



PERFORMANCE
OF
RYEGRASS
VARIETIES IN
ALABAMA
1990-91



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PERFORMANCE OF RYEGRASS VARIETIES

IN ALABAMA, 1990-91

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The Alabama Ryegrass Variety Evaluation is a continuing study of available varieties and breeding lines from private companies and state agricultural experiment stations. Experiments are planted in northern, central, and southern locations to evaluate the varieties and lines under the different environmental conditions of Alabama. The experiments are conducted by Experiment Station personnel and the results are presented in a fair and unbiased manner.

EXPERIMENTAL PROCEDURES AND DISCUSSION

Ryegrass entries were seeded at a 20-pound-per-acre rate in rows 7 inches apart, using plots 5 x 20 feet with four replications. Good stands were obtained at the following locations: Sand Mountain Substation, Crossville; Plant Breeding Unit, Tallassee; Piedmont Substation, Camp Hill; and Gulf Coast Substation, Fairhope.

The experiments were fertilized with phosphorus and potassium according to Auburn University soil test recommendations. At planting, nitrogen was applied at the rate of 50 pounds per acre, and an additional 50 pounds of N was applied per acre after each cutting. A 32- or 48-inch swath of each plot was harvested to a cutting height of 1 1/2 to 2 inches with a flail harvester each time the ryegrass reached 6-10 inches tall. A herbage sample of approximately 1 pound was taken from each plot at each harvest for determining forage dry matter percentage.

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Due to dry soil conditions in fall of 1990, experiments at Fairhope, Tallassee, and Camp Hill were not planted until October 30, 25, and 31, respectively. The experiment at Crossville was planted September 20, 1990. Dry conditions at Fairhope in the fall of 1988 resulted in a poor stand for the first planting, so the experiment was replanted November 30. This late establishment resulted in no fall production. In 1989, the experiments were all planted by October 13. Above average temperatures recorded at all locations in 1990-91 caused good fall and winter growth to occur. Strategies to meet seasonal forage needs are an important consideration for livestock producers. Tables 1-7 provide yield data by harvest for one or more years at a given location. Tables 8, 9, and 10 show 3-year average yields for the ryegrass production season. A 3-year average provides a more dependable comparison of ryegrass varieties than do single-year results.

ACKNOWLEDGMENTS

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Information contained herein is available to all without regardless to race, color, sex, or national origin.

SOURCES OF RYEGRASS SEED

| | |
|------------------|--|
| Beefbuilder | Forbes Seed, Junction City, Oregon |
| Bulldog | Lofts Seeds, Inc., Bound Brook, New Jersey |
| Concord | Olsen-Fennell Seeds, Inc., Salem, Oregon |
| Dalita | Daehnfeltdt, Albany, Oregon |
| EICO-9-88 | Willamette Valley Plant Breeders, Inc., Brownsville, Oregon |
| Florida 80 | University of Florida, Gainesville Florida |
| Gulf | Silverhill Farmer's Ass'n., Robertsedale, Alabama |
| HI 124 | Van Der Have Oregon, Inc., Albany, Oregon |
| Jackson | Delta and Pine Land Co., Scott, Mississippi |
| Magnolia | Forbes Seed, Junction City, Oregon |
| Marshall | Delta and Pine Land Co., Scott, Mississippi |
| Multigrazer II | Van Der Have Oregon, Inc., Albany, Oregon |
| Multigrazer II A | Van Der Have Oregon, Inc., Albany, Oregon |
| Nutriblend | Daehnfeltdt, Albany, Oregon |
| OFI-AR-B7T | Olsen-Fennell Seeds, Inc., Albany, Oregon |
| OFI-AR-42 | Olsen-Fennell Seeds, Inc., Albany, Oregon |
| OFI-IM-AR-42 | Olsen-Fennell Seeds, Inc., Albany, Oregon |
| Rustmaster | Daehnfeltdt, Albany, Oregon |
| Surry | University of Florida, Gainesville, Florida |
| Tetrablend 444T3 | Smith Seed, Halsey, Oregon |
| Tetragold | Normarc, Inc., Tangent, Oregon |
| TX R85-2 | Texas A&M University, Overton, Texas |
| WVPB-AR-90-1 | Willamette Valley Plant Breeders, Inc., Brownsville, Oregon |
| WVPB-AR-90-300 | Willamette Valley Plant Breeders, Inc., Brownsville, Oregon |
| WVPB-AR-601 | Willamette Valley Plant Breeders, Inc., Brownsville, Oregon |
| WVPB-IM-AR-2 | Willamette Valley Plant Breeders, Inc., Brownsville, Oregon |
| WVPB-IM-AR-F-41 | Willamette Valley Plant Breeders, Inc., Brownsville, Oregon |

