniformity values of 6.0. Twenty entries had mean uniformity scores of 4.7 or less. Six of these scored mean uniformity values of 3.7 or less (Table 9). The "spring" uniformity values (averages of April, May and June) ranged from 2.2 to 5.9. "Gulf annual" and "Interim" hybrid ryegrass had average spring uniformity scores of 2.2 and 2.4, respectively. The entries "97-3809", "97-3807", "97-1142" and "Premier II" were among the most uniform appearing plots throughout the spring, although the ratings were not acceptionally high (Table 9).

The percent plot which exhibited necrotic brown tissue in June was used as a measure of transition (decline of the cool season overseed grass). Entry means ranged from 10% necrosis to 85% necrosis (data not shown). The following overseed entries had the following percent plot necrosis. "Gulf annual" (85%), "Interim" intermediate ryegrass (85%), "Vision Quest" (38%), "Barverdi annual" (38%), "TPD" (28%), "Pick YNC hybrid" (27%), "EP37" (10%), "EPH" (10%).

All other entries had no necrosis at the close of the test. The LSD value for the percent plot necrosis in June 1998 was (8%).

# **CONCLUSIONS**

- 1. New experimental accessions of perennial ryegrass were darker in color than most of the commercially available germplasm included in this test.
- 2. Ryegrass germplasm had better turfgrass quality after April, than did mixtures of perennial ryegrass with Poa trivialis.
- 3. <u>Poa trivialis</u> performed well in December, January and March. General appearance for total plot leaf texture was best generally among the <u>Poa trivialis</u> containing mixtures.
- 4. Hybrid (or intermediate) ryegrasses (L. which are crosses between perennial X annual ryegrass, were generally closer to annual ryegrass in performance.
- 5. <u>L. hybridum</u> (Pick YNC) had better turf performance on most occasions when compared to annual ryegrass alone.
- 6. Intermediate and annual ryegrasses did show signs of decline in June (more so than ryegrass or Poa trivialis blends), which was desirable from a transition standpoint.

| <u>ENTRY</u>                      | COMPOSITION <sup>1</sup>                      | $\underline{SEED\ RATE\ LBS/1000\ FT^2}$ |
|-----------------------------------|---|--|
| 1. Catalina                       | 100% PR                                       | 19                                       |
| 2. Catalina/Winterplay            | 80% Catalina PR/20% Winter Play PT            | 15                                       |
| 3. Sonoran                        | 100% PR                                       | 19                                       |
| 4. Charger II                     | 100% PR                                       | 19                                       |
| 5. MP-5                           | 100% PR                                       | 19                                       |
|                                   |   |  |
| 6. EP 37                          | 100% PR                                       | 19                                       |
| 7. LP 9                           | 100% PR                                       | 19                                       |
| 8. Citation II                    | 100% PR                                       | 19                                       |
| 9. Majesty                        | 100% PR                                       | 19                                       |
| 10. Divine                        | 100% PR                                       | 19                                       |
|                                   |   |  |
| 11. Gulf                          | 100% AR                                       | 19                                       |
| 12. Pick YNC                      | 100% LH                                       | 19                                       |
| <ol><li>13. Leaderboard</li></ol> | 40% Panther PR/30% Omega PR/30% Mardi Gras PR | 19                                       |
| 14. Paragon                       | 100% PR                                       | 19                                       |
| 15. Laredo                        | 100% PR                                       | 19                                       |
|                                   |   |  |
| 16. Interim                       | 100% AR                                       | 19                                       |
| 17. First cut                     | 85% VIP III PR/15% Stardust PT                | 15                                       |
| 18. Vision Quest                  | 100% PR                                       | 19                                       |
| 19. Imag/Lynx/Peg                 | 33% Imagine PR/33% Lynx PR/33% Pegasus PR     | 19                                       |
| 20. Barverdi                      | 100% AR                                       | 19                                       |
| 21 05 1                           | 1000/ DD                                      | 10                                       |
| 21. 95-1                          | 100% PR                                       | 19                                       |
| 22. Pro-Select                    | 100% PR (blend?)                              | 19                                       |
| 23. Premier II                    | 100% PR                                       | 19                                       |
| 24. Turfstar Plus                 | 90% PR/10% PT                                 | 15                                       |
| 25. EPH                           | 100% PR or LH?                                | 19                                       |
| 26. TPD                           | 100% PR                                       | 19                                       |
| 27. WX5-195 HF                    | 100% PR                                       | 19                                       |
| 28. Vivid/Cath/Sel I              | 33% Vivid PR/33% Cathedral PR/33% Select I PR | 19                                       |
| 29. Select 1                      | 100% PR                                       | 19                                       |
| 30. 97-1157                       | 100% PR                                       | 19                                       |
| 30. 77-1137                       | 100/011                                       | 17                                       |
| 31. 97-1107                       | 100% PR                                       | 19                                       |
| 32. 97-1143                       | 100% PR                                       | 19                                       |
| 33. 97-1108                       | 100% PR                                       | 19                                       |
| 34. 97-1159                       | 100% PR                                       | 19                                       |
| 35. 97-1164                       | 100% PR                                       | 19                                       |
|                                   |   |  |
| 36. 97-1109                       | 100% PR                                       | 19                                       |
| 37. 97-1104                       | 100% PR                                       | 19                                       |
| 38. 97-1111                       | 100% PR                                       | 19                                       |
| 39. 97-1106                       | 100% PR                                       | 19                                       |
| 40. 97-1149                       | 100% PR                                       | 19                                       |
| 41 07 1150                        | 1000/ DD                                      | 10                                       |
| 41. 97-1150                       | 100% PR                                       | 19                                       |
| 42. 97-1142                       | 100% PR                                       | 19                                       |
| 43. 97-1197                       | 100% PR                                       | 19                                       |

| 44. 97-3809     | 100% PR | 19 |
|-----------------|---------|----|
| 45. 97-1196     | 100% PR | 19 |
| 46. 97-3807     | 100% PR | 19 |
| 47. 97-3806     | 100% PR | 19 |
| 48. 97-3808     | 100% PR | 19 |
| 49. P68-7-21    | 100% PR | 19 |
| 50. M59-6-663   | 100% PR | 19 |
| 51. LA20-6-PRMC | 100% PR | 19 |

<sup>&</sup>lt;sup>1</sup>Composition by species type

PR = perennial ryegrass/Lolium perenne AR = annual ryegrass/Lolium multiflorum PT = roughstalk bluegrass/Poa trivialis LH = hybrid or intermediate ryegrass/Lolium hybridum

<sup>&</sup>lt;sup>2</sup> Seed rate in lbs seed/1000 ft<sup>2</sup>.

| Laredo   | ENTRY                  | <u>MEAN</u> |
|--|------------------------|-------------|
| Interim 98  Cat'watreply 97  77-1159 97  97-1159 97  97-1159 97  97-1159 97  98-1 96  Vision Quest 96  IngarLynxPgss 96  Leaderboard 95  EPH 94  Majesty 94  Sonoran 93  Barverdi 93  97-1111 93  M59-6-663 93  First cut 93  Fremier II 93  Gulf 92  Pro-Select 92  Catalina 92  77-3808 92  LP 9 91  Turfstar plus 90  97-1143 90  97-1143 90  97-1144 88  Select 1 88  Charger II 87  Vivd/Cubd/Selst 1 87  Charger II 87  Charger II 87  Vivd/Cubd/Selst 1 87  Charger II 87  Vivd/Cubd/Selst 1 87  Charger II 87  Print Resident 88  97-1149 88  Charger II 87  Vivd/Cubd/Selst 1 87  LA20-6-PRMC 87  P68-7-21 86  Citation II 84  97-1107 83  97-3806 83  97-3806 83  97-3119 80  97-1197 80  Paragon 80  97-1197 80  Paragon 80  97-1197 80  Paragon 80  97-1180 78  P7-3809 78  97-3809 78  97-3809 78  97-3809 78  97-3809 78  97-3809 78  97-3809 78  97-3809 78  97-3807 75  97-1106 78  97-3807 75  97-1106 79  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 72  97-1106 68   | Laredo                 | 98          |
| WXS-195 HF 98 Carlwntrply 97 97-1159 97 97-1159 97 95-1 96 Vision Quest 96 Imgn/Lynx/Pgss 96 Lenderboard 95 EPH 94 Majesty 94 Sonoran 93 Barverdi 93 P7-1111 93 MS9-6-663 93 First cut 93 Fremier II 93 Gulf 92 Pro-Select 92 Catalina 92 Pro-Select 92 Catalina 92 97-3808 92 I.P 9 91 Turfstar plus 90 97-1143 90 Prick hybred YNC 89 EP 37 88 Select 1 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Cthd2/Slet 1 87 V |                        |             |
| Cat/wntply 97 97-1159 97 95-1 96 Vision Quest 96 Vision Quest 96 Vision Quest 96 Ingn/LynxPgss 96 Leaderboard 95 EPH 94 Majesty 94 Sonoran 93 Barverdi 93 97-1111 93 M59-6-663 93 First cut 93 Premier II 93 Gulf 92 Pro-Select 92 Catalina 92 Pro-Select 92 Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick hybred YNC 89 EP 37 88 Select 1 88 Select 1 88 97-1149 88 Charger II 87 LA20-6-PRMC 87 Charger II 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1109 82 P7-1109 82 P7-1190 82 P7-1190 82 P7-1191 80 Premier Resident 81 P7-1191 82 Premier Resident 82 Premier Resident 83 Premier Resident 83 Premier Resident 84 Premier Resident 85 Premier R |                        |             |
| 97-1150* 97-1150* 98-1 995-1 995-1 996 Vision Quest ImgnLVnxPgss 96 Leaderboard 95 EPH 94 Majesty 94 Sonoran 93 Barverdi 93 77-1111 93 M59-6-663 93 First cut 93 Premier II 93 Gulf 92 Pro-Select 92 Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 97-1143 90 97-1144 98 Charger II 87 Vivd'Chd2/Slct I 1   |                        |             |
| 95-1 Vision Quest Imgn/Lynx/Pgss 96 Imgn/Lynx/Pgss 96 Leaderboard 97 EPH 94 Majesty 94 Sonoran 93 Barverdi 93 97-1111 93 MS9-6-663 93 First cut 93 Premier II 93 Gulf 92 Pro-Select 92 Catalian 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick hybred YNC 89 FP 37 88 Select I 88 Select I 88 97-1149 88 Vord/Chdz/Slct I 87 Charger II 87 Vivd/Chdz/Slct I 87 1-420-6-PRMC 87 P68-7-21 Citation II 84 97-1109 82 97-1109 82 97-1199 82 97-1190 82 97-1190 82 97-1191 88 Praggon 89 Praggon 80 97-1190 89 Praggon 80 97-1190 89 Praggon 80 97-1190 89 Praggon 80 97-1190 89 Praggon 99 Praggon 97 Praggon 98 Praggon 98 Praggon 99 Praggon  |                        |             |
| Vision Quest         96           Imgn/Lynx/Pgss         96           Leaderboard         95           EPH         94           Majesty         94           Sonoran         93           Barverdi         93           97-1111         93           MS9-6-663         93           First cut         93           Fremer II         93           Gulf         92           Pro-Select         92           Catalina         92           97-3808         92           LP 9         91           Turfstar plus         90           97-1143         90           Pick hybred YNC         89           EP 37         88           Select 1         88           97-1149         88           Charger II         87           Vivd/Chd2/Slc1         87           LA20-6-PRMC         87           P68-7-21         86           Citation II         84           97-1104         83           97-3806         83           97-1109         82           Divine         82   |                        |             |
| Imgn/Lynx/Pgss         96           Leaderboard         95           EPH         94           Majesty         94           Sonoran         93           Barvedi         93           97-1111         93           M99-6-663         93           First cut         93           Premier II         93           Gulf         92           Pro-Select         92           Catalina         92           97-3808         92           LP 9         91           Turistar plus         90           97-1143         90           Pick. hybred YNC         89           EP 37         88           Select 1         88           89 - 1149         88           Charger II         87           Vivd/Chdz/Slct 1         87           LA20-6-PRMC         87           P68-7-21         86           Citation II         84           97-1107         83           97-3806         83           97-1197         80           Paragem         80           97-1197         80  |                        | 96          |
| Leaderboard       95         EPH       94         Majesty       94         Sonoran       93         Barverdi       93         97-1111       93         M59-6-663       93         First cut       93         Premier II       93         Gulf       92         Pro-Select       92         Catalina       92         97-3808       92         LP 9       91         Turfstar plus       90         97-1143       90         Pick hybred YNC       89         EF 37       88         Select 1       88         89 -1149       88         Charger II       87         Vivd/Chd2/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1104       83         97-1109       82         Divine       82         TPD       82         97-1197       80         Paragon       80         97-1196       78         97-1196       78 <td< td=""><td></td><td></td></td<>   |                        |             |
| EPH Majesty 94 Majesty 994 Sonoran 93 Barverdi 93 77-1111 93 M59-6-663 93 First cut 93 Fremier II 93 Gulf 92 Pro-Select 92 Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick .hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Ctd2/Slct 1 1 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1104 83 97-1109 82 Divine 19 19 19 10 10 10 10 10 10 10 10 10 10 10 10 10   | Leaderboard            | 95          |
| Sonoran Barverdi 93 Barverdi 93 97-1111 93 M59-6-663 93 First cut 93 Premier II 93 Gulf 92 Pro-Select 92 Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Fick .hybred YNC 89 FB 37 88 Select 1 88 Select 1 88 Select 1 88 Select 1 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1109 82 Divine 82 Divine 82 P7-1142 80 P7-1142 80 P7-1143 80 P7-1190 82 P7-1190 82 P7-1190 82 P7-1190 82 P7-1190 82 P7-1190 89 P7-180 89 P7-3809 78 P7-3809 78 P7-3809 78 P7-3809 78 P7-1196 78 P7-3807 P7-1150 78 P7-3809 78 P7-1150 79 P7-3807 75 P7-1106 72 P7-1106 72 P7-11157   |                        |             |
| Sonoran       93         Barverdi       93         97-1111       93         MS9-6-663       93         First cut       93         Premier II       93         Gulf       92         Pro-Select       92         Catalina       92         97-3808       92         LP 9       91         Turfstar plus       90         97-1143       90         Pick, hybred YNC       89         EP 37       88         Select 1       88         97-1149       88         Charger II       87         Vivd/Chtd/Z/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1104       83         97-1109       82         Divine       82         P1142       80         97-1197       80         Paragon       80         97-1190       82         97-1197       80         Paragon       80         97-1196       78         97-1196       78   | Majesty                | 94          |
| 97-1111 93 M59-6-63 93 Premier II 93 Gulf 92 Pro-Select 92 Catalina 92 1.P9 91 Turfstar plus 90 97-1143 90 Pick hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 97-1149 88 97-1149 88 97-1140 87 Charger II 87 Charger II 87 P68-7-21 86 Citation II 84 97-1104 83 97-1104 83 97-1109 82 1PD 82 1PD 82 1PD 82 1P-197 80 1P-198 80 1P-199 80 1P-1190 82 1P-1190 78  |                        | 93          |
| M59-6-663 First cut 93 First cut 93 Fremier II 93 Gulf 92 Pro-Select 92 Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick hybred YNC 89 FEF 37 88 Select 1 88 97-1149 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1107 83 97-3806 83 97-1109 82 P7-1142 80 97-1150 88 Pragon 97-1150 78 Paragon 97-1196 97-1197 97-3807 97-3807 97-1196 97-1196 97-1196 97-1196 97-1196 97-1197 97-3807 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106   | Barverdi               | 93          |
| First cut Premier II 93 Culf 92 Pro-Select 92 Catalina 92 Turfstar plus 97 Turfstar plus 90 Pro-Nebert 99 Fro-Nebert 99 Fro-Nebe | 97-1111                | 93          |
| Premier II       93         Gulf       92         Pro-Select       92         Catalina       92         97-3808       92         LP 9       91         Turfstar plus       90         97-1143       90         Pick hybred YNC       89         EP 37       88         Select 1       88         97-1149       88         Charger II       87         Vivi/Cthd2/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1107       83         97-1108       83         97-1199       82         Divine       82         TPD       82         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-1196       78         97-1196       78         97-1106       72         97-1104       68  | M59-6-663              | 93          |
| Gulf Pro-Select Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 97-1149 88 Charger II Kindchd2/Slet 1 LA20-6-PRMC 87 F08-7-21 86 Citation II 87 97-1104 83 97-1107 83 97-3806 97-1109 82 Divine 82 TPD B2 Divine 82 P7-1142 80 97-1150 78 MP 5 97-3809 97-1150 78 97-3809 97-1150 78 97-1157 97-3807 97-1196 97-1157 97-3807 97-1196 97-1157 97-3807 97-1196 97-1196 97-1197 97-3807 97-1196 97-1196 97-1197 97-3807 97-1196 97-1197 97-3807 97-1196 97-1197 97-3807 97-1196 97-1196 97-1196 97-1196 97-1196 97-1197 97-3807 97-3807 97-3807 97-1196 97-11164  | First cut              |             |
| Pro-Select 92 Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick .hybred YNC 89 EF 37 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Cthd2/Slet 1 87 LA20-6-PRMC 87 C6-PRMC 87 C6-T104 88 97-1104 83 97-1104 83 97-1109 82 Divine 82 Divine 82 TPD 82 Divine 82 97-1142 80 97-1150 78 MP 5 78 Prison 80 | Premier II             |             |
| Catalina 92 97-3808 92 LP 9 91 Turfstar plus 90 97-1143 90 Pick .hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 97-1142 80 97-1150 78 Paragon 80 Paragon 80 97-1150 78 97-3809 78 97-1157 97-3807 75 97-1157 97-3807 75 97-1106 72 97-11164 68  | Gulf                   |             |
| 97-3808 LP 9 91 Turfstar plus 90 97-1143 90 Pick hybred YNC 89 EP 37 88 Select 1 88 7-1149 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-3806 83 97-1107 83 97-3806 83 97-1109 82 Divine TPD 82 P7-1142 80 97-1150 88 P8 P8 P8 P9-3809 97-3809 97-3809 97-3809 97-3807 97-3807 97-3807 97-3807 97-3807 97-3807 97-3807 97-3807 97-3807 97-1150 97-1150 98 P9-1150 99-1 | Pro-Select             |             |
| LP 9 Turfstar plus 90 97-1143 90 Pick .hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 97-1142 80 97-1150 78 Paragon 80 97-1150 78 MP 5 78 97-3809 78 97-1196 78 97-1196 78 97-1197 79 97-3809 78 97-1196 78 97-1197 97-3809 78 97-1196 79 97-1196 78 97-1197 97-3809 78 97-1196 79 97-1106 72 97-1106 72   |                        |             |
| Turfstar plus 90 97-1143 90 Pick hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Chtd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 TPD 82 97-1142 80 97-1142 80 97-1150 78 Paragon 80 97-1150 78 MP 5 78 97-3809 78 97-3809 78 97-3809 78 97-1157 77 97-3807 75 97-1106 72 97-11106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106 97-1106  |                        |             |
| 97-1143 90 Pick hybred YNC 89 EP 37 88 Select 1 88 97-1149 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 Divine 82 97-1142 80 97-1142 80 97-1142 80 97-1150 78 MP 5 78 MP 5 78 97-3809 78 97-1196 78 97-1196 78 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 79 97-1106 72  |                        |             |
| Pick hybred YNC       89         EP 37       88         Select 1       88         97-1149       88         Charger II       87         Vivd/Cthd2/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1104       83         97-1107       83         97-3806       83         97-1199       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-116       78         97-1106       72         97-1106       72         97-1104       68   |                        |             |
| EP 37       88         Select 1       88         97-1149       88         Charger II       87         Vivd/Cthd2/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1104       83         97-1107       83         97-3806       83         97-119       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-1106       72         97-1106       72         97-1164       68  |                        |             |
| Select 1       88         97-1149       88         Charger II       87         Vivd/Cthd2/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1104       83         97-1107       83         97-3806       83         97-1109       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68  |                        |             |
| 97-1149 88 Charger II 87 Vivd/Cthd2/Slct 1 87 LA20-6-PRMC 87 P68-7-21 86 Citation II 84 97-1104 83 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 97-1142 80 97-1142 80 97-1150 78 MP 5 97-3809 97-8809 97-1157 77 97-3807 97-1164 68   |                        |             |
| Charger II   |                        |             |
| Vivd/Cthd2/Slct 1       87         LA20-6-PRMC       87         P68-7-21       86         Citation II       84         97-1104       83         97-1107       83         97-3806       83         97-1109       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1166       78         97-1196       78         97-1106       72         97-1106       72         97-1164       68  |                        |             |
| LA20-6-PRMC P68-7-21 86 Citation II 84 97-1104 83 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 97-1142 80 97-1197 80 Paragon 80 Paragon 80 97-1150 78 MP 5 78 97-3809 78 97-1196 78 97-1157 77 97-3807 97-1106 72 97-1106 72  | Charger II             |             |
| P68-7-21       86         Citation II       84         97-1104       83         97-1107       83         97-3806       83         97-1109       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68   |                        |             |
| Citation II       84         97-1104       83         97-1107       83         97-3806       83         97-1109       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68  |                        |             |
| 97-1104 83 97-1107 83 97-3806 83 97-1109 82 Divine 82 TPD 82 97-1142 80 97-1197 80 Paragon 80 97-1150 78 MP 5 78 97-3809 78 97-1196 78 97-1157 77 97-3807 75 97-1106 72 97-1106 72   |                        |             |
| 97-1107       83         97-3806       83         97-1109       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-3807       75         97-1106       72         97-1164       68   |                        |             |
| 97-3806 83 97-1109 82 Divine 82 TPD 82 97-1142 80 97-1197 80 Paragon 80 97-1150 78 MP 5 78 97-3809 78 97-1196 78 97-1197 77 97-3807 75 97-1106 72 97-1104 68   |                        |             |
| 97-1109       82         Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-3807       75         97-1106       72         97-1164       68   |                        |             |
| Divine       82         TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-3807       75         97-1106       72         97-1164       68  |                        |             |
| TPD       82         97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68   |                        | 92          |
| 97-1142       80         97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68  |                        |             |
| 97-1197       80         Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68   |                        |             |
| Paragon       80         97-1150       78         MP 5       78         97-3809       78         97-1196       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68  |                        |             |
| 97-1150     78       MP 5     78       97-3809     78       97-1196     78       97-1157     77       97-3807     75       97-1106     72       97-1164     68   |                        |             |
| MP 5     78       97-3809     78       97-1196     78       97-1157     77       97-3807     75       97-1106     72       97-1164     68  |                        |             |
| 97-3809       78         97-1196       78         97-1157       77         97-3807       75         97-1106       72         97-1164       68  |                        |             |
| 97-1196     78       97-1157     77       97-3807     75       97-1106     72       97-1164     68   |                        |             |
| 97-1157     77       97-3807     75       97-1106     72       97-1164     68  |                        |             |
| 97-3807 75<br>97-1106 72<br>97-1164 68   |                        |             |
| 97-1106 72<br>97-1164 68   |                        |             |
| 97-1164 68   |                        | 72          |
|  | 97-1164                | 68          |
| 97-1108 53   | 97-1108                | 53          |
| TEST MEAN <sup>3</sup> 87  | TEST MEAN <sup>3</sup> | 87          |
| LSD VALUE <sup>4</sup> 18  |                        |             |