TABLE 1. SEASONAL DRY MATTER YIELD OF RYEGRASS VARIETIES AT THE GULF COAST SUBSTATION, FAIRHOPE, ALABAMA, 1991

| BRAND-VARIETY | ACRE YIELD BY HARVEST DATE | | | | | | SEASON |
|-------------------|----------------------------|------|-------|-------|-------|-------|--------|
| | 1/2 | 1/23 | 2/18 | 3/11 | 4/10 | 5/14 | TOTAL |
| | LB. | LB. | LB. | LB. | LB. | LB. | LB. |
| HI 124 | 681 | 450 | 1,060 | 1,834 | 2,359 | 2,484 | 8,868 |
| RUSTMASTER | 899 | 609 | 1,481 | 1,612 | 2,306 | 1,750 | 8,657 |
| JACKSON | 578 | 525 | 1,362 | 1,607 | 2,180 | 2,297 | 8,549 |
| OFI-LM-AR-42 | 702 | 440 | 1,120 | 1,713 | 2,190 | 2,353 | 8,518 |
| MULTIGRAZER II A | 592 | 437 | 1,139 | 1,671 | 2,465 | 2,127 | 8,431 |
| WVPB-LM-AR-2 | 704 | 478 | 1,106 | 1,666 | 2,449 | 2,022 | 8,425 |
| BULLDOG | 830 | 514 | 1,346 | 1,583 | 2,144 | 1,933 | 8,350 |
| NUTRIBLEND | 655 | 671 | 1,316 | 1,528 | 2,253 | 1,780 | 8,203 |
| SURRY | 674 | 507 | 1,206 | 1,639 | 2,151 | 2,001 | 8,178 |
| WVPB-LM-AR-F-41 | 557 | 531 | 1,244 | 1,540 | 2,020 | 2,240 | 8,132 |
| WVPB-AR-90-1 | 498 | 436 | 986 | 1,658 | 2,511 | 2,002 | 8,091 |
| WVPB-AR-90-300 | 513 | 437 | 1,392 | 1,548 | 2,324 | 1,870 | 8,084 |
| TETRA-GOLD | 499 | 403 | 1,081 | 1,545 | 1,860 | 2,644 | 8,032 |
| MARSHALL | 741 | 459 | 1,042 | 1,826 | 2,229 | 1,686 | 7,983 |
| GULF | 598 | 703 | 1,435 | 1,438 | 2,190 | 1,580 | 7,944 |
| FLORIDA 80 | 503 | 421 | 1,338 | 1,527 | 2,342 | 1,673 | 7,804 |
| DALITA | 819 | 500 | 1,110 | 1,457 | 2,189 | 1,659 | 7,734 |
| CONCORD | 619 | 588 | 1,143 | 1,349 | 1,713 | 2,296 | 7,708 |
| WVPB-AR-601 | 659 | 412 | 1,317 | 1,528 | 1,958 | 1,783 | 7,657 |
| TX R85-2 | 538 | 527 | 1,190 | 1,545 | 2,222 | 1,611 | 7,633 |
| MULTIGRAZER II | 526 | 488 | 1,264 | 1,511 | 2,056 | 1,745 | 7,590 |
| TETRA BLEND 444T3 | 387 | 400 | 1,319 | 1,335 | 2,262 | 1,845 | 7,548 |
| BEEFBUILDER | 588 | 383 | 1,268 | 1,333 | 1,991 | 1,859 | 7,422 |
| MAGNOLIA | 516 | 478 | 1,258 | 1,356 | 2,139 | 1,491 | 7,238 |
| OFI-AR-42 | 419 | 373 | 1,035 | 1,549 | 2,005 | 1,707 | 7,088 |
| OFI-AR-B7T | 352 | 364 | 1,168 | 1,466 | 2,199 | 1,368 | 6,917 |
| ETCO-9-88 | 586 | 368 | 1,163 | 1,321 | 1,808 | 1,254 | 6,500 |
| TEST MEAN | 601 | 478 | 1,218 | 1,544 | 2,167 | 1,891 | 7,899 |
| C.V. (%) | 32 | 22 | 15 | 9 | 9 | 16 | 7 |
| L.S.D. (.10) | 223 | 121 | 218 | 163 | 230 | 356 | 624 |

PLANTED: OCTOBER 30, 1990.
SOIL: MALBIS FINE SANDY LOAM.