<sup>&</sup>lt;sup>1</sup>Percent of plot with established turf December 17, 1997.

<sup>2</sup>Values are the means of three replications.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 2. Mean<sup>1</sup> turfgrass color<sup>2</sup> scores of overseed entries 1997-1998. University of Arizona

| Table 2. Mean <sup>1</sup> turfgrass |     | ed entries 1997-1998. Ur | niversity of Arizona. |            |
|--------------------------------------|-----|--------------------------|-----------------------|------------|
| ENTRY                                | DEC | <u>JAN</u>               | MAR                   | WINTER AVG |
|                                      |     |                          |                       |            |
| 97-1143                              | 8.5 | 8.0                      | 8.0                   | 7.9        |
| 97-1159                              | 7.7 | 7.7                      | 7.3                   | 7.6        |
| 97-1111                              | 7.7 | 7.7                      | 7.0                   | 7.4        |
| 97-1109                              | 6.7 | 7.7                      | 7.7                   | 7.3        |
| 97-1150                              | 6.7 | 7.0                      | 8.0                   | 7.2        |
| M59-6-663                            | 7.7 | 6.0                      | 8.0                   | 7.2        |
| 97-1107                              | 7.0 | 7.3                      | 7.3                   | 7.2        |
| 97-1106                              | 6.3 | 7.3                      | 7.7                   | 7.1        |
| 97-1142                              | 7.0 | 6.3                      | 8.0                   | 7.1        |
| 97-1197                              | 6.7 | 7.3                      | 7.3                   | 7.1        |
| 97-1108                              | 6.3 | 7.0                      | 7.7                   | 7.0        |
| 97-3809                              | 5.5 | 7.3                      | 7.7                   | 7.0        |
| 97-1196                              | 7.0 | 7.3                      | 6.7                   | 7.0        |
| 97-3808                              | 6.0 | 7.0                      | 7.3                   | 6.9        |
| 97-1164                              | 6.5 | 6.3                      | 7.7                   | 6.8        |
| 97-1157                              | 6.3 | 7.3                      | 6.7                   | 6.8        |
| 97-3806                              | 7.5 | 6.7                      | 6.7                   | 6.8        |
|                                      | 6.0 | 6.7                      | 7.0                   | 6.6        |
| 95-1                                 |     |                          |                       |            |
| 97-1104                              | 5.3 | 6.7                      | 7.7                   | 6.6        |
| Imgn/Lynx/Pgss                       | 6.7 | 6.7                      | 6.0                   | 6.4        |
| Majesty                              | 6.7 | 6.0                      | 6.7                   | 6.4        |
| 97-3807                              | 6.5 | 6.0                      | 7.0                   | 6.4        |
| 97-1149                              | 7.0 | 6.3                      | 6.3                   | 6.4        |
| LP 9                                 | 7.0 | 6.0                      | 6.0                   | 6.3        |
| P68-7-21                             | 6.0 | 6.7                      | 6.3                   | 6.3        |
| EP 37                                | 6.3 | 5.7                      | 6.3                   | 6.1        |
| Premier II                           | 6.0 | 6.0                      | 6.3                   | 6.1        |
| Cat/wntrply                          | 6.7 | 6.0                      | 5.0                   | 5.9        |
| Sonoran                              | 5.7 | 6.0                      | 6.0                   | 5.9        |
| Select 1                             | 5.7 | 6.0                      | 6.0                   | 5.9        |
| LA20-6-PRMC                          | 5.0 | 6.7                      | 6.0                   | 5.9        |
| Catalina                             | 5.7 | 5.7                      | 6.3                   | 5.9        |
| Paragon                              | 5.7 | 6.0                      | 6.0                   | 5.9        |
| WX5-195 HF                           | 6.0 | 5.7                      | 6.0                   | 5.9        |
| Divine                               |     |                          | 5.7                   |            |
|                                      | 5.7 | 6.0                      |                       | 5.8        |
| Charger II                           | 5.7 | 5.7                      | 5.7                   | 5.7        |
| Vivd/Cathd2/Slct 1                   | 5.3 | 5.7                      | 6.0                   | 5.7        |
| MP 5                                 | 5.0 | 6.7                      | 5.0                   | 5.6        |
| Turfstar Plus                        | 5.7 | 6.0                      | 4.7                   | 5.4        |
| Leaderboard                          | 5.7 | 5.3                      | 5.3                   | 5.4        |
| Pro-Select                           | 5.3 | 5.7                      | 5.3                   | 5.4        |
| Citation II                          | 5.5 | 5.3                      | 5.3                   | 5.4        |
| Pick hybred YNC                      | 5.7 | 5.7                      | 4.7                   | 5.3        |
| Laredo                               | 5.3 | 5.7                      | 5.0                   | 5.3        |
| EPH                                  | 5.0 | 5.3                      | 5.3                   | 5.2        |
| First cut                            | 4.7 | 5.7                      | 5.0                   | 5.1        |
| TPD                                  | 4.3 | 5.7                      | 5.0                   | 5.0        |
| Vision quest                         | 5.0 | 4.7                      | 5.0                   | 4.9        |
| Gulf                                 | 4.0 | 4.0                      | 3.3                   | 3.8        |
| Interim                              | 3.7 | 4.0                      | 3.7                   | 3.8        |
| Barverdi                             | 4.0 | 4.0                      | 3.3                   | 3.8        |
| Dui (Viui                            |     | 1.0                      | 5.5                   | 5.0        |
| TEST MEAN <sup>3</sup>               | 5.8 | 5.8                      | 5.6                   | 5.7        |
| LSD VALUE <sup>4</sup>               | 1.5 | 1.3                      | 1.5                   | 1.2        |
| LUD TIEUE                            | 1.0 |                          |                       | 1.2        |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Color 1-9. 1 = dead, 9 = darkest green.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 3. Mean<sup>1</sup> turfgrass color<sup>2</sup> scores of overseed entries 1997-1998. University of Arizona.

| <u>ENTRY</u>           | <u>APR</u> | MAY        | <u>JUNE</u> | SPRING AVG |
|------------------------|------------|------------|-------------|------------|
| 97-1197                | 8.0        | 7.7        | 7.0         | 7.6        |
| 97-1142                | 8.0        | 7.7        | 6.7         | 7.4        |
| 97-1143                | 7.3        | 7.7        | 6.7         | 7.2        |
| 97-3809                | 7.7        | 7.0        | 7.0         | 7.2        |
| 95-1                   | 7.7        | 6.7        | 7.0         | 7.1        |
| 97-1150                | 7.3        | 6.7        | 7.3         | 7.1        |
| 97-1109                | 8.0        | 6.3        | 6.7         | 7.0        |
| 97-1196                | 7.0        | 7.0        | 7.0         | 7.0        |
| M59-6-663              | 7.7        | 7.0        | 6.3         | 7.0        |
| 97-3808                | 7.3        | 7.0        | 6.3         | 6.9        |
| 97-1108                | 7.3        | 6.7        | 6.3         | 6.8        |
| 97-1111                | 6.7        | 7.0        | 6.7         | 6.8        |
| 97-1157                | 6.3        | 6.7        | 7.0         | 6.7        |
| 97-1159                | 6.3        | 6.7        | 7.0         | 6.7        |
| 97-3807                | 6.7        | 6.7        | 6.3         | 6.6        |
| 97-1106                | 7.0        | 6.7        | 6.0         | 6.6        |
| 97-1104                | 7.0        | 6.3        | 6.0         | 6.4        |
| 97-1164                | 7.0        | 6.3        | 5.7         | 6.3        |
| 97-1107                | 6.3        | 6.0        | 6.3         | 6.2        |
| 97-3806                | 6.3        | 6.7        | 5.7         | 6.2        |
| Premier II             | 6.7        | 6.0        | 6.5         | 6.2        |
| 97-1149                | 6.0        | 6.0        | 6.5         | 6.1        |
| Majesty                | 6.0        | 6.3        | 6.0         | 6.1        |
| Paragon                | 5.7        | 6.0        | 6.3         | 6.0        |
| Select 1               | 6.0        | 6.3        | 5.7         | 6.0        |
| Citation II            | 5.7        | 6.3        | 5.7         | 5.9        |
| Imgn/Lynx/Pgss         | 6.0        | 5.7        | 5.7         | 5.8        |
| Catalina               | 5.3        | 5.7        | 5.7         | 5.6        |
| LA20-6-PRMC            | 6.0        | 5.3        | 5.5         | 5.6        |
| LP 9                   | 6.0        | 5.0        | 5.7         | 5.6        |
| Sonoran                | 5.0        | 5.7        | 5.7         | 5.4        |
| EP 37                  | 5.3        | 6.0        | 5.0         | 5.4        |
| P68-7-21               | 5.3        | 5.7        | 5.3         | 5.4        |
| Leaderboard            | 5.3        | 5.3        | 5.3         | 5.3        |
| WX5-195 HF             | 5.3        | 5.7        | 5.0         | 5.3        |
| Vivd/Cthd2/Slct1       | 5.0        | 5.7        | 5.3         | 5.3        |
|                        | 5.3        | 5.3        | 5.0         | 5.2        |
| Charger II<br>Divine   | 4.7        | 5.3        | 5.7         | 5.2        |
| Pro-Select             | 4.7        | 5.3        | 5.5         | 5.1        |
| Laredo                 | 5.0        | 4.7        | 5.3         | 5.0        |
|                        | 4.7        | 5.0        | 5.0         | 4.9        |
| Cat/wntrply<br>MP 5    | 4.7        | 5.0        | 4.7         | 4.7        |
| TPD                    |            |            |             |            |
|                        | 4.0<br>3.7 | 5.0<br>5.3 | 5.0<br>4.7  | 4.7        |
| Turfstar plus          |            |            |             | 4.6        |
| First cut<br>EPH       | 4.0        | 4.7<br>4.7 | 4.7<br>4.3  | 4.4        |
|                        | 4.3        | 4.7        | 4.3         | 4.4<br>4.0 |
| Pick hybred YNC        | 3.7        | 4.3        |             |            |
| Vision quest           | 4.0        | 4.0<br>3.7 | 3.3         | 3.8        |
| Barverdi               | 3.0        |            | 3.0         | 3.2        |
| Interim                | 2.7        | 3.0        | 2.0         | 2.6        |
| Gulf                   | 2.0        | 3.0        | 1.7         | 2.2        |
| TEST MEAN <sup>3</sup> | 5.8        | 5.8        | 5.6         | 5.7        |
| LSD VALUE <sup>4</sup> | 5.8<br>1.5 | 1.3        | 1.5         | 1.2        |
| EGD TILUE              | 1.J        | 1.J        | 1.0         | 1.4        |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications. <sup>2</sup>Color 1-9. 1 = dead, 9 = darkest green. <sup>3</sup>Test Mean = mean of all entries.

<sup>&</sup>lt;sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 4. Mean<sup>1</sup> turfgrass quality<sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona

| Table 4. Mean¹ turfgi  | Table 4. Mean <sup>1</sup> turfgrass quality <sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona |            |     |            |  |  |
|------------------------|--|------------|-----|------------|--|--|
| ENTRY                  | DEC  | <u>JAN</u> | MAR | WINTER AVG |  |  |
| Catalina               | 7.3  | 6.7        | 6.3 | 6.8        |  |  |
| M59-6-663              | 7.3  | 7.3        | 5.7 | 6.8        |  |  |
| Cat/wntrply            | 6.3  | 7.7        | 6.3 | 6.8        |  |  |
| First cut              | 7.0  | 7.3        | 6.0 | 6.8        |  |  |
| Imgn/Lynx/Pgss         | 6.7  | 7.0        | 6.7 | 6.8        |  |  |
| Sonoran                | 6.7  | 6.7        | 6.7 | 6.7        |  |  |
| 97-1111                | 7.0  | 7.0        | 5.7 | 6.6        |  |  |
| LP 9                   | 7.0  | 6.7        | 6.0 | 6.6        |  |  |
| Leaderboard            | 7.0  | 7.0        | 5.7 | 6.6        |  |  |
| WX5-195 HF             | 7.7  | 6.7        | 5.3 | 6.6        |  |  |
| Laredo                 | 6.7  | 6.7        | 5.7 | 6.3        |  |  |
| Turfstar plus          | 7.0  | 7.0        | 5.0 | 6.3        |  |  |
| 97-1159                | 7.0  | 7.0        | 5.3 | 6.3        |  |  |
| Charger II             | 6.3  | 6.7        | 5.7 | 6.2        |  |  |
| Pro-Select             | 7.0  | 6.7        | 5.0 | 6.2        |  |  |
| Select 1               | 6.3  | 6.7        | 5.7 | 6.2        |  |  |
|                        | 6.0  | 6.7        | 6.0 | 6.2        |  |  |
| Majesty<br>Premier II  | 6.7  | 7.0        | 5.0 | 6.2        |  |  |
|                        | 6.7  | 6.3        | 5.3 | 6.1        |  |  |
| EP 37                  |  |            |     |            |  |  |
| 97-1107                | 6.0  | 6.3        | 6.0 | 6.1        |  |  |
| 95-1<br>D: :           | 6.3  | 6.0        | 5.7 | 6.0        |  |  |
| Divine                 | 5.7  | 6.3        | 5.7 | 5.9        |  |  |
| Vivd/Cthd2/Slct1       | 6.3  | 6.0        | 5.3 | 5.9        |  |  |
| 97-1104                | 6.3  | 5.7        | 5.7 | 5.9        |  |  |
| Paragon                | 5.3  | 6.7        | 5.3 | 5.8        |  |  |
| 97-3808                | 6.0  | 6.3        | 5.3 | 5.8        |  |  |
| LA20-6-PRMC            | 5.7  | 6.7        | 5.0 | 5.8        |  |  |
| 97-1157                | 5.7  | 5.7        | 5.7 | 5.7        |  |  |
| P68-7-21               | 6.0  | 5.7        | 5.3 | 5.7        |  |  |
| Citation II            | 6.5  | 6.0        | 5.0 | 5.6        |  |  |
| 97-3806                | 6.5  | 6.0        | 5.0 | 5.6        |  |  |
| MP 5                   | 4.5  | 7.0        | 4.7 | 5.6        |  |  |
| EPH                    | 6.3  | 6.0        | 4.3 | 5.6        |  |  |
| 97-1149                | 6.0  | 6.3        | 4.7 | 5.6        |  |  |
| 97-1150                | 6.0  | 5.3        | 5.3 | 5.6        |  |  |
| 97-1197                | 5.7  | 6.0        | 5.0 | 5.6        |  |  |
| Pick hybred YNC        | 5.7  | 6.3        | 4.7 | 5.6        |  |  |
| 97-1143                | 6.5  | 6.0        | 4.7 | 5.4        |  |  |
| 97-1142                | 5.0  | 6.3        | 5.0 | 5.4        |  |  |
| 97-1196                | 6.0  | 5.7        | 5.0 | 5.4        |  |  |
| 97-3807                | 5.0  | 5.7        | 5.0 | 5.3        |  |  |
| 97-1109                | 5.3  | 5.0        | 5.3 | 5.2        |  |  |
| 97-1106                | 5.7  | 5.3        | 4.3 | 5.1        |  |  |
| 97-1108                | 5.3  | 5.3        | 4.3 | 5.0        |  |  |
| 97-3809                | 5.5  | 5.0        | 4.7 | 5.0        |  |  |
| 97-1164                | 5.5  | 5.0        | 4.3 | 4.9        |  |  |
| Vision quest           | 5.0  | 5.7        | 4.0 | 4.9        |  |  |
| Barverdi               | 4.7  | 5.3        | 4.0 | 4.7        |  |  |
| TPD                    | 4.0  | 4.3        | 3.3 | 3.9        |  |  |
| Interim                | 3.7  | 4.3        | 3.3 | 3.8        |  |  |
| Gulf                   | 3.3  | 4.0        | 3.0 | 3.4        |  |  |
| TEST MEAN <sup>3</sup> | 6.0  | 6.2        | 5.2 | 5.8        |  |  |
| LSD VALUE <sup>4</sup> | 1.7  | 1.5        | 1.4 | 1.2        |  |  |
|                        |  | •          |     |            |  |  |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Quality 1-9. 1 = dead, 9 = best possible.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 5. Mean<sup>1</sup> turfgrass quality<sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona.