TABLE 2. SEASONAL DRY MATTER YIELD OF RYEGRASS VARIETIES AT THE PLANT BREEDING UNIT, TALLASSEE, ALABAMA, 1991

| BRAND-VARIETY | ACRE YIELD BY HARVEST DATE | | | | | | SEASON TOTAL |
|------------------|----------------------------|-------|-------|-------|-------|-------|--------------|
| | 1/09 | 2/28 | 3/19 | 4/4 | 4/22 | 5/21 | |
| | LB. | LB. | LB. | LB. | LB. | LB. | |
| HI 124 | 715 | 895 | 1,297 | 1,281 | 2,314 | 855 | 7,357 |
| WVPB-AR-601 | 786 | 946 | 1,153 | 1,142 | 1,952 | 838 | 6,817 |
| WVPB-AR-90-300 | 683 | 1,039 | 1,027 | 1,018 | 1,952 | 1,076 | 6,795 |
| RUSTMASTER | 742 | 1,045 | 1,241 | 1,187 | 1,671 | 710 | 6,596 |
| NUTRIBLEND | 668 | 853 | 1,333 | 997 | 1,875 | 853 | 6,579 |
| WVPB-LM-AR-2 | 662 | 973 | 1,120 | 1,102 | 1,930 | 771 | 6,558 |
| OFI-AR-B7T | 702 | 896 | 1,029 | 912 | 1,957 | 1,027 | 6,523 |
| MARSHALL | 700 | 803 | 966 | 1,103 | 2,290 | 610 | 6,472 |
| OFI-LM-AR-42 | 701 | 822 | 1,122 | 1,232 | 1,681 | 834 | 6,392 |
| DALITA | 736 | 944 | 1,227 | 1,092 | 1,771 | 615 | 6,385 |
| BULLDOG | 783 | 915 | 1,040 | 1,299 | 1,632 | 704 | 6,373 |
| SURRY | 721 | 933 | 1,116 | 1,067 | 1,757 | 697 | 6,291 |
| TETRABLEND 444T3 | 563 | 942 | 1,073 | 1,043 | 1,701 | 892 | 6,214 |
| BEEFBUILDER | 763 | 780 | 939 | 961 | 1,763 | 973 | 6,179 |
| JACKSON | 701 | 921 | 1,043 | 1,082 | 1,747 | 684 | 6,178 |
| WVPB-AR-90-1 | 782 | 667 | 994 | 1,059 | 1,817 | 831 | 6,150 |
| TX R85-2 | 621 | 945 | 1,276 | 1,066 | 1,395 | 753 | 6,056 |
| GULF | 740 | 1,137 | 1,072 | 1,002 | 1,292 | 755 | 5,998 |
| WVPB-LM-AR-F-41 | 537 | 667 | 1,226 | 1,071 | 1,793 | 697 | 5,991 |
| OFI-AR-42 | 576 | 652 | 779 | 1,029 | 1,954 | 971 | 5,961 |
| FLORIDA 80 | 650 | 989 | 1,314 | 954 | 1,426 | 543 | 5,876 |
| MULTIGRAZER II | 526 | 588 | 915 | 979 | 1,872 | 891 | 5,771 |
| MULTIGRAZER II A | 564 | 474 | 838 | 1,047 | 1,913 | 888 | 5,724 |
| ETCO-9-88 | 581 | 869 | 1,157 | 913 | 1,399 | 656 | 5,575 |
| TETRA-GOLD | 407 | 384 | 752 | 928 | 1,850 | 976 | 5,297 |
| MAGNOLIA | 602 | 934 | 993 | 1,007 | 1,110 | 565 | 5,211 |
| CONCORD | 614 | 659 | 937 | 683 | 1,387 | 698 | 4,978 |
| TEST MEAN | 660 | 840 | 1,073 | 1,047 | 1,748 | 791 | 6,159 |
| C.V. (%) | 29 | 19 | 20 | 17 | 25 | 38 | 15 |
| L.S.D. (.10) | 227 | 185 | 259 | 212 | 522 | 353 | 1,067 |

PLANTED: OCTOBER 25, 1990.
 SOIL: CAHABA FINE SANDY LOAM.