| 97-1197 5.7 6.3 6.0 6.0 5.9 97-1107 5.7 6.0 6.3 6.3 5.9 97-1107 5.7 6.0 6.3 6.3 5.9 97-1111 5.0 6.3 6.3 5.9 5.9 97-1111 5.0 6.3 6.3 5.9 5.9 97-1309 5.7 6.0 6.0 5.9 97-3809 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 6.0 5.9 10.2 10.2 10.2 10.2 10.2 10.2 10.2 10.2  | <u>ENTRY</u>           | <u>DEC</u> | JAN | MAR | WINTER AVG |
|--|------------------------|------------|-----|-----|------------|
| 97-1107  | 97-1197                | 5.7        | 6.3 | 6.0 | 6.0        |
| 97-1107  | Imgn/Lynx/Pgss         | 5.3        | 6.3 | 6.0 | 5.9        |
| Sonoran   S.7   6.7   S.3   S.9  |                        |            | 6.0 | 6.0 | 5.9        |
| Premier II 5.7 6.3 6.0 5.9 97-3809 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.8 Paragon 5.0 6.0 6.3 5.8 Paragon 5.0 6.0 6.0 5.8 Paragon 5.0 6.0 6.0 5.8 Vivid'Cthd/Silet 5.3 6.3 5.7 5.8 95-1 5.3 6.0 5.7 5.8 95-1 5.3 6.0 5.7 5.7 5.8 95-1 5.3 6.0 5.7 5.7 5.7 Divine 5.3 6.0 5.7 5.7 5.7 5.7 Divine 5.3 6.0 5.7 5.7 5.6 97-1157 5.3 6.0 5.0 5.7 5.6 97-1150 5.0 6.0 5.7 5.6 97-1150 5.0 6.0 5.7 5.6 97-1142 5.0 6.3 5.3 5.6 97-1150 5.0 6.0 5.7 5.6 97-1142 5.0 6.3 5.3 5.6 97-3806 4.7 6.3 5.3 5.6 97-3806 4.7 6.3 5.3 5.6 97-3806 4.7 6.3 5.7 5.6 9.5 5.2 Elect 1 5.0 6.0 5.3 5.4 Elect 1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0   | 97-1111                | 5.0        | 6.3 | 6.3 | 5.9        |
| 97-3809 5.7 6.0 6.0 5.9 97-3808 5.7 6.0 6.0 5.9 Leaderboard 5.0 6.3 6.0 5.8 Paragon 5.0 6.0 6.3 5.8 Paragon 5.0 6.0 6.3 5.8 Paragon 5.0 6.0 6.0 5.8 Paragon 5.0 6.0 6.0 5.8 Vivd/Chtd2/Stct1 5.3 6.3 5.7 5.8 95-1 5.3 6.0 5.7 5.8 Majesty 5.3 6.0 5.7 5.7 97-1196 5.3 6.0 5.7 5.7 97-1196 4.7 6.3 6.0 5.7 5.7 97-1196 5.0 6.0 5.7 5.7 5.6 97-1150 5.0 6.0 5.3 5.6 97-1150 5.0 6.0 5.7 5.7 5.6 97-1150 5.0 6.3 5.3 5.6 97-3806 4.7 6.3 5.7 5.6 97-3806 4.7 6.3 5.7 5.6 LA20-6-PRMC 4.7 6.3 5.7 5.6 LP 9 5.7 5.7 5.0 5.4 Select 1 5.0 6.0 5.3 5.4 Select 1 5.0 6.0 5.3 5.4 M59-6-63 4.0 6.3 6.0 5.3 5.4 M59-6-663 4.0 6.3 6.0 5.3 M59-6-663 5.0 5.0 5.0 5.4 M59-6-663 5.0 5.0 5.0 5.0 5.4 M59-6-663 5.0 5.0 5.0 5.0 5.4 M59-6-663 5.0 5.0 5.0 5.0 5.3 M59-1144 5.0 6.0 5.3 5.3 5.4 M59-6-663 5.0 5.0 5.0 5.0 5.0 5.0 Phager II 4.7 5.7 5.7 5.7 5.3 First cut 4.7 6.0 5.3 5.3 Pro-Select 5.0 5.7 5.3 5.3 Pro-Select 5.0 5.0 5.3 5.3 Pro-Select 5.0 5.3 5.3 5.3 Pro-Select 5.0 5.0 5.3 5.3 Pro-Select 5.0 5.0 5.3 5.3 Pro-Select 5.0 5.3 5.3 5.3 Pro-Select 5.0  | Sonoran                | 5.7        | 6.7 | 5.3 | 5.9        |
| 97-3808 5.7 6.0 6.0 5.9 Leaderboard 5.0 6.3 6.0 5.8 Paragon 5.0 6.0 6.3 5.8 Turistar plus 4.7 7.0 6.0 5.8 Vivid/Chtb2/Stc1 5.3 6.3 5.7 5.8 95-1 5.3 6.0 5.7 5.7 Divine 5.3 6.0 5.7 5.7 Divine 5.3 6.0 5.7 5.7 Divine 5.3 6.0 5.7 5.7 Citation II 4.3 6.7 5.7 5.6 97-1196 4.7 6.3 6.0 5.3 5.6 97-11157 5.3 6.0 5.3 5.6 97-11157 5.3 6.0 5.3 5.6 97-1142 5.0 6.0 5.7 5.7 5.6 97-1142 5.0 6.3 5.3 5.6 97-3806 4.7 6.3 5.3 5.6 97-3806 4.7 6.3 5.7 5.6 LP9 5.7 5.7 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.4 Catalina 5.0 5.0 5.0 5.0 5.4 Catalina 5.0 5.0 5.0 5.7 5.3 Prist cut 4.7 6.0 5.3 5.3 Pro-Select 5.0 5.7 5.7 5.3 Pro-Select 5.0 5.7 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1159 4.0 6.0 5.3 5.3 97-1164 5.0 6.0 5.3 5.3 97-1164 5.0 6.0 5.3 5.3 97-1164 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 97-1104 5.0 6.0 5.3 97-1104 5.0 6.0 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1109 5.0 5.3 5.3 97- | Premier II             | 5.7        | 6.3 | 6.0 | 5.9        |
| 97-3808 5.7 6.0 6.0 5.9 Leaderboard 5.0 6.3 6.0 5.8 Paragon 5.0 6.0 6.3 5.8 Turistar plus 4.7 7.0 6.0 5.8 Vivid/Chtb2/Stc1 5.3 6.3 5.7 5.8 95-1 5.3 6.0 5.7 5.7 Divine 5.3 6.0 5.7 5.7 Divine 5.3 6.0 5.7 5.7 Divine 5.3 6.0 5.7 5.7 Citation II 4.3 6.7 5.7 5.6 97-1196 4.7 6.3 6.0 5.3 5.6 97-11157 5.3 6.0 5.3 5.6 97-11157 5.3 6.0 5.3 5.6 97-1142 5.0 6.0 5.7 5.7 5.6 97-1142 5.0 6.3 5.3 5.6 97-3806 4.7 6.3 5.3 5.6 97-3806 4.7 6.3 5.7 5.6 LP9 5.7 5.7 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.4 Catalina 5.0 5.0 5.0 5.0 5.4 Catalina 5.0 5.0 5.0 5.7 5.3 Prist cut 4.7 6.0 5.3 5.3 Pro-Select 5.0 5.7 5.7 5.3 Pro-Select 5.0 5.7 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1159 4.0 6.0 5.3 5.3 97-1164 5.0 6.0 5.3 5.3 97-1164 5.0 6.0 5.3 5.3 97-1164 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 5.3 97-1104 5.0 6.0 5.3 97-1104 5.0 6.0 5.3 97-1104 5.0 6.0 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1109 5.0 5.3 5.3 97- | 97-3809                | 5.7        | 6.0 | 6.0 | 5.9        |
| Leaderboard         5.0         6.3         6.0         5.8           Paragon         5.0         6.0         6.3         5.8           Turfstar plus         4.7         7.0         6.0         5.8           Vivd/Chd2/Slct1         5.3         6.3         5.7         5.8           95-1         5.3         6.0         6.0         5.7         5.7           Divine         5.3         6.0         5.7         5.7         5.7           97-1196         4.7         6.3         6.0         5.7         5.7           97-1197         5.3         6.0         5.7         5.7         5.7           97-1196         4.7         6.3         6.0         5.7         5.6         97-1196         4.7         6.3         6.0         5.7         5.6         97-1197         5.3         6.0         5.3         5.6         97-1195         5.0         6.0         5.7         5.6         97-1142         5.0         6.3         5.3         5.6         97-1142         5.0         6.3         5.3         5.6         97-1150         5.0         6.0         5.7         5.6         1.2         9.9         5.7         5.6         1.2  | 97-3808                | 5.7        | 6.0 | 6.0 | 5.9        |
| Paragon         5.0         6.0         6.3         5.8           Turfstar plus         4.7         7.0         6.0         5.8           Vivd/Chd/Chd/2/Slct1         5.3         6.3         5.7         5.8           95-1         5.3         6.0         6.0         5.8           Majesty         5.3         6.0         5.7         5.7           Divine         5.3         6.0         5.7         5.7           97-1196         4.7         6.3         6.0         5.7         5.7           97-1197         5.3         6.0         5.7         5.7         5.6           97-1150         5.0         6.0         5.7         5.6         97-1150         5.6         97-1150         5.6         97-1150         5.6         97-1150         5.6         97-1150         5.6         97-1150         5.6         97-1142         5.0         6.0         5.7         5.6         97-1142         5.0         6.3         5.3         5.6         97-1142         5.0         6.3         5.3         5.6         97-1360         4.7         6.3         5.7         5.6         LA20-6-PRMC         4.7         6.3         5.7         5.6         LA20-6-P  |                        |            |     |     |            |
| Turfstr plus 47 7,0 6.0 5.8 Vivd/Cthd2/Slct1 5.3 6.3 5.7 5.8 95-1 5.3 6.0 6.0 5.7 5.7 5.8 95-1 5.3 6.0 5.7 5.7 5.8 95-1 5.3 6.0 5.7 5.7 5.7 Divine 5.3 6.0 5.7 5.7 5.7 Divine 5.3 6.0 5.7 5.7 5.7 97-1196 47 6.3 6.0 5.7 5.7 5.6 97-1196 5.0 5.0 6.0 5.7 5.7 5.6 97-1157 5.3 6.0 5.3 5.6 97-1150 5.0 6.0 5.7 5.6 97-1142 5.0 6.3 5.3 5.6 97-1806 47 6.3 5.3 5.6 97-1806 47 6.3 5.3 5.6 97-1806 47 6.3 5.3 5.6 97-1806 47 6.3 5.3 5.6 97-1806 47 6.3 5.7 5.6 5.6 97-3806 47 6.3 5.7 5.0 5.6 1.420-6-PRMC 4.7 6.3 6.0 5.3 5.4 P68.7-21 5.0 6.0 5.3 5.4 P68.7-21 5.3 6.0 5.0 5.4 M59-6-663 4.0 6.3 5.0 5.0 5.3 5.3 97-1143 4.0 6.0 5.3 5.3 5.3 97-1143 4.0 6.0 5.3 5.3 5.3 97-1143 4.0 6.0 5.3 5.3 5.3 97-1144 5.0 6.0 5.0 5.3 5.3 97-1144 5.0 6.0 5.0 5.3 5.3 97-1164 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 97-1109 5.0 5.0 5.3 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3  |                        |            |     |     |            |
| Vivd/Cthd2/Slet1         5.3         6.3         5.7         5.8           95-1         5.3         6.0         6.0         5.8           Majesty         5.3         6.0         5.7         5.7           Divine         5.3         6.0         5.7         5.7           P7-1196         4.7         6.3         6.0         5.7         5.6           97-1197         5.3         6.0         5.3         5.6         9.7         9.7         5.6           97-1157         5.3         6.0         5.3         5.6         9.7         9.7         5.6         9.7         9.7         5.6         9.7         15.7         5.6         9.7         9.6         9.7         5.6         9.7         11.7         5.6         9.7         9.6         9.7         5.6         9.7         11.7         5.6         9.7         9.7         5.6         9.7         5.6         9.7         5.6         9.7         5.6         9.7         5.6         9.7         5.6         9.7         5.6         9.7         5.7         5.6         9.8         4.8         4.8         4.8         4.8         4.8         4.8         4.8         4.8         4.8<   |                        |            |     |     |            |
| 95-1 5.3 6.0 6.0 5.8  Majesty 5.3 6.0 5.7 5.7  Divine 5.3 6.0 5.7 5.7  97-1196 4.7 6.3 6.0 5.7  97-1197 5.3 6.0 5.7  97-1157 5.3 6.0 5.7  97-1159 5.0 6.0 5.3 5.6  97-1150 5.0 6.0 5.3 5.6  97-1142 5.0 6.3 5.3 5.6  97-3806 4.7 6.3 5.7 5.6  LA20-6-PRMC 4.7 6.3 6.0 5.3  Select 1 5.0 6.0 5.3 5.4  Select 1 5.0 6.0 5.3 5.4  Select 1 5.0 6.0 5.3 5.4  M59-6-663 4.0 6.3 6.0 5.0  Catalina 5.0 5.0 5.0  Charger II 4.7 5.7 5.7  First cut 4.7 6.0 5.3 5.3  97-1143 4.0 6.0 5.3 5.3  97-1144 4.0 6.0 5.3  97-1159 4.0 6.3 5.7  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1104 5.0 6.0 5.3  97-1109 5.0 5.3  97-1104 5.0 6.0 5.3  97-1109 5.0 5.0  97 |                        |            |     |     |            |
| Majesty         5.3         6.0         5.7         5.7           Divine         5.3         6.0         5.7         5.7           97-1196         4.7         6.3         6.0         5.7           Citation II         4.3         6.7         5.7         5.6           97-1150         5.0         6.0         5.3         5.6           97-1150         5.0         6.3         5.3         5.6           97-1152         5.0         6.3         5.3         5.6           97-1150         5.0         6.3         5.3         5.6           97-1150         5.0         6.3         5.3         5.6           97-1142         5.0         6.3         5.3         5.6           97-1806         4.7         6.3         5.7         5.6           LA20-6-PRMC         4.7         6.3         6.0         5.5           LP9         5.7         5.7         5.0         5.4           M59-6-663         4.0         6.3         6.0         5.3           M59-6-663         4.0         6.3         6.0         5.3           First cut         4.7         5.7         5.7         5.3 <td></td> <td></td> <td></td> <td></td> <td></td>   |                        |            |     |     |            |
| Divine         5.3         6.0         5.7         5.7           97-1196         4.7         6.3         6.0         5.7           Citation II         4.3         6.7         5.7         5.6           97-1157         5.3         6.0         5.3         5.6           97-1180         5.0         6.0         5.7         5.6           97-1142         5.0         6.3         5.3         5.6           97-3806         4.7         6.3         5.7         5.6           LA20-6-PRMC         4.7         6.3         6.0         5.5           LP 9         5.7         5.7         5.0         5.4           Select 1         5.0         6.0         5.3         5.4           P68-7-21         5.3         6.0         5.3         5.4           M59-6-663         4.0         6.3         6.0         5.3           First cut         4.7         5.0         5.7         5.7         5.3           First cut         4.7         6.0         5.3         5.3         5.3           97-1143         4.0         6.0         5.3         5.3         5.3         5.3         9.3         9.3 </td <td></td> <td></td> <td></td> <td></td> <td></td>   |                        |            |     |     |            |
| 97-1196  |                        |            |     |     |            |
| Citation II         4.3         6.7         5.7         5.6           97-1157         5.3         6.0         5.3         5.6           97-1150         5.0         6.0         5.7         5.6           97-1142         5.0         6.3         5.3         5.6           97-3806         4.7         6.3         5.7         5.6           LA20-6-PRMC         4.7         6.3         6.0         5.5           LP 9         5.7         5.7         5.0         5.4           Select 1         5.0         6.0         5.3         5.4           P68-7-21         5.3         6.0         5.3         5.4           M59-6-63         4.0         6.3         6.0         5.3           Charger II         4.7         5.7         5.7         5.3           First cut         4.7         6.0         5.3         5.3           97-1143         4.0         6.0         5.3         5.3           97-1159         4.0         6.3         5.7         5.3         5.3           97-1104         5.0         6.0         5.0         5.3         5.3           97-1104         5.0         6.  |                        |            |     |     |            |
| 97-1157 5.3 6.0 5.3 5.6 97-1150 5.0 6.0 5.7 5.6 97-1142 5.0 6.3 5.3 5.6 97-3806 4.7 6.3 5.7 5.6 LA20-6-PRMC 4.7 6.3 5.7 5.6 LA20-6-PRMC 4.7 6.3 6.0 5.5 LP9 5.7 5.7 5.0 5.4 Select 1 5.0 6.0 5.3 5.4 P68-7-21 5.3 6.0 5.4 Select 1 5.0 6.0 5.3 5.4 Select 1 5.0 6.0 5.3 5.4 Select 1 5.0 6.0 5.3 5.4 Select 1 5.0 5.0 5.0 5.4 Select 1 5.0 5.0 5.0 5.4 Select 1 5.0 5.0 5.0 5.0 5.4 Select 1 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0   |                        |            |     |     |            |
| 97-1150  |                        |            |     |     |            |
| 97-1142 5.0 6.3 5.3 5.6 97-3806 4.7 6.3 5.7 5.6 L290-6PRMC 4.7 6.3 6.0 5.5 LP 9 5.7 5.7 5.0 5.4 Select 1 5.0 6.0 5.3 5.4 M59-6-663 4.0 6.3 6.0 5.4 M59-6-663 4.0 6.3 6.0 5.4 M59-6-663 4.0 6.3 6.0 5.3 5.4 M59-6-663 4.0 6.3 6.0 5.3 5.3 5.4 M59-6-663 4.0 6.3 6.0 5.0 5.3 5.3 First cut 4.7 5.7 5.7 5.3 5.3 5.3 First cut 4.7 6.0 5.3 5.3 5.3 97-1143 4.0 6.0 6.0 5.3 5.3 5.3 97-1159 4.0 6.3 5.7 5.3 5.3 97-1164 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 97-1104 5.0 6.0 5.0 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3   |                        |            |     |     |            |
| 97-3806  |                        |            |     |     |            |
| LA20-6-PRMC       4.7       6.3       6.0       5.5         LP 9       5.7       5.7       5.0       5.4         Select 1       5.0       6.0       5.3       5.4         P68-7-21       5.3       6.0       5.0       5.4         M59-6-63       4.0       6.3       6.0       5.4         Catalina       5.0       5.0       6.0       5.3         Charger II       4.7       5.7       5.7       5.3         First cut       4.7       6.0       5.3       5.3         Pro-Select       5.0       5.7       5.3       5.3         97-1143       4.0       6.0       6.0       5.3         97-1159       4.0       6.3       5.7       5.3         97-1164       5.0       6.0       5.0       5.3         97-1105       5.0       6.0       5.0       5.3         97-1106       4.7       6.0       5.3       5.3         97-3807       5.3       5.7       5.0       5.3         97-1109       5.0       5.3       5.3       5.2         Oat/wntrply       4.3       6.0       5.5       5.2   |                        |            |     |     |            |
| LP 9 5.7 5.7 5.0 5.4 Select 1 5.0 6.0 5.3 5.4 P68-7-21 5.3 6.0 5.0 5.4 M59-6-663 4.0 6.3 6.0 5.0 5.4 M59-6-663 4.0 6.3 6.0 5.0 5.4 Catalina 5.0 5.0 5.0 6.0 5.3 First cut 4.7 5.7 5.7 5.7 5.3 First cut 4.7 6.0 5.3 5.3 5.3 97-1143 4.0 6.0 6.0 5.3 97-1144 5.0 6.0 5.0 5.0 5.0 5.0 5.0 5.3 97-1104 5.0 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1149 4.7 6.0 5.3 5.3 5.3 97-1149 4.7 6.0 5.3 5.3 5.3 97-1149 4.7 6.0 5.3 5.3 5.3 5.3 97-1169 5.0 5.0 5.3 5.3 5.3 5.3 97-1169 5.0 5.0 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3  |                        |            |     |     |            |
| Select 1         5.0         6.0         5.3         5.4           P68-7-21         5.3         6.0         5.0         5.4           M59-6-663         4.0         6.3         6.0         5.4           Catalina         5.0         5.0         6.0         5.3           Charger II         4.7         5.7         5.7         5.3           First cut         4.7         6.0         5.3         5.3           Pro-Select         5.0         5.7         5.3         5.3           97-1143         4.0         6.0         6.0         5.3           97-1159         4.0         6.3         5.7         5.3           97-1164         5.0         6.0         5.0         5.3           97-1104         5.0         6.0         5.0         5.3           97-1106         4.7         6.0         5.3         5.3           97-1109         5.0         5.3         5.3         5.2           97-1149         4.7         6.0         5.5         5.2           Cat/watrply         4.3         6.0         5.3         5.2           MF 5         4.3         5.7         5.5         5  |                        |            |     |     |            |
| P68-7-21       5.3       6.0       5.0       5.4         MS9-6-663       4.0       6.3       6.0       5.4         Catalina       5.0       5.0       6.0       5.3         Charger II       4.7       5.7       5.7       5.3         First cut       4.7       6.0       5.3       5.3         Pro-Select       5.0       5.7       5.3       5.3         97-1143       4.0       6.0       6.0       5.3         97-1159       4.0       6.3       5.7       5.3         97-1164       5.0       6.0       5.0       5.3         97-1104       5.0       6.0       5.0       5.3         97-1106       4.7       6.0       5.3       5.3         97-3807       5.3       5.3       5.3       5.3         97-1109       5.0       5.3       5.3       5.3         97-1149       4.7       6.0       5.5       5.2         Cat/wntrply       4.3       6.0       5.5       5.2         Cat/wntrply       4.3       5.7       5.5       5.1         WX5-195 HF       4.7       5.7       5.0       5.1      <  |                        |            |     |     |            |
| M59-6-663       4.0       6.3       6.0       5.4         Catalina       5.0       5.0       6.0       5.3         Charger II       4.7       5.7       5.7       5.3         First cut       4.7       6.0       5.3       5.3         Pro-Select       5.0       5.7       5.3       5.3         97-1143       4.0       6.0       6.0       5.3         97-1159       4.0       6.3       5.7       5.3         97-1164       5.0       6.0       5.0       5.3         97-1104       5.0       6.0       5.0       5.3         97-1106       4.7       6.0       5.3       5.3         97-3807       5.3       5.7       5.0       5.3         97-1109       5.0       5.3       5.3       5.3         97-1149       4.7       6.0       5.5       5.2         Cat/wntrply       4.3       6.0       5.3       5.2         MP 5       4.3       5.7       5.5       5.1         WX5-195 HF       4.7       5.7       5.0       5.1         97-1108       4.0       6.0       4.7       4.9   |                        |            |     |     |            |
| Catalina         5.0         5.0         6.0         5.3           Charger II         4.7         5.7         5.7         5.3           First cut         4.7         6.0         5.3         5.3           Pro-Select         5.0         5.7         5.3         5.3           97-1143         4.0         6.0         6.0         5.3           97-1159         4.0         6.3         5.7         5.3           97-1164         5.0         6.0         5.0         5.3           97-1104         5.0         6.0         5.0         5.3           97-1106         4.7         6.0         5.3         5.3           97-1109         5.3         5.7         5.0         5.3           97-1109         5.0         5.3         5.3         5.2           97-1149         4.7         6.0         5.5         5.2           Cat/wntrply         4.3         6.0         5.3         5.2           MP 5         4.3         5.7         5.5         5.1           WX5-195 HF         4.7         5.7         5.0         5.1           97-1108         4.0         6.0         4.7         4.  |                        |            |     |     |            |
| Charger II 4.7 5.7 5.7 5.3 5.3 First cut 4.7 6.0 5.3 5.3 5.3 Pro-Select 5.0 5.7 5.3 5.3 5.3 97-1143 4.0 6.0 6.0 6.0 5.3 5.3 97-1159 4.0 6.3 5.7 5.3 97-1164 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1106 4.7 6.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 97-1109 5.0 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3 5.3  |                        |            |     |     |            |
| First cut 4.7 6.0 5.3 5.3 5.3 Pro-Select 5.0 5.7 5.3 5.3 5.3 97-1143 4.0 6.0 6.0 5.3 97-1159 4.0 6.3 5.7 5.3 97-1164 5.0 6.0 5.0 5.3 97-1104 5.0 6.0 5.0 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.3 5.2 97-1109 5.0 5.3 5.3 5.2 97-1149 4.7 6.0 5.5 5.2 97-1149 4.7 6.0 5.5 5.2 97-1149 4.7 6.0 5.3 5.3 5.2 97-1109 5.0 5.3 5.3 5.2 97-1109 5.0 5.3 5.3 5.2 97-1109 5.0 5.3 5.3 5.2 97-1149 5.0 5.3 5.3 5.2 97-1149 5.0 5.3 5.3 5.2 97-1149 5.0 5.3 5.3 5.2 97-1149 5.0 5.3 5.3 5.2 97-1149 5.0 5.3 5.3 5.2 97-1149 5.0 5.3 5.3 5.2 97-1149 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.7 5.0 5.1 97-1108 5.0 5.7 5.0 5.1 97-1108 5.0 5.7 5.0 5.1 97-1108 5.0 5.7 5.0 5.1 97-1108 5.7 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.1 97-1108 5.0 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2   |                        |            |     |     |            |
| Pro-Select         5.0         5.7         5.3         5.3           97-1143         4.0         6.0         6.0         5.3           97-1159         4.0         6.3         5.7         5.3           97-1164         5.0         6.0         5.0         5.3           97-1104         5.0         6.0         5.0         5.3           97-1106         4.7         6.0         5.3         5.3           97-3807         5.3         5.7         5.0         5.3           97-1109         5.0         5.3         5.3         5.2           97-1149         4.7         6.0         5.5         5.2           Cat/wntrply         4.3         6.0         5.3         5.2           MP 5         4.3         5.7         5.5         5.1           WX5-195 HF         4.7         5.7         5.0         5.1           97-1108         4.0         6.0         4.7         4.9           EP 37         4.0         5.7         4.3         4.7           Laredo         4.0         5.3         4.7         4.7           Pick hybred YNC         3.3         5.0         4.0         4.1  |                        |            |     |     |            |
| 97-1143  |                        |            |     |     |            |
| 97-1159  |                        |            |     |     |            |
| 97-1164 5.0 6.0 5.0 5.3 5.3 97-1104 5.0 6.0 5.0 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-1109 5.0 5.3 5.3 5.2 97-1149 4.7 6.0 5.5 5.2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2  |                        |            |     |     |            |
| 97-1104 5.0 6.0 5.0 5.3 5.3 97-1106 4.7 6.0 5.3 5.3 5.3 97-3807 5.3 5.7 5.0 5.3 97-1109 5.0 5.3 5.3 5.2 97-1149 4.7 6.0 5.5 5.2 Cat/wntrply 4.3 6.0 5.3 5.2 MP 5 4.3 5.7 5.0 5.1 WX5-195 HF 4.7 5.7 5.0 5.1 WX5-195 HF 4.7 6.0 6.0 4.7 4.9 EP 37 4.0 5.7 4.3 4.7 Laredo 4.0 5.3 4.7 4.7 Pick hybred YNC 3.3 5.0 4.0 4.1 EPH 3.7 5.0 3.7 4.1 Vision quest 2.7 4.0 4.0 4.0 3.6 TPD 2.7 4.0 4.0 2.7 3.1 Barverdi 2.3 4.0 2.7 3.0 Interim 2.3 3.0 2.0 2.4 Gulf 2.0 3.0 5.8 5.2 TEST MEAN³ 4.6 5.8 5.2 5.2  |                        |            |     |     |            |
| 97-1106  |                        |            |     |     |            |
| 97-3807 5.3 5.7 5.0 5.3 5.2 97-1109 5.0 5.3 5.2 97-1149 4.7 6.0 5.5 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2 5.2  |                        |            |     |     |            |
| 97-1109 5.0 5.3 5.3 5.2 97-1149 4.7 6.0 5.5 5.2 Cat/wntrply 4.3 6.0 5.3 5.2 MP 5 4.3 5.7 5.5 5.1 WX5-195 HF 4.7 5.7 5.0 5.1 97-1108 4.0 6.0 4.7 4.9 EP 37 4.0 5.7 4.3 4.7 Laredo 4.0 5.3 4.7 Pick hybred YNC 3.3 5.0 4.0 4.1 EPH 3.7 5.0 3.7 4.1 Vision quest 2.7 4.0 4.0 4.0 3.6 TPD 2.7 4.0 2.7 3.1 Barverdi 2.3 4.0 2.7 3.0 Interim 2.3 3.0 2.0 2.4 Gulf 2.0 3.0 5.8 5.2 5.2  |                        |            |     |     |            |
| 97-1149  |                        |            |     |     |            |
| Cat/wntrply       4.3       6.0       5.3       5.2         MP 5       4.3       5.7       5.5       5.1         WX5-195 HF       4.7       5.7       5.0       5.1         97-1108       4.0       6.0       4.7       4.9         EP 37       4.0       5.7       4.3       4.7         Laredo       4.0       5.3       4.7       4.7         Pick hybred YNC       3.3       5.0       4.0       4.1         EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3         TEST MEAN <sup>3</sup> 4.6       5.8       5.2       5.2   |                        |            |     |     |            |
| MP 5     4.3     5.7     5.5     5.1       WX5-195 HF     4.7     5.7     5.0     5.1       97-1108     4.0     6.0     4.7     4.9       EP 37     4.0     5.7     4.3     4.7       Laredo     4.0     5.3     4.7     4.7       Pick hybred YNC     3.3     5.0     4.0     4.1       EPH     3.7     5.0     3.7     4.1       Vision quest     2.7     4.0     4.0     3.6       TPD     2.7     4.0     2.7     3.1       Barverdi     2.3     4.0     2.7     3.0       Interim     2.3     3.0     2.0     2.4       Gulf     2.0     3.0     2.0     2.3       TEST MEAN <sup>3</sup> 4.6     5.8     5.2     5.2   |                        |            |     |     |            |
| WX5-195 HF       4.7       5.7       5.0       5.1         97-1108       4.0       6.0       4.7       4.9         EP 37       4.0       5.7       4.3       4.7         Laredo       4.0       5.3       4.7       4.7         Pick hybred YNC       3.3       5.0       4.0       4.1         EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3         TEST MEAN <sup>3</sup> 4.6       5.8       5.2       5.2  |                        |            |     |     |            |
| 97-1108       4.0       6.0       4.7       4.9         EP 37       4.0       5.7       4.3       4.7         Laredo       4.0       5.3       4.7       4.7         Pick hybred YNC       3.3       5.0       4.0       4.1         EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3  |                        |            |     |     |            |
| EP 37       4.0       5.7       4.3       4.7         Laredo       4.0       5.3       4.7       4.7         Pick hybred YNC       3.3       5.0       4.0       4.1         EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3         TEST MEAN <sup>3</sup> 4.6       5.8       5.2       5.2   |                        |            |     |     |            |
| Laredo       4.0       5.3       4.7       4.7         Pick hybred YNC       3.3       5.0       4.0       4.1         EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3         TEST MEAN³       4.6       5.8       5.2       5.2   |                        |            |     |     |            |
| Pick hybred YNC       3.3       5.0       4.0       4.1         EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3         TEST MEAN³       4.6       5.8       5.2       5.2  |                        |            |     |     |            |
| EPH       3.7       5.0       3.7       4.1         Vision quest       2.7       4.0       4.0       3.6         TPD       2.7       4.0       2.7       3.1         Barverdi       2.3       4.0       2.7       3.0         Interim       2.3       3.0       2.0       2.4         Gulf       2.0       3.0       2.0       2.3         TEST MEAN³       4.6       5.8       5.2       5.2  |                        |            |     |     |            |
| Vision quest     2.7     4.0     4.0     3.6       TPD     2.7     4.0     2.7     3.1       Barverdi     2.3     4.0     2.7     3.0       Interim     2.3     3.0     2.0     2.4       Gulf     2.0     3.0     2.0     2.3       TEST MEAN³     4.6     5.8     5.2     5.2  |                        |            |     |     |            |
| TPD     2.7     4.0     2.7     3.1       Barverdi     2.3     4.0     2.7     3.0       Interim     2.3     3.0     2.0     2.4       Gulf     2.0     3.0     2.0     2.3       TEST MEAN³     4.6     5.8     5.2     5.2   |                        |            |     |     |            |
| Barverdi     2.3     4.0     2.7     3.0       Interim     2.3     3.0     2.0     2.4       Gulf     2.0     3.0     2.0     2.3       TEST MEAN³     4.6     5.8     5.2     5.2   |                        |            |     |     |            |
| Interim     2.3     3.0     2.0     2.4       Gulf     2.0     3.0     2.0     2.3       TEST MEAN³     4.6     5.8     5.2     5.2  |                        |            |     |     |            |
| Gulf     2.0     3.0     2.0     2.3       TEST MEAN³     4.6     5.8     5.2     5.2  |                        |            |     |     |            |
| TEST MEAN <sup>3</sup> 4.6 5.8 5.2 5.2   |                        |            |     |     |            |
|  | Gulf                   | 2.0        | 3.0 | 2.0 | 2.3        |
| LSD VALUE <sup>4</sup> 1.3 1.3 1.5 1.1   |                        |            |     |     |            |
|  | LSD VALUE <sup>4</sup> | 1.3        | 1.3 | 1.5 | 1.1        |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Quality 1-9. 1 = dead, 9 = best possible.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 6. Mean<sup>1</sup> turfgrass texture<sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona.

| ENTRY                  | <u>DEC</u> | JAN | MAR | WINTER AVG      |
|------------------------|------------|-----|-----|-----------------|
| First cut              | 7.3        | 8.0 | 7.0 | 7.4             |
| Cat/wntrply            | 6.7        | 8.0 | 7.7 | 7.4             |
| Catalina               | 7.0        | 7.7 | 7.0 | 7.2             |
| LP 9                   | 7.0        | 7.7 | 6.7 | 7.1             |
| Leaderboard            | 7.0        | 7.7 | 6.7 | 7.1             |
| Sonoran                | 7.7        | 7.0 | 6.3 | 7.0             |
| Imgn/Lynx/Pgss         | 6.7        | 7.0 | 7.3 | 7.0             |
| 95-1                   | 7.3        | 7.0 | 6.7 | 7.0             |
| MP 5                   | 7.0        | 7.0 | 6.7 | 6.9             |
| Paragon                | 7.0        | 7.0 | 6.7 | 6.9             |
| Turfstar plus          | 6.7        | 7.7 | 6.3 | 6.9             |
| Charger II             | 6.3        | 7.3 | 6.7 | 6.8             |
| WX5-195 HF             | 7.0        | 7.0 | 6.3 | 6.8             |
| Select 1               | 7.0        | 7.3 | 6.0 | 6.8             |
| M59-6-663              | 7.0        | 7.3 | 6.0 | 6.8             |
| 97-1159                | 6.0        | 7.0 | 6.7 | 6.6             |
| Majesty                | 6.3        | 6.7 | 6.7 | 6.6             |
| Laredo                 | 7.0        | 7.0 | 5.7 | 6.6             |
| EP 37                  | 6.7        | 6.7 | 6.0 | 6.4             |
| Premier II             | 6.7        | 6.7 | 6.0 | 6.4             |
| Divine                 |            |     |     |                 |
|                        | 5.7        | 7.0 | 6.3 | 6.3             |
| Pro-Select             | 6.3        | 7.0 | 5.7 | 6.3             |
| Vivd/Cthd2/Slct1       | 6.3        | 6.3 | 6.3 | 6.3             |
| 97-1111<br>P(0.7.21    | 6.7        | 6.0 | 6.3 | 6.3             |
| P68-7-21               | 7.0        | 6.3 | 5.7 | 6.3             |
| LA20-6-PRMC            | 6.7        | 6.0 | 6.3 | 6.3             |
| 97-1157                | 6.3        | 6.0 | 6.3 | 6.2             |
| 97-1104                | 6.3        | 6.0 | 6.3 | 6.2             |
| 97-1197                | 6.3        | 6.3 | 6.0 | 6.2             |
| 97-3808                | 6.5        | 6.3 | 6.0 | 6.2             |
| 97-3806                | 6.5        | 6.0 | 6.3 | 6.2             |
| 97-1150                | 7.0        | 5.3 | 6.0 | 6.1             |
| 97-3807                | 6.0        | 6.3 | 5.7 | 6.1             |
| 97-1107                | 6.0        | 6.0 | 6.0 | 6.0             |
| 97-1106                | 6.7        | 6.0 | 5.3 | 6.0             |
| 97-1149                | 6.0        | 5.7 | 6.3 | 6.0             |
| 97-1196                | 6.0        | 6.3 | 5.7 | 6.0             |
| Citation II            | 6.0        | 6.0 | 6.0 | 5.9             |
| 97-1164                | 6.5        | 5.7 | 5.7 | 5.9             |
| 97-1142                | 6.0        | 6.0 | 5.7 | 5.9             |
| 97-3809                | 6.0        | 5.7 | 6.0 | 5.8             |
| 97-1108                | 6.0        | 5.3 | 5.7 | 5.6             |
| 97-1109                | 5.7        | 5.3 | 5.3 | 5.4             |
| EPH                    | 6.0        | 5.3 | 4.7 | 5.3             |
| 97-1143                | 5.0        | 5.3 | 5.3 | 5.3             |
| Pick hybred YNC        | 5.3        | 5.3 | 4.7 | 5.1             |
| Vision quest           | 5.0        | 4.7 | 3.7 | 4.4             |
| Barverdi               | 4.3        | 5.0 | 3.7 | 4.3             |
| TPD                    | 4.0        | 4.3 | 4.0 | 4.1             |
| Interim                | 3.7        | 4.3 | 3.7 | 3.9             |
| Gulf                   | 3.0        | 4.0 | 3.7 | 3.4             |
|                        | J.U        | T.U | J.J | J. <del>T</del> |
| TEST MEAN <sup>3</sup> | 6.3        | 6.3 | 5.9 | 6.2             |
| LSD VALUE <sup>4</sup> | 1.2        | 1.2 | 1.0 | 0.7             |
|                        |            |     |     |                 |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Texture 1-9. 1 = dead, 9 = best possible.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 7. Mean<sup>1</sup> turfgrass texture<sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona.