TABLE 3. SEASONAL DRY MATTER YIELD OF RYEGRASS VARIETIES AT THE SAND MOUNTAIN SUBSTATION, CROSSVILLE, ALABAMA, 1991

| BRAND-VARIETY | ACRE YIELD BY HARVEST DATE | | | | | | SEASON TOTAL |
|------------------|----------------------------|------|------|------|-------|------|--------------|
| | 1/09 | 3/11 | 3/27 | 4/10 | 5/02 | 5/20 | |
| | LB. | LB. | LB. | LB. | LB. | LB. | LB. |
| SURRY | 1,380 | 511 | 814 | 623 | 1,400 | 648 | 5,376 |
| HI 124 | 1,118 | 440 | 585 | 787 | 1,647 | 714 | 5,291 |
| TX R85-2 | 1,211 | 616 | 691 | 505 | 1,513 | 673 | 5,209 |
| NUTRIBLEND | 1,294 | 510 | 619 | 632 | 1,450 | 609 | 5,114 |
| MARSHALL | 957 | 548 | 712 | 837 | 1,414 | 639 | 5,107 |
| WVPB-LM-AR-2 | 917 | 470 | 805 | 589 | 1,668 | 585 | 5,034 |
| FLORIDA 80 | 1,196 | 507 | 791 | 485 | 1,346 | 679 | 5,004 |
| RUSTMASTER | 1,170 | 570 | 735 | 510 | 1,314 | 696 | 4,995 |
| WVPB-AR-601 | 1,288 | 330 | 642 | 810 | 1,257 | 640 | 4,967 |
| MULTIGRAZER II A | 1,277 | 377 | 583 | 613 | 1,472 | 625 | 4,947 |
| MULTIGRAZER II | 1,244 | 267 | 528 | 717 | 1,300 | 810 | 4,866 |
| DALITA | 1,052 | 530 | 638 | 564 | 1,271 | 801 | 4,856 |
| GULF | 1,135 | 645 | 636 | 406 | 1,357 | 635 | 4,814 |
| JACKSON | 444 | 787 | 864 | 554 | 1,407 | 754 | 4,810 |
| WVPB-LM-AR-F-41 | 1,042 | 343 | 645 | 678 | 1,282 | 802 | 4,792 |
| TETRA-GOLD | 1,042 | 237 | 489 | 835 | 1,326 | 736 | 4,665 |
| OFI-LM-AR-42 | 630 | 652 | 792 | 537 | 1,376 | 593 | 4,580 |
| MAGNOLIA | 955 | 399 | 603 | 532 | 1,419 | 649 | 4,557 |
| BULLDOG | 970 | 515 | 676 | 486 | 1,333 | 567 | 4,547 |
| CONCORD | 1,224 | 298 | 428 | 545 | 1,314 | 679 | 4,488 |
| WVPB-AR-90-1 | 221 | 683 | 710 | 679 | 1,504 | 644 | 4,441 |
| WVPB-AR-90-300 | 369 | 672 | 734 | 488 | 1,349 | 585 | 4,197 |
| OFI-AR-42 | 437 | 551 | 658 | 517 | 1,182 | 730 | 4,075 |
| ETCO-9-88 | 948 | 308 | 604 | 458 | 1,075 | 643 | 4,036 |
| TETRABLEND 444T3 | 747 | 374 | 625 | 470 | 1,148 | 575 | 3,939 |
| BEEFBUILDER | 671 | 270 | 551 | 442 | 1,063 | 644 | 3,641 |
| OFI-AR-B7T | 257 | 460 | 620 | 466 | 1,102 | 633 | 3,538 |
| TEST MEAN | 933 | 477 | 658 | 584 | 1,344 | 666 | 4,662 |
| C.V. (%) | 25 | 30 | 13 | 18 | 14 | 17 | 8 |
| L.S.D. (.10) | 270 | 169 | 100 | 122 | 223 | 136 | 434 |

PLANTED : SEPTEMBER 20, 1990.
 SOIL: HARTSELLS FINE SANDY LOAM.