| ENTRY                     | <u>APR</u> | MAY        | <u>JUNE</u> | SPRING AVG |
|---------------------------|------------|------------|-------------|------------|
| Cat/wntrply               | 7.3        | 8.3        | 8.7         | 8.1        |
| First cut                 | 7.0        | 8.0        | 7.3         | 7.4        |
| Leaderboard               | 6.7        | 7.7        | 7.3         | 7.2        |
| Turfstar plus             | 7.0        | 7.3        | 7.5         | 7.2        |
| Sonoran                   | 7.0        | 7.0        | 7.3         | 7.1        |
| Charger II                | 7.0        | 7.0        | 7.0         | 7.0        |
| MP 5                      | 7.0        | 7.0        | 7.0         | 7.0        |
| LP 9                      | 7.0        | 7.3        | 6.7         | 7.0        |
| LA20-6-PRMC               | 6.7        | 7.0        | 7.5         | 6.9        |
| Catalina                  | 6.7        | 7.3        | 6.7         | 6.9        |
| 95-1                      | 6.7        | 6.7        | 7.0         | 6.8        |
| P68-7-21                  | 6.7        | 6.7        | 7.0         | 6.8        |
| Premier II                | 6.7        | 6.7        | 7.0         | 6.8        |
| Pro-Select                | 6.7        | 6.7        | 7.0         | 6.7        |
| Majesty                   | 6.3        | 6.7        | 7.0         | 6.7        |
| Divine                    | 6.7        | 6.7        | 6.7         | 6.7        |
| Vivd/Cthd2/Slct1          | 7.0        | 6.3        | 6.7         | 6.7        |
| EP 37                     | 6.3        | 7.0        | 6.3         | 6.6        |
| WX5-195 HF                | 6.3        | 6.7        | 6.7         | 6.6        |
| Select 1                  | 6.7        | 6.3        | 6.7         | 6.6        |
| 97-1111                   | 6.7        | 6.0        | 7.0         | 6.6        |
| Citation II               | 6.3        | 6.7        | 6.7         | 6.6        |
| Paragon                   | 6.7        | 6.3        | 6.7         | 6.6        |
| 97-1107                   | 6.3        | 6.3        | 7.0         | 6.6        |
| M59-6-663                 | 6.3        | 6.3        | 7.0         | 6.6        |
| 97-1104                   | 6.0        | 7.0        | 6.3         | 6.4        |
| 97-3806                   | 6.7        | 6.3        | 6.5         | 6.4        |
|                           | 6.0        | 6.3        | 6.7         | 6.3        |
| Imgn/Lynx/Pgss<br>97-1159 | 6.7        | 6.3        | 6.0         | 6.3        |
| 97-1139<br>97-1149        | 6.3        | 6.3        | 6.5         | 6.3        |
| 97-1149                   | 6.0        | 6.3        | 6.7         | 6.3        |
|                           | 6.3        | 6.0        | 6.7         | 6.3        |
| 97-3809                   |            |            |             |            |
| Laredo                    | 6.3        | 6.0        | 6.3         | 6.2        |
| 97-1150                   | 6.0        | 6.0        | 6.7         | 6.2        |
| 97-1197                   | 5.7        | 6.7        | 6.3         | 6.2        |
| 97-1109                   | 5.7        | 6.3        | 6.3         | 6.1        |
| 97-1157                   | 6.0        | 6.3        | 6.0         | 6.1        |
| 97-1164                   | 6.0        | 6.0        | 6.3         | 6.1        |
| 97-1106                   | 6.0        | 5.7        | 6.7         | 6.1        |
| 97-3807                   | 6.0        | 6.0        | 6.3         | 6.1        |
| 97-3808                   | 5.7        | 6.3        | 6.3         | 6.1        |
| 97-1143                   | 6.3        | 5.7        | 6.0         | 6.0        |
| 97-1108                   | 6.0        | 5.7        | 6.3         | 6.0        |
| 97-1196                   | 5.7        | 6.0        | 5.7         | 5.8        |
| Pick hybred YNC           | 4.7        | 5.3        | 5.0         | 5.0        |
| EPH                       | 4.3        | 5.7        | 4.7         | 4.9        |
| Vision quest              | 3.7        | 4.7        | 5.0         | 4.4        |
| Barverdi                  | 4.0        | 5.0        | 3.7         | 4.2        |
| TPD                       | 4.0        | 4.3        | 3.0         | 3.8        |
| Interim                   | 3.7        | 3.3        | 3.0         | 3.3        |
| Gulf                      | 3.0        | 3.0        | 2.0         | 2.7        |
| TEST MEAN <sup>3</sup>    | 6.1        | 6.3        | 6.3         | 6.2        |
| LSD VALUE <sup>4</sup>    | 0.9        | 6.3<br>1.0 | 1.0         | 0.6        |
| LOD VALUE                 | U.7        | 1.0        | 1.0         | 0.0        |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Texture 1-9. 1 = dead, 9 = best possible.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 8. Mean<sup>1</sup> turfgrass density<sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona.

| <u>ENTRY</u>           | <u>JAN</u> | MAY | <u>JUNE</u> | SPRING AVG |
|------------------------|------------|-----|-------------|------------|
| Cat/wntrply            | 8.0        | 7.7 | 7.7         | 7.7        |
| Leaderboard            | 7.0        | 7.3 | 6.7         | 7.0        |
| First cut              | 7.0        | 7.7 | 6.0         | 6.8        |
| Turfstar plus          | 6.7        | 7.3 | 6.5         | 6.8        |
| Premier II             | 6.7        | 6.7 | 7.0         | 6.7        |
| Catalina               | 6.0        | 6.7 | 6.3         | 6.5        |
| LP 9                   | 6.3        | 7.0 | 6.0         | 6.5        |
| 95-1                   | 6.7        | 6.3 | 6.7         | 6.5        |
| 97-1111                | 5.7        | 6.7 | 6.3         | 6.5        |
| 97-1150                | 4.7        | 6.3 | 6.7         | 6.5        |
| Sonoran                | 6.7        | 6.7 | 6.0         | 6.3        |
| Majesty                | 6.7        | 6.3 | 6.3         | 6.3        |
| Divine                 | 6.3        | 6.7 | 6.0         | 6.3        |
| Paragon                | 5.7        | 6.3 | 6.3         | 6.3        |
| Select 1               | 7.0        | 7.0 | 5.7         | 6.3        |
| 97-1109                | 4.7        | 6.3 | 6.3         | 6.3        |
| P68-7-21               | 6.3        | 6.7 | 6.0         | 6.3        |
| M59-6-663              | 7.7        | 6.3 | 6.3         | 6.3        |
| LA20-6-PRMC            | 6.0        | 6.7 | 6.0         | 6.3        |
| Charger II             | 7.3        | 6.3 | 6.0         | 6.2        |
| MP 5                   | 6.3        | 6.7 | 5.0         | 6.2        |
| Vivd/Cthd2/Slct1       | 6.7        | 6.3 | 6.0         | 6.2        |
| 97-1107                | 6.0        | 6.0 | 6.3         | 6.2        |
| 97-1143                | 5.0        | 6.0 | 6.3         | 6.2        |
| 97-1159                | 6.0        | 6.0 | 6.3         | 6.2        |
| 97-1142                | 5.3        | 6.3 | 6.0         | 6.2        |
| 97-1197                | 5.0        | 6.3 | 6.0         | 6.2        |
| Imgn/Lynx/Pgss         | 7.0        | 6.3 | 5.7         | 6.0        |
| WX5-195 HF             | 6.3        | 6.0 | 6.0         | 6.0        |
| 97-1104                | 5.3        | 6.3 | 5.7         | 6.0        |
| 97-3809                | 5.0        | 6.0 | 6.0         | 6.0        |
| 97-1196                | 5.3        | 6.0 | 6.0         | 6.0        |
| Citation II            | 6.0        | 6.0 | 5.7         | 5.8        |
| Laredo                 | 7.3        | 6.0 | 5.7         | 5.8        |
| 97-1157                | 6.0        | 6.3 | 5.3         | 5.8        |
| 97-1149                | 6.0        | 6.0 | 6.0         | 5.8        |
| 97-3807                | 5.0        | 6.0 | 5.7         | 5.8        |
| 97-3808                | 5.0        | 6.0 | 5.7         | 5.8        |
| EP 37                  | 5.7        | 6.3 | 5.0         | 5.7        |
| Pro-Select             | 6.0        | 6.0 | 5.3         | 5.7        |
| 97-1106                | 5.7        | 5.7 | 5.3         | 5.5        |
| 97-3806                | 5.7        | 6.0 | 5.0         | 5.5        |
| 97-1164                | 5.0        | 5.7 | 5.0         | 5.3        |
| 97-1108                | 5.7        | 5.0 | 5.3         | 5.2        |
| Pick hybred YNC        | 6.3        | 5.0 | 4.3         | 4.7        |
| EPH                    | 5.7        | 4.7 | 4.3         | 4.5        |
| Vision quest           | 5.7        | 4.3 | 4.3         | 4.3        |
| Barverdi               | 5.3        | 4.0 | 3.7         | 3.8        |
| TPD                    | 4.3        | 3.7 | 3.0         | 3.3        |
| Interim                | 4.3        | 3.0 | 3.0         | 3.0        |
| Gulf                   | 4.7        | 2.3 | 2.0         | 2.2        |
| TEST MEAN <sup>3</sup> | 6.0        | 6.0 | 5.6         | 5.8        |
| LSD VALUE <sup>4</sup> | 1.5        | 1.0 | 1.2         | 0.9        |
| LUD TILLUL             |            |     |             | V-2        |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Density 1-9. 1 = dead, 9 = best possible.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 9. Mean<sup>1</sup> turfgrass uniformity<sup>2</sup> scores overseed fairway entries 1997-1998. University of Arizona.

| <u>ENTRY</u>           | MAR | <u>APR</u> | MAY | <u>JUNE</u> | SPRING AVG |
|------------------------|-----|------------|-----|-------------|------------|
| 97-3809                | 5.0 | 6.0        | 6.0 | 5.7         | 5.9        |
| 97-3807                | 5.3 | 6.0        | 5.7 | 5.3         | 5.7        |
| 97-1142                | 5.0 | 5.3        | 5.7 | 5.7         | 5.6        |
| Premier II             | 5.0 | 5.7        | 5.3 | 5.5         | 5.5        |
| Select 1               | 5.3 | 5.3        | 5.7 | 5.3         | 5.4        |
| 97-1157                | 6.0 | 5.7        | 5.3 | 5.3         | 5.4        |
| Paragon                | 6.3 | 5.0        | 5.3 | 6.0         | 5.4        |
| 97-1106                | 5.7 | 5.7        | 5.3 | 5.3         | 5.4        |
| 97-1197                | 5.3 | 5.0        | 5.3 | 6.0         | 5.4        |
| Citation II            | 5.7 | 5.3        | 5.7 | 5.0         | 5.3        |
| Vivd/Cthd2/Slct1       | 5.3 | 5.7        | 5.0 | 5.3         | 5.3        |
| 97-1143                | 4.7 | 4.7        | 5.7 | 5.7         | 5.3        |
| 97-1164                | 4.7 | 6.0        | 5.3 | 4.7         | 5.3        |
| 97-3808                | 5.7 | 5.3        | 5.3 | 5.3         | 5.3        |
| 97-3806                | 4.7 | 5.3        | 5.0 | 5.5         | 5.3        |
| 97-1108                | 4.7 | 5.7        | 5.3 | 4.7         | 5.2        |
| 97-1149                | 4.3 | 5.3        | 4.7 | 6.0         | 5.2        |
| 97-1196                | 5.0 | 4.7        | 5.3 | 5.7         | 5.2        |
| First cut              | 5.7 | 5.3        | 5.3 | 5.0         | 5.2        |
| MP 5                   | 5.0 | 5.7        | 5.0 | 4.5         | 5.2        |
| 97-1107                | 5.3 | 5.0        | 5.3 | 5.0         | 5.1        |
| 97-1109                | 5.7 | 5.3        | 4.7 | 5.3         | 5.1        |
| 97-1111                | 5.7 | 5.3        | 5.0 | 5.0         | 5.1        |
| 95-1                   | 5.3 | 4.3        | 5.3 | 5.7         | 5.1        |
| M59-6-663              | 6.0 | 4.7        | 5.0 | 5.7         | 5.1        |
| Cat/wntrply            | 7.0 | 4.3        | 4.7 | 6.0         | 5.0        |
| Sonoran                | 6.0 | 5.3        | 5.0 | 4.7         | 5.0        |
| Turfstar plus          | 6.0 | 4.7        | 5.3 | 5.0         | 5.0        |
| 97-1159                | 5.0 | 4.3        | 5.3 | 5.3         | 5.0        |
| 97-1104                | 6.0 | 4.7        | 5.7 | 4.7         | 5.0        |
| 97-1150                | 5.3 | 4.7        | 5.0 | 5.0         | 5.0        |
| Majesty                | 6.3 | 4.7        | 4.7 | 5.3         | 4.9        |
| Pro-Select             | 5.0 | 4.7        | 5.0 | 5.0         | 4.9        |
| LA20-6-PRMC            | 5.3 | 4.7        | 4.7 | 5.5         | 4.8        |
| Catalina               | 6.3 | 4.7        | 4.7 | 5.0         | 4.8        |
| P68-7-21               | 6.0 | 5.3        | 4.3 | 4.7         | 4.8        |
| Divine                 | 5.3 | 4.7        | 4.3 | 4.7         | 4.6        |
| EP 37                  | 5.3 | 4.3        | 4.7 | 4.3         | 4.4        |
| Leaderboard            | 6.3 | 4.0        | 4.3 | 5.0         | 4.4        |
| Charger II             | 5.7 | 4.7        | 4.0 | 4.3         | 4.3        |
| Imgn/Lynx/Pgss         | 6.3 | 4.0        | 4.7 | 4.3         | 4.3        |
| WX5-195 HF             | 6.0 | 4.3        | 4.3 | 4.3         | 4.3        |
| LP 9                   | 5.3 | 4.3        | 4.0 | 4.3         | 4.2        |
| Pick hybred YNC        | 4.3 | 4.3        | 3.7 | 4.3         | 4.1        |
| Laredo                 | 5.7 | 4.0        | 4.0 | 4.0         | 4.0        |
| EPH                    | 4.0 | 3.7        | 3.7 | 3.7         | 3.7        |
| TPD                    | 3.3 | 3.3        | 3.0 | 3.7         | 3.3        |
| Vision quest           | 4.0 | 3.0        | 3.3 | 3.3         | 3.2        |
| Barverdi               | 4.0 | 3.3        | 3.3 | 3.0         | 3.2        |
| Interim                | 3.7 | 2.7        | 2.7 | 2.0         | 2.4        |
| Gulf                   | 3.7 | 2.7        | 2.0 | 2.0         | 2.2        |
| TEST MEAN <sup>3</sup> | 5.2 | 4.9        | 10  | 4.0         | 4.0        |
|                        | 5.3 | 4.8        | 4.8 | 4.8         | 4.8        |
| LSD VALUE <sup>4</sup> | 1.6 | 1.1        | 1.1 | 1.2         | 0.8        |

<sup>&</sup>lt;sup>1</sup>Values are the mean of three replications.

<sup>2</sup>Uniformity scores 1-9. 1 = dead, 9 = best.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

Table 10. Yearly mean<sup>1</sup> color, quality, density and texture scores<sup>2</sup> 1997-1998 overseed trials. University of Arizona.

| 97-1143 7.6 ImgnI ynx/Pgss 6.3 Cat/wntrply 7.8 Cat/wntrply 7.8 97-1197 7.3 Sonoran 6.3 Leaderboard 7.0 First cut 7.4 97-1197 7.3 Sonoran 6.3 Leaderboard 7.0 First cut 7.4 97-1190 7.2 Leaderboard 6.2 First cut 6.9 Catalina 7.1 97-1190 7.2 Leaderboard 6.2 First cut 6.9 Catalina 7.1 97-1190 7.2 Leaderboard 6.2 First cut 6.9 Catalina 7.1 97-1190 7.1 Catalina 6.1 Turfstar plus 6.8 Sonoran 7.1 97-1190 7.1 Catalina 6.1 Turfstar plus 6.8 Sonoran 7.1 97-1190 7.1 Premier II 6.1 Select 1 6.7 MP 5 6.9 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 Charger II 6.9 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 95-1 6.9 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 95-1 6.9 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 95-1 6.9 97-1196 7.0 Cat/wntrply 6.0 Majesty 6.5 ImgnLynx/Pgss 6.7 97-1196 6.8 Majesty 6.9 197-1107 6.0 Majesty 6.5 ImgnLynx/Pgss 6.7 97-1196 6.8 95-1 5.9 LP 9 6.4 Select 1 6.7 97-1196 6.8 95-1 5.9 LP 9 6.4 Select 1 6.7 97-1196 6.8 95-1 5.9 LP 9 6.4 Select 1 6.7 97-1196 6.8 95-1 5.9 LP 9 6.4 Select 1 6.7 97-1196 6.7 Vivid/Cth42/Stc1 5.8 Divine 6.3 LA206-PRMC 6.6 97-1107 6.7 Vivid/Cth42/Stc1 5.8 Divine 6.3 LA206-PRMC 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3806 6.5 Charger II 5.8 WX5-1951HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 MX5-1951HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 NAS-1951HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 NAS-1951HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 NAS-1951HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 Pr-11107 6.1 97-11190 6.5 Prangon 5.9 Pr-1104 6.5 97-1104 5.6 97-1104 5.6 97-1104 5.6 97-1104 5.6 97-1104 5.6 97-1104 5.6 97-1104 5.6 97-1104 5.7 97-1105 6.5 Prangon 5.8 Prangon 5.8 Prangon 6.0 97-1107 6.3 Catalina 5.7 97-1106 5.6 97-1107 6.1 Divine 6.5 Prangon 5.8 Prangon 5.8 Prangon 5.9 Laredo 6.4 LPP 9.9 97-1104 5.6 97-1104 5.7 97-1150 6.5 Prangon 5.9 Prangon 5.9 Prangon 5.9 Prangon 5.9 Prangon 5.9 Prangol 5.9 Prangol 6.0 97-1104 5.7 97-1150 6.5 Prangol 6.0 97-1104 5.7 97-1150 6.5 Prangol 6.1 Prangol 5.9 Prangol 6.1 Prangol 5.9 Prangol 6.1 Prangol 5.9 Prangol 6.1 Prangol 5.9 Prangol 6.1 Prang | <u>ENTRY</u>           | COLOR | <u>ENTRY</u>     | QUALITY | <u>ENTRY</u>    | <u>DENSITY</u> | <u>ENTRY</u>     | <u>TEXTURE</u> |
|--|------------------------|-------|------------------|---------|-----------------|----------------|------------------|----------------|
| 97-1197 7.3 Sonoran 6.3 Leaderboard 7.0 First cut 7.4 97-1199 7.2 Leaderboard 6.2 First cut 6.9 Catalina 7.2 97-1199 7.2 Leaderboard 6.2 First cut 6.9 Catalina 7.1 97-1159 7.1 Catalina 6.1 Turfstar plus 7.1 97-1159 7.1 Catalina 6.1 Turfstar plus 7.1 97-1199 7.1 Premier II 6.1 Select 1 6.7 MP 5 6.9 97-1196 7.0 Catwint II 6.1 Select 1 6.7 MP 5 6.9 97-1196 7.0 Catwint II 6.1 Select 1 6.7 MP 5 6.9 97-1196 7.0 Catwint II 6.1 Select 1 6.7 MP 5 6.9 97-1196 7.0 Catwint II 6.1 Select 1 6.7 MP 5 6.9 97-13808 6.9 1P 90 6.0 Sonoran 6.5 Paragon 6.7 97-1108 6.8 Majesty 5.9 Impof ynx/Pgss 6.5 WX5-195 III 6.9 97-1108 6.8 Select 1 6.7 WX5-195 III 6.9 97-1108 6.8 Select 1 6.7 WX5-195 III 6.7 97-1117 6.7 VAGChd2/Slct 1 5.8 Divine 6.3 Select 1 6.7 97-1116 6.6 Select 1 5.8 Pown II 6.4 My5-6-66 97-1104 6.5 Select 1 5.8 Pown II 6.4 My5-6-66 97-1807 6.5 VAX-195 III 6.6 Select 1 5.8 Pown II 6.6 Select 1 5.8 Pown II 6.0 Select 1 6.7 97-1807 6.5 Select 1 5.8 Pown II 6.0 Select 1 6.7 97-1807 6.5 Select 1 5.8 Pown II 6.0 Select 1 6.7 97-1807 6.5 Select 1 5.8 Pown II 6.0 Select 1 6.7 97-1807 6.5 Select 1 5.8 Pown II 6.0 Select 1 6.6 Select 1 5.8 Pown II 6.0  | 97-1143                | 7.6   | Imgn/Lynx/Pgss   | 6.3     | Cat/wntrply     | 7.8            | Cat/wntrply      | 7.8            |
| 97-1142 7.3 97-1111 6.2 M59-6-663 7.0 Leaderboard 7.2 97-1150 7.2 M59-6-663 6.1 Charger II 6.8 Turfstar plus 7.1 97-1150 7.2 M59-6-663 6.1 Charger II 6.8 Turfstar plus 7.1 97-1111 7.1 First cut 6.1 Premier II 6.7 LP 9 7.1 97-1111 7.1 First cut 6.1 Premier II 6.7 LP 9 7.1 97-1390 7.1 Premier II 6.1 Select 1 6.7 MP 5 6.9 M59-6-663 7.1 Turfstar plus 6.1 Laredo 6.6 Charger II 6.9 97-196 7.0 Cal/swithply 6.0 95-1 6.6 95-1 6.6 95-1 97-196 7.0 Cal/swithply 6.0 95-1 6.6 95-1 Mp 5 6.9 97-1106 6.9 97-1107 6.0 Majesty 6.5 Imgn/Lynx/Pgss 6.7 Paragon 6.7 97-1106 6.8 95-1 6.8 Majesty 9.9 ILP 9 6.4 Select 1 6.7 97-1106 6.8 95-1 6.7 97-1106 6.8 95-1 6.7 97-1107 6.7 WxS-195 HF 5.8 Vivd/Cthd2/Slct1 6.4 M59-6-663 6.7 97-1107 6.7 Vivd/Cthd2/Slct1 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3806 6.5 Charger II 5.8 WXS-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 6.3 LA20-6-PRMC 6.6 97-3806 6.5 Charger II 5.8 WXS-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 6.3 Premier II 6.6 97-3806 6.5 Charger II 5.8 WXS-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 6.3 Premier II 6.6 97-3806 6.5 Charger II 5.8 WXS-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 6.5 Pramagon 5.8 97-1107 6.1 Divine 6.5 Pramagon 5.8 97-1107 6.1 Divine 6.5 Pramagon 5.8 97-1107 6.1 Divine 6.5 Pramagon 5.9 LA20-6-PRMC 6.2 Pro-Select 6.5 Imgn/Lynx/Pgss 6.1 97-1197 5.8 97-1110 6.1 97-1159 6.5 Pramagon 5.9 Pramagon 5.9 Pramagon 5.9 Pramagon 5.9 Pramagon 5.9 Pramagon 5.9 Pramagon 6.0 97-1111 6.4 Pramagon 5.9 Pramagon 6.0 97-1111 6.4 Pramagon 5.7 97-1104 5.6 97-1149 5.9 97-1157 6.2 Pramagon 6.0 97-1110 6.3 Pramagon 6.0 97-1111 6.4 Pramagon 6.5 Pramagon 6.0 97-1111 6.4 Pramagon 6.5 Pramagon 6.0 97-1110 6.5 Pramagon 6.0 97-1111 6.4 Pramagon 6.5 Pramagon 6.0 97-1111 6.4 Pramagon 6.5 Pramagon 6.0 Pramagon 6.0 97-1111 6.4 Pramagon 6.5 Pramagon 6.0 Pramagon 6.0 97-1110 6.5 Pramagon 6.0 97-1110 6.5 Pramagon 6.0 97-1111 6.1 Pramagon 6.5 Pramagon  |                        |       |                  |         |                 |                |                  |                |
| 97-1199 7.2 Leaderboard 6.2 First cut 6.9 Catalina 7.1 97-1159 7.1 Catalina 6.1 Turfstar plus 7.1 97-1159 7.1 Catalina 6.1 Turfstar plus 6.8 Sonoran 7.1 97-1159 7.1 Premier II 6.1 Select 1 6.7 MP 5 6.9 97-1117 1 7.1 First cut 6.1 Select 1 6.7 MP 5 6.9 97-1196 7.0 Cat/smtrply 6.0 Select 1 6.7 MP 5 6.9 97-1196 7.0 Cat/smtrply 6.0 Select 1 6.7 MP 5 6.9 97-1196 7.0 Cat/smtrply 6.0 Select 1 6.6 95-1 6.6 95-1 6.6 97-1196 7.0 Cat/smtrply 6.0 Select 1 6.7 Paragno 6.7 Paragno 6.7 Paragno 6.9 U.9 97-1107 6.0 Majesty 6.5 Paragno 6.7 Paragno 6.7 Paragno 6.8 Majesty 5.9 Imgn/Lynx/Pgss 6.5 Imgn/Lynx/Pgss 6.7 97-1106 6.8 93-1 5.9 Imgn/Lynx/Pgss 6.5 WXS-1951 F 6.7 97-1106 6.8 93-1 5.8 Viva/Chd2/Slet1 6.4 M59-6-640 M25-6-640 M25-1951 F 6.7 97-1107 6.7 Vivd/Chd2/Slet1 5.8 Divine 6.3 Majesty 6.5 Majesty 6.6 Paragno 6.7 97-1104 6.6 Select 1 5.8 P68-7-21 6.3 Majesty 6.6 97-3808 5.8 Catalina 6.3 Premier II 6.6 Majesty 6.3 Divine 5.8 MY 5-1951 F 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 MY 5-1951 F 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 Paragno 5.9 LA20-6-PRMC 5.6 Paragno 5.9 Paragno 5.8 97-1107 6.1 Divine 6.5 Paragno 5.9 LA20-6-PRMC 6.5 Paragno 5.9 Paragno 5.6 Paragno 5.6 Paragno 5.6 Paragno 5.6 Paragno 5.7 Paragno 5.8 Paragno 5.7 Paragno 5.8 Paragno 5.7 Paragno 5.7 Paragno 5.8 Paragno 5.7 Paragno 5.8 Paragno 5.7 Paragno 5.7 Paragno 5.8 Paragno 5.7 Paragno 5.7 Paragno 5.8 Paragno 5.7 Paragno 5.7 Paragno 6.7 Paragno 6.0 Paragno 6.0 Paragno 6.0 Paragno 6.0 Paragno 6.3 Paragno 6.3 Paragno 6.5 Paragn |                        |       |                  |         |                 |                |                  |                |
| 97-1150 7.2 M59-6-663 6.1 Charger II 6.8 Sonoran 7.1 97-1111 7.1 First cut 6.1 Premier II 6.7 LP 9 7.1 97-1111 7.1 First cut 6.1 Premier II 6.7 MP 5 6.9 77-3809 7.1 Turfstar plus 6.1 Select 1 6.7 MP 5 6.9 77-1106 7.0 Catvmtrply 6.0 Sonoran 6.5 Paragon 6.7 97-1108 6.9 JP 9 6.0 Sonoran 6.5 Paragon 6.7 97-1108 6.9 JP 9 6.0 Majesty 5.9 Imgnl.ynx/Pgss 6.7 97-1106 6.8 Sp.1 5.9 IP 9 6.4 Select I 6.7 97-1107 6.7 Vivd/Cthd2/Slet1 5.8 Divine 6.3 LA20-6-663 6.7 97-1108 6.5 Paragon 6.7 97-1109 6.5 Select I 5.8 Divine 6.3 LA20-6-663 6.7 97-1100 6.5 Paragon 6.6 Select I 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3806 6.5 Charger II 5.8 MP 5 6.3 Pos-7-21 6.6 97-3806 6.5 Charger II 5.8 WX5-195 IF 6.2 Pro-Select 6.5 97-1149 6.3 Paragon 5.8 97-1159 6.1 Divine 6.5 97-1159 5.8 Paragon 6.9 Parago |                        |       |                  |         |                 |                |                  |                |
| 97-1159 7.1 Catalina 6.1 Turfstar plus 6.8 Sonoran 7.1 97-3809 7.1 First cut 6.1 Premier II 6.7 LP 9 7.1 97-3809 7.1 Premier II 6.1 Select 1 6.7 MP.5 6.9 MP.5 6.9 97-1108 6.9 1.P 9 6.0 Sonoran 6.5 Paragon 6.7 97-1108 6.9 1.P 9 6.0 Sonoran 6.5 Paragon 6.7 97-1108 6.9 1.P 9 6.0 Sonoran 6.5 Paragon 6.7 97-1108 6.8 Majesty 5.9 Imgn/Lynx/Pgss 6.5 Imgn/Lynx/Pgss 6.7 97-1106 6.8 Molect 1 5.9 LP 9 6.0 Sonoran 6.5 Paragon 6.7 97-1106 6.8 Molect 1 5.8 Vivid/Cth/dz/Stct 1 6.4 M59-6-663 6.7 97-1157 6.7 WX5-195 IIF 5.8 Vivid/Cth/dz/Stct 1 6.4 M59-6-663 6.7 97-1164 6.6 Select 1 5.8 Pos-7-21 6.3 Majesty 6.6 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3800 6.5 97-3808 5.8 WX5-195 IIF 6.7 97-3800 6.5 97-3808 5.8 WX5-195 IIF 6.6 Majesty 6.6 Majesty 6.5 97-3800 6.5 97-3800 5.8 WX5-195 IIF 6.6 Majesty 6.6 Majesty 6.5 97-3800 6.5 97-3800 5.8 WX5-195 IIF 6.6 Majesty 6.5 Majesty 6.5 97-3800 6.5 97-3800 6.5 97-3800 6.5 97-3800 6.5 Paragon 5.8 WX5-195 IIF 6.6 Pro-Select 6.5 Majesty 6.3 Paragon 5.8 WX5-195 IIF 6.5 Pro-Select 6.5 Majesty 6.3 Paragon 5.8 WX5-195 IIF 6.5 Pro-Select 6.5 Majesty 6.5 Paragon 5.9 L20-6-PRMC 6.2 EP 37 6.5 Paragon 5.9 L20-6-PRMC 6.0 Paragon 6.0 97-3110 6.1 Vivid/Cth/2/Stct 1 6.5 Imgn/Lynx/Pgss 6.1 Pro-Select 5.8 97-3110 6.1 Vivid/Cth/2/Stct 1 6.5 Imgn/Lynx/Pgss 6.1 Pro-Select 5.8 97-3110 6.1 Vivid/Cth/2/Stct 6.5 Imgn/Lynx/Pgss 6.1 Pro-Select 5.8 97-3300 6.0 97-3300 6.3 Paragon 97-3300 6.3  |                        |       |                  |         |                 |                |                  |                |
| 97-1111 7,1 First cut 6.1 Premier II 6.7 LP 9 7,1 97-13809 7,1 Turfstar plus 6.1 Laredo 6.6 Charger II 6.9 97-1196 7,0 Calvium(phy 6.0 95-1 6.9 97-1108 6.9 LP 9 6.0 Sonoran 6.5 Paragon 6.7 97-13808 6.9 97-1107 6.0 Majesty 5.9 LP 9 6.0 Sonoran 6.5 WS-1951IF 6.7 97-1106 6.8 Majesty 5.9 LP 9 6.0 Sonoran 6.5 WS-1951IF 6.7 97-1106 6.8 95-1 5.9 LP 9 6.4 Select 1 6.7 97-1107 6.7 WXS-195 IIF 5.8 Vivid/Cthd2/Slet1 6.4 M59-6-663 6.7 97-1108 6.5 Paragon 6.7 97-1109 6.7 Vivid/Cthd2/Slet1 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-13807 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3806 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3806 6.5 Ocharger II 5.8 WXS-195 IIF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 Premier II 6.1 Divine 6.5 Prangon 5.8 Paragon 6.0 97-1159 6.5 Paragon 5.8 97-1107 6.1 Divine 6.5 Paragon 5.8 97-1107 6.1 Divine 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Paragon 5.9 UA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Paragon 5.9 Paragon 5.8 97-1107 6.1 Divine 6.5 Paragon 5.9 Paragon 6.0 97-1159 6.5 Paragon 6.0 9 |                        |       |                  |         |                 |                |                  |                |
| 97-3809 7,1 Premier II 6.1 Select 1 6.7 MP.5 6.9 MS59-6-663 7,1 Turfstar plus 6.1 Laredo 6.6 Charger II 6.9 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 95-1 6.9 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 95-1 6.9 97-1808 6.9 1P.9 6.0 Sonoran 6.5 ImgnLynx/Pgss 6.7 mgnLynx/Pgss 6.5 ImgnLynx/Pgss 6.7 mgnLynx/Pgss 6.7 mgnLynx/Pgss 6.5 MXS-195 HF 6.7 97-1157 6.7 WX5-195 HF 5.8 Vivid/CthQz/Slct 1 6.4 M59-6-663 6.7 97-1164 6.6 Select 1 5.8 Post-164 6.6 Select 1 5.8 Post-164 6.6 Select 1 5.8 Post-164 6.5 Select 1 5.8 Post-195 HF 6.7 97-1808 6.5 Majesty 6.6 Majesty 6.6 Majesty 6.6 Majesty 6.6 Majesty 6.6 Majesty 6.5 Majesty 6.6 Majesty 6.6 Majesty 6.6 Majesty 6.6 Majesty 6.5 Majesty 6.6 Majesty 6.5 Majesty 6.6 Majesty 6.5 Post-185 MP.5 MP.5 MS MP.5 MS MP.5 MS MP.5 MS  |                        |       |                  |         |                 |                |                  |                |
| M59-6-663   7.1  |                        |       | Premier II       |         | Select 1        |                |                  |                |
| 97-1196 7.0 Cat/wntrply 6.0 95-1 6.6 95-1 6.9 97-1108 6.9 1P.9 6.0 Sonoran 6.5 Paragon 6.7 97-3808 6.9 97-1107 6.0 Majesty 6.5 Imgn/Lynx/Pgss 6.7 1mgn/Lynx/Pgss 6.5 Imgn/Lynx/Pgss 6.7 97-1166 6.8 Majesty 5.9 Imgn/Lynx/Pgss 6.5 WX5-195 IHF 6.7 97-1157 6.7 WX5-195 IHF 5.8 Vivd/Cthd2/Slct1 6.4 M59-6-663 6.7 97-1157 6.7 WX5-195 IHF 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-1164 6.6 Select 1 5.8 P68-7-21 6.3 Majesty 6.6 97-3806 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3806 6.5 97-1159 5.8 MP.5 6.3 P68-7-21 6.6 97-3806 6.5 97-1159 5.8 WX5-195 IHF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivd/Cthd2/Slct1 6.5 Imgn/Lynx/Pgss 6.1 97-1197 5.8 97-1110 6.1 Divine 6.5 Paragon 5.9 LA20-6-PRMC 6.2 EP 37 6.5 Imgn/Lynx/Pgs 6.1 97-1197 5.8 P7-1119 6.1 Pro-Select 5.8 P7-1159 6.1 Vivd/Cthd2/Slct1 6.5 Imgn/Lynx/Pgs 6.1 97-1197 5.8 P7-1110 6.1 Pr-1159 6.5 Paragon 5.9 P7-1164 6.3 Paragon 5.9 P7-1164 6.4 Paragon 6.0 97-1111 6.1 P7-1159 6.5 Paragon 5.9 P7-1164 6.3 Paragon 6.0 97-1111 6.1 P7-1159 6.5 Paragon 5.9 P7-1164 5.6 Paragon 6.0 97-1111 6.4 P7-1159 6.5 P7-1169 6.3 Paragon 5.9 P7-1164 5.6 P7-1149 5.9 P7-1164 6.3 PARAGON 6.2 PRMC 5.6 PARAGON 6.2 PRMC 6.5 PRMC 6.2 PRMC 6. |                        |       |                  |         | Laredo          |                |                  |                |
| 97-1108 6.9  |                        |       |                  |         | 95-1            |                |                  |                |
| 97-3808 6-9 97-1107 6-0 Majesty 6-5 Imgn/Lynx/Pgss 6-7 95-1 6-8 Majesty 5-9 Imgn/Lynx/Pgss 6-5 WS5-195 HF 6-7 97-1106 6-8 95-1 5.9 I.P.9 6-4 Select 1 6-7 97-1107 6-7 WS5-195 HF 5-8 Vivd/Cthd2/Slct1 6-4 M59-6-663 6-7 97-1107 6-7 Vivd/Cthd2/Slct1 5-8 Divine 6-3 La20-6-PRMC 6-6 97-1104 6-5 97-3808 5-8 Catalina 6-3 Premier II 6-6 97-3807 6-5 97-1159 5-8 WS5-195 HF 6-2 Pro-Select 6-5 Majesty 6-6 97-3806 6-5 Charger II 5-8 WS5-195 HF 6-2 Pro-Select 6-5 Majesty 6-6 97-3806 6-5 Pro-Select 5-8 97-1107 6-1 Divine 6-5 Premier II 6-6 Pro-Select 6-5 Majesty 6-3 Premier II 6-1 Pro-Select 5-8 97-1110 6-1 Divine 6-5 Premier II 6-1 Pro-Select 5-8 97-1110 6-1 Divine 6-5 Premier II 6-1 Pro-Select 5-8 97-1110 6-1 Divine 6-5 Premier II 6-1 Pro-Select 5-8 97-1110 6-1 Divine 6-5 Premier II 6-1 Pro-Select 5-5 Pro-Select 1-5 Pro- | 97-1108                | 6.9   |                  | 6.0     | Sonoran         | 6.5            | Paragon          | 6.7            |
| 95-1 6.8 Majesty 5.9 lmgn/Lynx/Pgss 6.5 WXS-195 HF 6.7 97-1106 6.8 95-1 5.9 LP 9 6.4 Select 1 6.7 97-1157 6.7 WXS-195 HF 5.8 Vivid/Cthd2/Slct1 6.4 M59-6-663 6.7 97-1107 6.7 Vivid/Cthd2/Slct1 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-1104 6.5 Select 1 5.8 P68-7-21 6.3 Majesty 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3807 6.5 97-3159 5.8 MP 5 6.3 P68-7-21 6.6 97-3806 6.5 Charger II 5.8 WXS-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 WXS-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1107 6.1 Divine 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Select 1 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 Lacedo 6.4 LP.9 5.9 97-1157 5.6 Citation II 5.9 Lacedo 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 Catalina 5.7 97-1150 5.6 P7-1149 5.9 97-3806 6.3 Catalina 5.7 97-1150 5.6 P7-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 97-1150 5.6 P7-1149 5.7 97-1157 6.2 Sonoran 5.7 97-1150 5.5 97-1140 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 97-1150 5.5 97-1140 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 97-1150 5.5 97-1143 5.6 97-1149 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3808 6.2 Vivid/Cthd2/Slct1 5.5 97-1149 5.4 97-1106 5.6 97-3809 6.1 Catawntrply 5.4 EP 37 5.4 97-1107 5.6 97-3809 6.1 Catawntrply 5.4 EP 37 5.4 97-1107 5.6 97-3809 6.1 Catawntrply 5.4 P7-1108 5.2 97-3809 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 Pick hybred YNC 5.5 97-1108 5.8 EPH 4.8 97-1108 5.9 97-1108 5.9 97-1108 5.8 EPH 4.8 97-1108 5.9 97-1108 5.9 97-1108 5.8 EPH 5.1 Prick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.7 Vision quest 4.2 Vision quest 4.4 Vision quest 4.3 Barverdi 3.8 Barverdi 3.8 Barverdi 3.8 Barverdi 3.5 PPD 3.9 Interim 3.7 Interim 3.7 Interim 3.7 Interim 3.0 Gulf 3.1   | 97-3808                | 6.9   | 97-1107          | 6.0     | Majesty         | 6.5            |                  | 6.7            |
| 97-1157 6.7 WX5-195 HF 5.8 Vivd/Cthd2/Slct1 6.4 M59-6-663 6.7 P7-1107 6.7 Vivd/Cthd2/Slct1 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-1104 6.6 Select 1 5.8 P68-7-21 6.3 Majesty 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3807 6.5 97-1159 5.8 MP 5 6.3 Premier II 6.6 97-3806 6.5 Charger II 5.8 WX5-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 P7-6-8-Cel 6.5 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivd/Cthd2/Slct1 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivd/Cthd2/Slct1 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Select 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 Laredo 6.4 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-1150 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 P68-7-21 5.9 Citation II 5.6 P7-1149 5.9 97-3806 6.3 P7-1150 5.6 P7-1149 5.9 P7-1150 6.2 P7-1150 5.6 P7-1149 5.9 P7-1150 6.2 P7-1150 5.5 P7-1150 5.5 P7-1150 5.5 P7-1150 6.2 P7-1150 5.5 P7-1150 5.5 P7-1150 5.5 P7-1150 6.2 P7-1150 5.5 P7-1150 5.5 P7-1150 5.6 P | 95-1                   | 6.8   | Majesty          | 5.9     | Imgn/Lynx/Pgss  | 6.5            |                  | 6.7            |
| 97-1107 6.7 Vivd/Cthd2/Slct1 5.8 Divine 6.3 LA20-6-PRMC 6.6 97-1104 6.5 Sclect 1 5.8 P68-7-21 6.3 Majesty 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3807 6.5 97-1159 5.8 MP 5 6.3 P68-7-21 6.6 97-3807 6.5 97-1189 5.8 MP 5 6.3 P68-7-21 6.6 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 97-1199 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1197 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivd/Cthd2/Slct1 6.5 Imgn/Lynx/Pgss 6.1 97-1197 5.8 97-1111 6.1 97-1159 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Sclect 1 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 LP 9 5.9 97-1104 5.6 97-1157 5.9 97-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 EP 37 5.8 97-3806 5.6 Pro-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 97-1142 5.8 Conoran 5.7 97-1150 5.6 97-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 F1107 5.5 97-1104 5.7 97-1157 6.2 Conoran 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 P7-1149 5.9 P7-1107 6.3 Catalina 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 P7-1149 5.9 P7-1107 6.3 Catalina 5.7 97-1150 5.6 P7-1142 5.8 Citation II 6.3 Catalina 5.7 97-1150 5.6 P7-1142 5.8 Citation II 6.3 Catalina 5.7 97-1150 5.6 P7-1142 5.8 Citation II 6.3 Catalina 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 P7-1142 5.8 Citation II 5.6 P7-1142 5.8 Citation II 5.6 P7-1142 5.5 P7-1104 5.7 97-1157 6.2 Citation II 5.6 P7-1142 5.5 P7-1104 5.7 97-1150 6.2 Citation II 5.6 P7-1143 5.6 P7-1149 6.2 WXS-195 HF 5.6 P7-1143 5.4 P7-1150 5.6 P7-1140 6.2 WXS-195 HF 5.6 P7-1143 5.4 P7-1150 5.6 P7-1140 6.2 WXS-195 HF 5.6 P7-1143 5.4 P7-1150 5.6 P7-1140 6.2 WXS-195 HF 5.6 P7-1143 5.4 P7-1107 5.5 P7-1106 6.1 Catwritiply 5.4 P7-1143 5.4 P7-1107 5.5 P7-1106 5.1 P7-1106 5.2 P7-1106 5.2 P7-1106 5.5 P7-1106 5.1 P7-1106 5.2 P | 97-1106                | 6.8   | 95-1             | 5.9     | LP 9            | 6.4            | Select 1         | 6.7            |