TABLE 4. SEASONAL DRY MATTER YIELD OF RYEGRASS VARIETIES AT THE
PIEDMONT SUBSTATION, CAMP HILL, ALABAMA, 1991

| BRAND-VARIETY | ACRE YIELD BY HARVEST DATE | | | | SEASON TOTAL |
|------------------|----------------------------|------|-------|-------|-----------------|
| | 1/15 | 2/12 | 3/22 | 5/08 | |
| | LB. | LB. | LB. | LB. | LB. |
| MARSHALL | 225 | 258 | 1,186 | 3,873 | 5,542 |
| BULLDOG | 302 | 437 | 1,160 | 3,344 | 5,243 |
| SURRY | 263 | 454 | 1,329 | 3,035 | 5,081 |
| RUSTMASTER | 387 | 404 | 1,067 | 3,199 | 5,057 |
| JACKSON | 221 | 261 | 958 | 3,476 | 4,916 |
| GULF | 342 | 386 | 885 | 3,246 | 4,859 |
| NUTRIBLEND | 293 | 287 | 924 | 3,329 | 4,833 |
| DALITA | 317 | 290 | 909 | 3,173 | 4,689 |
| TETRABLEND 444T3 | 263 | 259 | 819 | 2,811 | 4,152 |
| MAGNOLIA | 189 | 295 | 869 | 2,755 | 4,108 |
| MULTIGRAZER II | 216 | 205 | 877 | 2,393 | 3,691 |
| CONCORD | 208 | 284 | 872 | 2,046 | 3,410 |
| TEST MEAN | 269 | 318 | 988 | 3,057 | 4,632 |
| C.V. (%) | 33 | 32 | 18 | 19 | 13 |
| L.S.D. (.10) | 107 | 121 | 215 | 679 | 731 |

PLANTED: OCTOBER 31, 1990.

SOIL: CECIL CLAY LOAM.

TABLE 5. TOTAL DRY MATTER YIELD OF RYEGRASS VARIETIES,
1991, AND TWO- AND THREE-YEAR AVERAGES, GULF
COAST SUBSTATION, FAIRHOPE, ALABAMA

| BRAND-VARIETY | DRY MATTER/ACRE | | |
|------------------|-----------------|--------------------------|--------------------------|
| | 1991 | 2-YR. AV. (1990-1991) | 3-YR. AV. (1989-1991) |
| | LB. | LB. | LB. |
| RUSTMASTER | 8,456 | 8,557 | 7,522 |
| JACKSON | 8,130 | 8,340 | 7,428 |
| NUTRIBLEND | 8,321 | 8,262 | 7,252 |
| GULF | 7,906 | 7,925 | 7,174 |
| SURRY | 7,644 | 7,911 | 7,129 |
| MARSHALL | 8,911 | 8,447 | 7,084 |
| MAGNOLIA | 7,442 | 7,340 | 6,740 |
| DALITA | 7,915 | 7,825 | 6,480 |
| WVPB-LM-AR-F-41 | 7,877 | 8,005 | - |
| WVPB-LM-AR-2 | 7,582 | 8,004 | - |
| OFI-AR-42 | 8,744 | 7,916 | - |
| TETRABLEND 444T3 | 7,887 | 7,718 | - |
| MULTIGRAZER II | 7,787 | 7,689 | - |
| CONCORD | 7,551 | 7,630 | - |
| WVPB-AR-601 | 7,268 | 7,463 | - |
| ETCO-9-88 | 6,928 | 6,714 | - |
| MONDORA | 8,204 | - | - |
| PENNPLOID V | 8,032 | - | - |
| WVPB-LM-AR-F-44 | 7,779 | - | - |
| MULTIMO | 7,654 | - | - |
| EQUIPE | 7,615 | - | - |
| OFI-88-LM-B7T | 7,590 | - | - |
| TETRAGOLD | 7,546 | - | - |
| TETRABLEND 10 | 7,237 | - | - |
| MULTIGRAZER I | 7,124 | - | - |
| LD 2810 | 6,783 | - | - |
| LM 2881 | 6,701 | - | - |