| 97-1164 6.6 Select 1 5.8 P68-7-21 6.3 Majesty 6.6 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3807 6.5 97-1159 5.8 MP 5 6.3 P68-7-21 6.6 97-3806 6.5 Charger II 5.8 WX5-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 VivdCrthd2/Slet1 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.1 97-1159 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Pro-Select 1 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 LP 9 5.9 97-1164 5.6 97-1149 5.9 97-3806 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 P68-7-21 5.9 Citation II 5.6 P7-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.6 P7-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Catalina 5.6 P7-1142 5.5 P7-1149 5.9 P7-3808 6.2 Citation II 5.6 EP 37 5.7 97-1197 6.2 Citation II 5.6 EP 37 5.7 97-1149 6.2 Citation II 5.6 P7-1142 5.5 P7-1149 5.4 P7-1150 5.6 P7-1149 6.2 P7-1149 5.4 P7-1150 5.6 P7-1149 6.1 P7-1149 5.4 P7-1150 5.5 P7-1149 6.1 P7-1149 5.4 P7-1149 5 | 97-1157                | 6.7   | WX5-195 HF       | 5.8     | Vivd/Cthd2/Slct | 1 6.4          | M59-6-663        | 6.7            |
| 97-1104 6.5 97-3808 5.8 Catalina 6.3 Premier II 6.6 97-3807 6.5 97-1159 5.8 MP.5 6.3 P68-7-21 6.6 97-3806 6.5 Charger II 5.8 WX5-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivid/Cthd2/Slct1 6.5 Imgn/Lynx/Pgss 6.1 97-1197 5.8 97-1111 6.1 97-1159 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Select 1 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 LP 9 5.9 97-1104 5.6 97-1159 5.9 P7-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 P7-3806 5.6 Pro-Select 5.8 97-1150 6.3 Catalina 5.7 97-1150 5.6 P7-1149 5.9 97-3806 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Sonoram 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1106 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.5 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.6 97-1109 5.7 97-1109 5.8 P7-1109 5.9 P7-1109 5.8 P7-1109 5.9 P7-1109 5. | 97-1107                | 6.7   | Vivd/Cthd2/Slct1 | 5.8     | Divine          | 6.3            | LA20-6-PRMC      | 6.6            |
| 97-3806 6.5 97-1159 5.8 MP 5 6.3 P68-7-21 6.6 97-3806 6.5 Charger II 5.8 WX5-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivd/Chd2/Slct1 6.5 lmgn/Lynx/Pgss 6.1 97-1197 5.8 97-1111 6.1 97-1159 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Select 1 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 LP 9 5.9 97-1104 5.6 97-1157 5.9 97-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 EP 37 5.8 97-3806 5.6 P70-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 EP 37 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 EP 37 5.7 97-1196 5.5 97-1104 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1197 6.2 Citation II 5.6 Laredo 5.5 97-1142 5.8 Citation II 6.2 Divine 5.5 97-3809 5.4 97-1105 5.6 97-1142 5.5 97-1149 6.2 Divine 5.5 97-3809 5.4 97-1105 5.6 97-3809 6.1 Catalina 5.7 97-1197 5.4 97-1150 5.6 2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3809 6.1 Catalina 5.7 97-1199 5.4 97-1106 5.6 97-3809 6.1 Catalina 5.7 97-1149 5.4 97-1150 5.6 97-3809 6.1 Catalina 5.5 97-1106 5.5 97-1106 5.6 97-3809 6.1 Catalina 5.5 97-1106 5.5 97-3809 5.4 97-1106 5.6 97-3809 6.1 Catalina 5.7 97-1106 5.2 97-1106 5.5 97-1106 5.9 P7-1106 5.9 P7 | 97-1164                | 6.6   | Select 1         | 5.8     | P68-7-21        | 6.3            | Majesty          | 6.6            |
| 97-3806 6.5 Charger II 5.8 WX5-195 HF 6.2 Pro-Select 6.5 Majesty 6.3 Divine 5.8 LA20-6-PRMC 6.2 EP 37 6.5 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1107 6.1 Divine 6.5 Imgn/Lynx/Pgss 6.1 97-1197 5.8 97-1111 6.1 97-1159 6.5 Prangon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Select 1 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 LP 9 5.9 97-1157 5.6 Citation II 5.9 University 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 P3 5.8 97-3806 5.6 Pro-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 P7-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1150 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-1142 5.8 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3808 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3809 6.1 Cat/wntrply 5.4 EP 37 5.4 97-1197 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1106 5.2 97-3809 5.4 97-1106 5.5 97-3809 6.1 Cat/wntrply 5.4 97-1106 5.2 97-3806 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1106 5.2 97-3806 5.6 97-3807 6.1 Laredo 5.2 97-1109 5.2 97-3809 5.4 97-1109 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 Pick hybred YNC 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 Pick hybred YNC 5.5 97-1106 5.9 Pick hybred YNC 5.5 97-1108 5.8 EPH 4.8 97-1109 5.8 EPH 5.1 Prick under 4.8 EPH 4.8 EPH 5.1 Pick hybred YNC 5.7 Pick hybred YNC 5.7 Pick hybred YNC 5.7 Pick hybred YNC 5.7 Pick hybred YNC 5.1 Pick hybred YNC 4.7 Vision quest 4.2 Vision quest 4.4 Vision quest 4.4 Pick hybred YNC 5.1 Pick hybr | 97-1104                | 6.5   | 97-3808          | 5.8     | Catalina        | 6.3            | Premier II       | 6.6            |
| Majesty   6.3   Divine   5.8   LA20-6-PRMC   6.2   EP 37   6.5   97-1149   6.3   Paragon   5.8   97-1159   6.1   Divine   6.5   Fremier II   6.1   Pro-Select   5.8   97-1159   6.1   Vivd/Cthd2/Slct1   6.5   Imgn/Lynx/Pgss   6.1   97-1197   5.8   97-1111   6.1   97-1159   6.5   Paragon   5.9   LA20-6-PRMC   5.6   Paragon   6.0   97-1111   6.4   Select   5.9   97-1157   5.6   Citation II   5.9   Laredo   6.4   LP 9   5.9   97-1104   5.6   97-1157   5.9   97-1104   6.3   P68-7-21   5.9   Citation II   5.6   97-1149   5.9   97-3806   6.3   P68-7-21   5.9   Citation II   5.6   97-1142   5.8   Citation II   6.3   LA20-6-PRMC   5.7   97-1150   5.6   97-1142   5.8   Citation II   6.3   LA20-6-PRMC   5.7   97-1150   5.6   EP 37   5.7   97-1157   6.2   Citation II   5.6   EP 37   5.7   97-1157   6.2   Citation II   5.6   EP 37   5.7   97-1157   6.2   Citation II   5.6   Laredo   5.5   97-1104   5.7   97-1157   6.2   Citation II   5.6   Laredo   5.5   97-1142   5.7   97-1150   6.2   Citation II   5.6   EP 37   5.7   97-1150   6.2   Citation II   5.6   EP 37   5.7   97-1150   6.2   Citation II   5.6   S.5   97-1142   5.5   97-1143   5.6   97-1150   6.2   Citation II   5.6   S.5   97-1142   5.5   97-1143   5.6   97-13808   6.2   Citation II   5.6   S.5   97-1142   5.5   97-1143   5.6   97-13809   6.1   Charger II   5.4   EP 37   5.4   97-1150   5.6   97-3809   6.1   Charger II   5.4   EP 37   5.4   97-1150   5.6   97-3809   6.1   Cat/wntrply   5.4   97-1143   5.4   97-3806   5.6   97-3807   6.1   Cat/wntrply   5.4   97-1109   5.2   97-3807   5.5   97-1106   6.1   Pro-Select   5.3   97-3807   5.3   Pick hybred YNC   5.5   97-1106   6.1   Pro-Select   5.3   97-3807   5.3   Pick hybred YNC   5.5   97-1106   5.9   Pro-Select   5.3   97-1106   5.2   97-1108   5.8   Pro-Select   5.3   97   | 97-3807                |       | 97-1159          | 5.8     | MP 5            | 6.3            | P68-7-21         | 6.6            |
| 97-1149 6.3 Paragon 5.8 97-1107 6.1 Divine 6.5 Premier II 6.1 Pro-Select 5.8 97-1159 6.1 Vivd/Cthd2/Slct1 6.5 Imgn/Lynx/Pgss 6.1 97-1197 5.8 97-1159 6.1 97-1159 6.5 Paragon 5.9 LA20-6-PRMC 5.6 Paragon 6.0 97-1111 6.4 Select 1 5.9 97-1157 5.6 Citation II 5.9 Laredo 6.4 LP 9 5.9 97-1104 5.6 97-1157 5.9 97-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1157 5.9 97-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 EP 37 5.8 97-3806 5.6 Pro-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 Pro-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 EP 37 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1150 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1150 6.2 Citation II 5.6 Laredo 5.5 97-1105 5.6 97-1149 6.2 Citation II 5.6 Laredo 5.5 97-1106 5.6 97-1149 6.2 Citation II 5.6 Laredo 5.5 97-1106 5.6 97-3809 6.1 Citation II 5.5 97-3809 5.4 97-1106 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1149 5.4 97-1150 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1149 5.4 97-1150 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1106 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1106 5.5 97-3809 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 Pick hybred YNC 5.5 97-1106 5.9 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1106 5.1 Pro-Select 5.3 97-3807 5.3 97-1108 5.4 97-1109 5.5 Pro-Select 5.3 97-1106 5.1 97-3807 5.4 97-1109 5.5 97-1106 5.9 Pro-Select 5.3 97-1106 5.1 97-3807 5.4 97-1109 5.5 97-1106 5.9 Pro-Select 5.3 97-1106 5.2 97-3809 5.5 97-1106 5.1 Pro-Select 5.3 97-1106 5.2 97-3809 5.5 97-1106 5.5 97-1106 5.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1106 5.5 97-1106 5.1 Pro-Select 5.3 97-1106 5.2 97-3809 5.5 97-1109 5.5 97-1106 5.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1106 5.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1106 5.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1106 5.1 Pro-Select 5.3 97-1106 5.2 97-3809 5.5 97-1109 5.8 EPH 4.8 97-1108 5.4 97-1109 5.8 EPH 5.1 Pro-Select 5.3 97-1106 5.1 Pro-Select 5.3 97-1106 5.1  |                        |       | Charger II       |         | WX5-195 HF      |                | Pro-Select       |                |
| Premier II   | Majesty                |       | Divine           | 5.8     | LA20-6-PRMC     |                | EP 37            | 6.5            |
| Imgn/Lynx/Pgss   6.1   97-1197   5.8   97-1111   6.1   97-1159   6.5     Paragon   5.9   LA20-6-PRMC   5.6   Paragon   6.0   97-1111   6.4     Select   5.9   97-1157   5.6   Citation II   5.9   Laredo   6.4     LP 9   5.9   97-1104   5.6   97-1157   5.9   97-1104   6.3     P68-7-21   5.9   Citation II   5.6   97-1149   5.9   97-3806   6.3     EF 37   5.8   97-3806   5.6   Pro-Select   5.8   97-1107   6.3     Catalina   5.7   97-1150   5.6   97-1142   5.8   Citation II   6.3     LA20-6-PRMC   5.7   P68-7-21   5.6   EP 37   5.7   97-1197   6.2     Sonoran   5.7   97-1196   5.5   97-1104   5.7   97-1157   6.2     Citation II   5.6   Laredo   5.5   97-1104   5.7   97-1157   6.2     Citation II   5.6   Laredo   5.5   97-1143   5.6   97-1149   6.2     WX5-195 HF   5.6   97-1142   5.5   97-1143   5.6   97-1150   6.2     Divine   5.5   97-3809   5.4   97-1106   5.6   97-3808   6.2     Divine   5.5   97-3809   5.4   97-1106   5.6   97-3808   6.2     Vivd/Cthd2/Slctl   5.5   97-1143   5.4   97-1150   5.6   97-3809   6.1     Cat/wntrply   5.4   EP 37   5.4   97-1197   5.6   97-3809   6.1     Cat/wntrply   5.4   97-1143   5.4   97-3806   5.6   97-3807   6.1     Leaderboard   5.4   MP 5   5.3   Pick hybred YNC   5.5   97-1106   6.1     Pro-Select   5.3   97-3807   5.3   97-1109   5.5   97-1106   5.9     MP 5   5.1   97-1106   5.2   97-3807   5.4   97-1108   5.4   97-1108   5.8     Turfstar plus   5.0   97-1164   5.1   97-3807   5.4   97-1109   5.8     EPH   4.8   97-1108   4.9   97-3807   5.4   97-1109   5.8     EPH   4.8   Pick hybred YNC   4.8   97-1104   5.1   Pick hybred YNC   5.1     Pick hybred YNC   4.7   Vision quest   4.2   Vision quest   5.0   Vision quest   4.4     Vision quest   4.3   Barverdi   3.8   Barverdi   4.6   Barverdi   4.3     Barverdi   3.5   TPD   3.5   TPD   3.5   TPD   3.8     Trest MEAN <sup>3</sup>   5.9     5.5     5.9     6.2   | 97-1149                |       | Paragon          |         | 97-1107         | 6.1            | Divine           |                |
| Paragon         5.9         LA20-6-PRMC         5.6         Paragon         6.0         97-1111         6.4           Select 1         5.9         97-1157         5.6         Citation II         5.9         Laredo         6.4           LP 9         5.9         97-1104         5.6         97-1157         5.9         97-3806         6.3           P68-7-21         5.9         Citation II         5.6         97-1149         5.9         97-3806         6.3           EP 37         5.8         97-3806         5.6         Pro-Select         5.8         97-1107         6.3           Catalina         5.7         97-1150         5.6         97-1142         5.8         Citation II         6.3           LA20-6-PRMC         5.7         P68-7-21         5.6         EP 37         5.7         97-1197         6.2           Sonoran         5.7         97-1196         5.5         97-1104         5.7         97-1157         6.2           WXS-195 HF         5.6         97-142         5.5         97-1143         5.6         97-1150         6.2           Divine         5.5         97-3809         5.4         97-1106         5.6         97-3808         6.2  | Premier II             |       | Pro-Select       | 5.8     | 97-1159         | 6.1            | Vivd/Cthd2/Slct1 | 6.5            |
| Select 1         5.9         97-1157         5.6         Citation II         5.9         Laredo         6.4           LP 9         5.9         97-1104         5.6         97-1157         5.9         97-1104         6.3           P68-7-21         5.9         Citation II         5.6         97-1149         5.9         97-3806         6.3           EP 37         5.8         97-3806         5.6         Pro-Select         5.8         97-1107         6.3           Catalina         5.7         97-1150         5.6         97-1142         5.8         Citation II         6.3           LA20-6-PRMC         5.7         97-1196         5.5         97-1104         5.7         97-1197         6.2           Sonoran         5.7         97-1196         5.5         97-1104         5.7         97-1197         6.2           Citation II         5.6         Laredo         5.5         97-1106         5.7         97-1157         6.2           WXS-195 HF         5.6         P3-1142         5.5         97-1143         5.6         97-1150         6.2           WX5-195 HF         5.6         97-1143         5.6         97-1160         5.9         97-1160         6.2   | Imgn/Lynx/Pgss         |       | 97-1197          |         | 97-1111         |                | 97-1159          | 6.5            |
| LP 9 5.9 97-1104 5.6 97-1157 5.9 97-1104 6.3 P68-7-21 5.9 Citation II 5.6 97-1149 5.9 97-3806 6.3 EP 37 5.8 97-3806 5.6 Pro-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 97-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1150 6.2 WX5-195 HF 5.6 97-1142 5.5 97-1143 5.6 97-1150 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3808 6.2 Vivd/Cthd2/Slct1 5.5 97-1149 5.4 97-1150 5.6 97-3808 6.2 Vivd/Cthd2/Slct1 5.5 97-1149 5.4 97-1150 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3807 6.1 Leaderboard 5.4 MP 5 5.3 Pick hybred YNC 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1164 6.0 Laredo 5.2 97-1106 5.2 97-3809 5.5 97-1164 6.0 Laredo 5.2 97-1106 5.2 97-3809 5.5 97-1108 5.8 Turfstar plus 5.0 97-1106 5.2 97-3808 5.4 97-1109 5.5 97-1108 5.8 EPH 4.8 97-1108 5.8 Pick hybred YNC 4.8 97-1108 5.4 97-1109 5.8 EPH 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.8 P7-1108 5.9 Pick hybred YNC 4.8 Pick hybred YNC 4.8 P7-1109 5.1 Pick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.8 Brick hybred YNC 4.8 Brick hybred YNC 4.8 Brick hybred YNC 4.8 Brick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.8 Brick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.7 Vision quest 4.4 Brick hybred YNC 5.1 Pick hybred YNC 5.5 Pick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 5.1 Pi | Paragon                |       | LA20-6-PRMC      | 5.6     | Paragon         |                | 97-1111          | 6.4            |
| P68-7-21         5.9         Citation II         5.6         97-1149         5.9         97-3806         6.3           EP 37         5.8         97-3806         5.6         Pro-Select         5.8         97-1107         6.3           Catalina         5.7         97-1150         5.6         97-1142         5.8         Citation II         6.3           LA20-6-PRMC         5.7         97-1196         5.5         97-1104         5.7         97-1197         6.2           Sonoran         5.7         97-1196         5.5         97-1104         5.7         97-1157         6.2           Citation II         5.6         Laredo         5.5         97-1196         5.7         97-1149         6.2           WX5-195 HF         5.6         97-3809         5.4         97-1106         5.6         97-3808         6.2           Divine         5.5         97-3809         5.4         97-1106         5.6         97-3808         6.2           Vivid/Cthd2/Slct1         5.5         97-1149         5.4         97-1150         5.6         97-3808         6.2           Vivid/Cthd2/Slct1         5.5         97-1149         5.4         97-1197         5.6         97-3809  |                        | 5.9   |                  | 5.6     | Citation II     | 5.9            | Laredo           |                |
| EP 37 5.8 97-3806 5.6 Pro-Select 5.8 97-1107 6.3 Catalina 5.7 97-1150 5.6 97-1142 5.8 Citation II 6.3 LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1150 6.2 WX5-195 HF 5.6 97-1142 5.5 97-1196 5.6 97-1149 6.2 WX5-195 HF 5.6 97-1142 5.5 97-1143 5.6 97-1150 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3808 6.2 Vivd/Chd2/Slct1 5.5 97-1149 5.4 97-1106 5.6 97-3808 6.2 Vivd/Chd2/Slct1 5.5 97-1143 5.4 97-1150 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3807 6.1 Leaderboard 5.4 MP 5 5.3 Pick hybred YNC 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 97-3809 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 97-3809 5.5 97-1106 6.1 Laredo 5.2 97-1109 5.2 97-3809 5.5 97-1106 5.9 MP 5 5.1 97-1106 5.2 97-3809 5.5 97-1108 5.8 Turfstar plus 5.0 97-1164 5.1 97-3807 5.4 97-1108 5.8 Turfstar plus 5.0 97-1164 5.1 97-3807 5.4 97-1109 5.8 EPH 4.8 97-1108 4.9 97-3808 5.4 97-1109 5.8 EPH 4.8 Pick hybred YNC 4.8 97-1104 5.2 EPH 5.1 First cut 4.8 EPH 4.8 EPH 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.7 Vision quest 4.2 Vision quest 5.0 Vision quest 4.4 Vision quest 4.3 Barverdi 3.8 Barverdi 4.6 Barverdi 4.3 Barverdi 3.5 TPD 3.5 TPD 3.8 TPD 3.9 Interim 3.2 Interim 3.1 Interim 3.7 Interim 3.6 Gulf 3.0 Gulf 2.9 Gulf 3.4 Gulf 3.1  |                        |       | 97-1104          | 5.6     | 97-1157         | 5.9            | 97-1104          | 6.3            |
| Catalina         5.7         97-1150         5.6         97-1142         5.8         Citation II         6.3           LA20-6-PRMC         5.7         P68-7-21         5.6         EP 37         5.7         97-1197         6.2           Sonoran         5.7         97-1196         5.5         97-1104         5.7         97-1157         6.2           Citation II         5.6         Laredo         5.5         97-1196         5.7         97-1149         6.2           WX5-195 HF         5.6         97-1142         5.5         97-1143         5.6         97-1150         6.2           Divine         5.5         97-3809         5.4         97-1106         5.6         97-3808         6.2           Vivd/Cthd2/Slct1         5.5         97-3809         5.4         97-1150         5.6         97-3808         6.2           Vivd/Cthd2/Slct1         5.5         97-1149         5.4         97-1150         5.6         97-3808         6.2           Vivd/Cthd2/Slct1         5.5         97-1149         5.4         97-1197         5.6         97-3809         6.1           Cat/wntrply         5.4         97-1143         5.4         97-3806         5.6         97-3807  | P68-7-21               |       |                  | 5.6     | 97-1149         |                | 97-3806          | 6.3            |
| LA20-6-PRMC 5.7 P68-7-21 5.6 EP 37 5.7 97-1197 6.2 Sonoran 5.7 97-1196 5.5 97-1104 5.7 97-1157 6.2 Citation II 5.6 Laredo 5.5 97-1104 5.7 97-1157 6.2 WX5-195 HF 5.6 97-1142 5.5 97-1143 5.6 97-1150 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3808 6.2 Vivd/Cthd2/Slct1 5.5 97-1149 5.4 97-1150 5.6 97-3808 6.2 Vivd/Cthd2/Slct1 5.5 97-1143 5.4 97-1150 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3807 6.1 Leaderboard 5.4 MP 5 5.3 Pick hybred YNC 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 97-3807 5.3 97-3807 5.5 97-1106 6.1 Laredo 5.2 97-1109 5.2 97-3809 5.5 97-1106 5.9 MP 5 5.1 97-1106 5.2 97-3809 5.5 97-1108 5.8 Turfstar plus 5.0 97-1164 5.1 97-3807 5.4 97-3808 5.4 97-1109 5.8 EPH 4.8 97-1108 4.9 97-3808 5.4 97-1109 5.8 EPH 4.8 Pick hybred YNC 4.8 PFH 5.1 Pick hybred YNC 4.8 EPH 4.8 EPH 5.1 Pick hybred YNC 5.1 Pick hybred YNC 5.1 Pick hybred YNC 4.7 Vision quest 4.2 Vision quest 5.0 Vision quest 4.4 Vision quest 4.3 Barverdi 3.5 TPD 3.5 TPD 3.5 TPD 3.8 TPD 3.9 Interim 3.2 Interim 3.1 Interim 3.7 Interim 3.6 Gulf 3.0 Gulf 2.9 Gulf 3.4 Gulf 3.1   |                        |       |                  |         |                 |                | 97-1107          |                |
| Sonoran         5.7         97-1196         5.5         97-1104         5.7         97-1157         6.2           Citation II         5.6         Laredo         5.5         97-1196         5.7         97-1149         6.2           WX5-195 HF         5.6         97-1142         5.5         97-1143         5.6         97-1150         6.2           Divine         5.5         97-3809         5.4         97-1106         5.6         97-3808         6.2           Vivd/Cthd2/Slct1         5.5         97-1149         5.4         97-1150         5.6         97-3808         6.2           Charger II         5.4         EP 37         5.4         97-1197         5.6         97-3809         6.1           Cat/wntrply         5.4         97-1143         5.4         97-3806         5.6         97-3807         6.1           Leaderboard         5.4         MP 5         5.3         Pick hybred YNC         5.5         97-1106         6.1           Laredo         5.2         97-3807         5.3         97-1106         5.5         97-1164         6.0           Laredo         5.2         97-1108         5.4         97-1196         5.9           MP 5   |                        |       |                  |         |                 |                |                  |                |
| Citation II 5.6 Laredo 5.5 97-1196 5.7 97-1149 6.2 WX5-195 HF 5.6 97-1142 5.5 97-1143 5.6 97-1150 6.2 Divine 5.5 97-3809 5.4 97-1106 5.6 97-3808 6.2 Vivd/Cthd2/Slct1 5.5 97-1149 5.4 97-1150 5.6 97-3809 6.1 Charger II 5.4 EP 37 5.4 97-1197 5.6 97-3809 6.1 Cat/wntrply 5.4 97-1143 5.4 97-3806 5.6 97-3807 6.1 Leaderboard 5.4 MP 5 5.3 Pick hybred YNC 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1106 6.1 Pro-Select 5.3 97-3807 5.3 97-1109 5.5 97-1164 6.0 Laredo 5.2 97-1109 5.2 97-3809 5.5 97-1106 5.9 MP 5 5.1 97-1106 5.2 97-1809 5.5 97-1108 5.8 Turfstar plus 5.0 97-1164 5.1 97-3807 5.4 97-1109 5.8 EPH 4.8 97-1108 4.9 97-3808 5.4 97-1109 5.8 EPH 4.8 97-1108 4.9 97-3808 5.4 97-1143 5.7 TPD 4.8 Pick hybred YNC 4.8 97-1164 5.2 EPH 5.1 Pick hybred YNC 5.2 Pick Pick Pick hybred YNC 5.2 Pick Pick Pick Pick Pick Pick Pick Pick                              | LA20-6-PRMC            |       |                  |         |                 |                | 97-1197          |                |
| WX5-195 HF         5.6         97-1142         5.5         97-1143         5.6         97-1150         6.2           Divine         5.5         97-3809         5.4         97-1106         5.6         97-3808         6.2           Vivd/Cthd2/Slctl         5.5         97-1149         5.4         97-1150         5.6         97-3808         6.2           Charger II         5.4         EP 37         5.4         97-1197         5.6         97-3809         6.1           Cat/wntrply         5.4         EP 37         5.4         97-1197         5.6         97-3809         6.1           Cat/wntrply         5.4         P97-1143         5.4         97-3806         5.6         97-3807         6.1           Leaderboard         5.4         MP 5         5.3         Pick hybred YNC         5.5         97-1106         6.1           Pro-Select         5.3         97-3807         5.3         97-1109         5.5         97-1164         6.0           Laredo         5.2         97-1109         5.2         97-3809         5.5         97-1196         5.9           MP 5         5.1         97-1164         5.1         97-3807         5.4         97-1108         5.8 <td>Sonoran</td> <td>5.7</td> <td>97-1196</td> <td>5.5</td> <td>97-1104</td> <td></td> <td>97-1157</td> <td>6.2</td>  | Sonoran                | 5.7   | 97-1196          | 5.5     | 97-1104         |                | 97-1157          | 6.2            |
| Divine         5.5         97-3809         5.4         97-1106         5.6         97-3808         6.2           Vivd/Cthd2/Slct1         5.5         97-1149         5.4         97-1150         5.6         97-3809         6.1           Charger II         5.4         EP 37         5.4         97-1197         5.6         97-3809         6.1           Cat/wntrply         5.4         97-1143         5.4         97-3806         5.6         97-3807         6.1           Leaderboard         5.4         MP 5         5.3         Pick hybred YNC         5.5         97-1106         6.1           Pro-Select         5.3         97-3807         5.3         Pick hybred YNC         5.5         97-1106         6.1           Laredo         5.2         97-1109         5.2         97-3809         5.5         97-1196         5.9           MP 5         5.1         97-1106         5.2         97-1108         5.4         97-1108         5.8           Turfstar plus         5.0         97-1164         5.1         97-3807         5.4         97-1109         5.8           EPH         4.8         97-1164         5.1         97-3808         5.4         97-1109         5.  |                        |       |                  |         |                 |                | 97-1149          |                |
| Vivd/Cthd2/Slct1         5.5         97-1149         5.4         97-1150         5.6         97-142         6.1           Charger II         5.4         EP 37         5.4         97-1197         5.6         97-3809         6.1           Cat/wntrply         5.4         97-1143         5.4         97-3806         5.6         97-3807         6.1           Leaderboard         5.4         MP 5         5.3         Pick hybred YNC         5.5         97-1106         6.1           Pro-Select         5.3         97-3807         5.3         97-1109         5.5         97-1164         6.0           Laredo         5.2         97-1109         5.2         97-3809         5.5         97-1166         5.9           MP 5         5.1         97-1106         5.2         97-1108         5.4         97-1108         5.8           Turfstar plus         5.0         97-1164         5.1         97-3807         5.4         97-1108         5.8           EPH         4.8         97-1108         4.9         97-3808         5.4         97-1109         5.8           EPH         4.8         97-1108         4.9         97-3808         5.4         97-1143         5.7     <   |                        |       |                  |         |                 |                |                  |                |
| Charger II       5.4       EP 37       5.4       97-1197       5.6       97-3809       6.1         Cat/wntrply       5.4       97-1143       5.4       97-3806       5.6       97-3807       6.1         Leaderboard       5.4       MP 5       5.3       Pick hybred YNC       5.5       97-1106       6.1         Pro-Select       5.3       97-3807       5.3       97-1109       5.5       97-1164       6.0         Laredo       5.2       97-1109       5.2       97-3809       5.5       97-1196       5.9         MP 5       5.1       97-1106       5.2       97-1108       5.4       97-1108       5.8         Turfstar plus       5.0       97-1164       5.1       97-3807       5.4       97-1109       5.8         EPH       4.8       97-1108       4.9       97-3808       5.4       97-1143       5.7         TPD       4.8       Pick hybred YNC       4.8       97-1164       5.2       EPH       5.1         First cut       4.8       EPH       4.8       EPH       5.1       Pick hybred YNC       5.1         Pick hybred YNC       4.7       Vision quest       4.2       Vision quest       5.0   |                        |       |                  |         |                 |                |                  |                |
| Cat/wntrply         5.4         97-1143         5.4         97-3806         5.6         97-3807         6.1           Leaderboard         5.4         MP 5         5.3         Pick hybred YNC         5.5         97-1106         6.1           Pro-Select         5.3         97-3807         5.3         97-1109         5.5         97-1164         6.0           Laredo         5.2         97-1109         5.2         97-3809         5.5         97-1196         5.9           MP 5         5.1         97-1106         5.2         97-1108         5.4         97-1108         5.8           Turfstar plus         5.0         97-1164         5.1         97-3807         5.4         97-1109         5.8           EPH         4.8         97-1108         4.9         97-3807         5.4         97-1109         5.8           EPH         4.8         97-1108         4.9         97-3808         5.4         97-1143         5.7           TPD         4.8         Pick hybred YNC         4.8         97-1164         5.2         EPH         5.1           First cut         4.8         EPH         4.1         Pick hybred YNC         5.1         Pick hybred YNC         5.1  |                        |       |                  |         |                 |                |                  |                |
| Leaderboard       5.4       MP 5       5.3       Pick hybred YNC       5.5       97-1106       6.1         Pro-Select       5.3       97-3807       5.3       97-1109       5.5       97-1164       6.0         Laredo       5.2       97-1109       5.2       97-3809       5.5       97-1196       5.9         MP 5       5.1       97-1106       5.2       97-1108       5.4       97-1108       5.8         Turfstar plus       5.0       97-1164       5.1       97-3807       5.4       97-1109       5.8         EPH       4.8       97-1108       4.9       97-3808       5.4       97-1143       5.7         TPD       4.8       Pick hybred YNC       4.8       97-1164       5.2       EPH       5.1         First cut       4.8       EPH       4.8       EPH       5.1       Pick hybred YNC       5.1         Pick hybred YNC       4.7       Vision quest       4.2       Vision quest       5.0       Vision quest       4.4         Vision quest       4.3       Barverdi       3.8       Barverdi       4.6       Barverdi       4.3         Barverdi       3.2       Interim       3.1       Interim  |                        |       |                  |         |                 |                |                  |                |
| Pro-Select         5.3         97-3807         5.3         97-1109         5.5         97-1164         6.0           Laredo         5.2         97-1109         5.2         97-3809         5.5         97-1196         5.9           MP 5         5.1         97-1106         5.2         97-1108         5.4         97-1108         5.8           Turfstar plus         5.0         97-1164         5.1         97-3807         5.4         97-1109         5.8           EPH         4.8         97-1108         4.9         97-3808         5.4         97-1143         5.7           TPD         4.8         Pick hybred YNC         4.8         97-1164         5.2         EPH         5.1           First cut         4.8         EPH         4.8         EPH         5.1         Pick hybred YNC         5.1           Pick hybred YNC         4.7         Vision quest         4.2         Vision quest         5.0         Vision quest         4.4           Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.2         Interim         3.1         Interim         3.7         Interim <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>   |                        |       |                  |         |                 |                |                  |                |
| Laredo       5.2       97-1109       5.2       97-3809       5.5       97-1196       5.9         MP 5       5.1       97-1106       5.2       97-1108       5.4       97-1108       5.8         Turfstar plus       5.0       97-1164       5.1       97-3807       5.4       97-1109       5.8         EPH       4.8       97-1108       4.9       97-3808       5.4       97-1143       5.7         TPD       4.8       Pick hybred YNC       4.8       97-1164       5.2       EPH       5.1         First cut       4.8       EPH       4.8       EPH       5.1       Pick hybred YNC       5.1         Pick hybred YNC       4.7       Vision quest       4.2       Vision quest       5.0       Vision quest       4.4         Vision quest       4.3       Barverdi       3.8       Barverdi       4.6       Barverdi       4.3         Barverdi       3.5       TPD       3.8       TPD       3.9         Interim       3.2       Interim       3.1       Interim       3.7       Interim       3.6         Gulf       3.0       Gulf       2.9       Gulf       3.4       Gulf       3.1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>  |                        |       |                  |         |                 |                |                  |                |
| MP 5         5.1         97-1106         5.2         97-1108         5.4         97-1108         5.8           Turfstar plus         5.0         97-1164         5.1         97-3807         5.4         97-1109         5.8           EPH         4.8         97-1108         4.9         97-3808         5.4         97-1143         5.7           TPD         4.8         Pick hybred YNC         4.8         97-1164         5.2         EPH         5.1           First cut         4.8         EPH         4.8         EPH         5.1         Pick hybred YNC         5.1           Pick hybred YNC         4.7         Vision quest         4.2         Vision quest         5.0         Vision quest         4.4           Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.5         TPD         3.8         TPD         3.9           Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1   | Pro-Select             |       |                  |         |                 |                |                  |                |
| Turfstar plus         5.0         97-1164         5.1         97-3807         5.4         97-1109         5.8           EPH         4.8         97-1108         4.9         97-3808         5.4         97-1143         5.7           TPD         4.8         Pick hybred YNC         4.8         97-1164         5.2         EPH         5.1           First cut         4.8         EPH         4.8         EPH         5.1         Pick hybred YNC         5.1           Pick hybred YNC         4.7         Vision quest         4.2         Vision quest         5.0         Vision quest         4.4           Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.5         TPD         3.8         TPD         3.9           Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1           TEST MEAN³         5.9          5.5          5.9          6.2  |                        |       |                  |         |                 |                |                  |                |
| EPH       4.8       97-1108       4.9       97-3808       5.4       97-1143       5.7         TPD       4.8       Pick hybred YNC       4.8       97-1164       5.2       EPH       5.1         First cut       4.8       EPH       4.8       EPH       5.1       Pick hybred YNC       5.1         Pick hybred YNC       4.7       Vision quest       4.2       Vision quest       5.0       Vision quest       4.4         Vision quest       4.3       Barverdi       3.8       Barverdi       4.6       Barverdi       4.3         Barverdi       3.5       TPD       3.8       TPD       3.9         Interim       3.2       Interim       3.1       Interim       3.7       Interim       3.6         Gulf       3.0       Gulf       2.9       Gulf       3.4       Gulf       3.1         TEST MEAN <sup>3</sup> 5.9        5.5        5.9        6.2  |                        |       |                  |         |                 |                |                  |                |
| TPD         4.8         Pick hybred YNC         4.8         97-1164         5.2         EPH         5.1           First cut         4.8         EPH         4.8         EPH         5.1         Pick hybred YNC         5.1           Pick hybred YNC         4.7         Vision quest         4.2         Vision quest         5.0         Vision quest         4.4           Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.5         TPD         3.8         TPD         3.9           Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1           TEST MEAN <sup>3</sup> 5.9          5.5          5.9          6.2  |                        |       |                  |         |                 |                |                  |                |
| First cut         4.8         EPH         4.8         EPH         5.1         Pick hybred YNC         5.1           Pick hybred YNC         4.7         Vision quest         4.2         Vision quest         5.0         Vision quest         4.4           Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.5         TPD         3.8         TPD         3.9           Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1           TEST MEAN <sup>3</sup> 5.9          5.5          5.9          6.2  |                        |       |                  |         |                 |                |                  |                |
| Pick hybred YNC         4.7         Vision quest         4.2         Vision quest         5.0         Vision quest         4.4           Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.5         TPD         3.8         TPD         3.9           Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1           TEST MEAN <sup>3</sup> 5.9          5.5          5.9          6.2  |                        |       |                  |         |                 |                |                  |                |
| Vision quest         4.3         Barverdi         3.8         Barverdi         4.6         Barverdi         4.3           Barverdi         3.5         TPD         3.8         TPD         3.9           Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1           TEST MEAN³         5.9          5.5          5.9          6.2   |                        |       |                  |         |                 |                |                  |                |
| Barverdi       3.5       TPD       3.5       TPD       3.8       TPD       3.9         Interim       3.2       Interim       3.1       Interim       3.7       Interim       3.6         Gulf       3.0       Gulf       2.9       Gulf       3.4       Gulf       3.1         TEST MEAN³       5.9        5.5        5.9        6.2   |                        |       |                  |         |                 |                |                  |                |
| Interim         3.2         Interim         3.1         Interim         3.7         Interim         3.6           Gulf         3.0         Gulf         2.9         Gulf         3.4         Gulf         3.1           TEST MEAN³         5.9          5.5          5.9          6.2  |                        |       |                  |         |                 |                |                  |                |
| Gulf     3.0     Gulf     2.9     Gulf     3.4     Gulf     3.1       TEST MEAN³     5.9      5.5      5.9      6.2  |                        |       |                  |         |                 |                |                  |                |
| TEST MEAN <sup>3</sup> 5.9 5.5 5.9 6.2   |                        |       |                  |         |                 |                |                  |                |
|  | Gulf                   | 3.0   | Gulf             | 2.9     | Gulf            | 3.4            | Gulf             | 3.1            |
|  |                        |       |                  |         |                 |                |                  |                |
| LSD VALUE* 0.9 1.0 1.1 0.5   |                        |       |                  |         |                 |                |                  |                |
|  | LSD VALUE <sup>4</sup> | 0.9   |                  | 1.0     |                 | 1.1            |                  | 0.5            |

<sup>&</sup>lt;sup>1</sup>All variables on scale of 1-9. 1 = dead, 9 = most desirable condition.

<sup>2</sup>Values are the mean of three replications.

<sup>3</sup>Test Mean = mean of all entries.

<sup>4</sup>LSD Value = mean separation statistic. Entries whose means differ greater than the LSD value are statistically different from each other.

FIN. PAIRWAY 98 Q398