TABLE 6. TOTAL DRY MATTER YIELD OF RYEGRASS VARIETIES,
1991, AND TWO- AND THREE-YEAR AVERAGES, PLANT
BREEDING UNIT, TALLASSEE, ALABAMA

| BRAND-VARIETY | DRY MATTER/ACRE | | |
|-------------------|-----------------|--------------------------|--------------------------|
| | 1991 | 2-YR. AV. (1990-1991) | 3-YR. AV. (1989-1991) |
| | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> |
| RUSTMASTER | 8,782 | 7,689 | 6,658 |
| MARSHALL | 8,355 | 7,414 | 6,620 |
| JACKSON | 8,551 | 7,365 | 6,509 |
| NUTRIBLEND | 7,919 | 7,249 | 6,283 |
| SURRY | 8,029 | 7,160 | 6,283 |
| GULF | 8,356 | 7,177 | 6,104 |
| MAGNOLIA | 7,796 | 6,504 | 5,837 |
| DALITA | 6,399 | 6,392 | 5,429 |
| WVPB-LM-AR-2 | 8,738 | 7,648 | - |
| OFI-AR-42 | 8,677 | 7,319 | - |
| TETRA BLEND 444T3 | 8,042 | 7,128 | - |
| WVPB-AR-601 | 7,162 | 6,990 | - |
| WVPB-LM-AR-F-41 | 7,190 | 6,591 | - |
| MULTIGRAZER II | 6,892 | 6,332 | - |
| CONCORD | 7,183 | 6,081 | - |
| ETCO-9-88 | 6,441 | 6,008 | - |
| TETRAGOLD | 8,118 | - | - |
| PENNPLOID V | 7,969 | - | - |
| WVPB-LM-AR-F-44 | 7,694 | - | - |
| MONDORA | 7,530 | - | - |
| TETRA BLEND 10 | 7,472 | - | - |
| MULTIMO | 6,912 | - | - |
| MULTIGRAZER I | 6,720 | - | - |
| OFI-88-LM-B7T | 6,391 | - | - |
| LM 2881 | 6,333 | - | - |
| EQUIPE | 6,324 | - | - |
| LD 2810 | 6,261 | - | - |

TABLE 7. TOTAL DRY MATTER YIELD OF RYEGRASS VARIETIES,
1991, AND TWO- AND THREE-YEAR AVERAGES, SAND
MOUNTAIN SUBSTATION, CROSSVILLE, ALABAMA

| BRAND-VARIETY | DRY MATTER/ACRE | | |
|------------------|-----------------|--------------------------|--------------------------|
| | 1991 | 2-YR. AV. (1990-1991) | 3-YR. AV. (1989-1991) |
| | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> |
| MARSHALL | 4,609 | 4,858 | 4,888 |
| NUTRIBLEND | 3,745 | 4,430 | 4,624 |
| DALITA | 3,714 | 4,285 | 4,615 |
| SURRY | 4,148 | 4,762 | 4,583 |
| RUSTMASTER | 4,044 | 4,520 | 4,428 |
| JACKSON | 4,084 | 4,447 | 4,400 |
| GULF | 3,674 | 4,244 | 4,098 |
| MAGNOLIA | 3,661 | 4,109 | 3,919 |
| WVPB-LM-AR-2 | 4,060 | 4,547 | - |
| MULTIGRAZER II | 3,704 | 4,285 | - |
| WVPB-AR-601 | 3,502 | 4,235 | - |
| WVPB-LM-AR-F-41 | 3,410 | 4,101 | - |
| OFI-AR-42 | 4,079 | 4,077 | - |
| CONCORD | 3,459 | 3,974 | - |
| TETRABLEND 444T3 | 3,091 | 3,515 | - |
| ETCO-9-88 | 2,736 | 3,386 | - |
| MONDORA | 4,257 | - | - |
| MULTIMO | 3,851 | - | - |
| LD 2810 | 3,765 | - | - |
| WVPB-LM-AR-F-44 | 3,638 | - | - |
| LM 2881 | 3,403 | - | - |
| OFI-88-LM-B7T | 3,371 | - | - |
| TETRAGOLD | 3,343 | - | - |
| EQUIPE | 3,196 | - | - |
| MULTIGRAZER I | 3,142 | - | - |
| PENNPLOID V | 3,085 | - | - |
| TETRABLEND 10 | 2,834 | - | - |

TABLE 8. THREE-YEAR AVERAGE SEASONAL DISTRIBUTION OF RYEGRASS VARIETY FORAGE PRODUCTION, GULF COAST SUBSTATION, FAIRHOPE, ALABAMA, 1989-1991

| BRAND-VARIETY | SEASONAL FORAGE YIELD/ACRE | | | | TOTAL |
|---------------|----------------------------|------------|-----------------|----------------|------------|
| | AUTUMN | WINTER | EARLY SPRING | LATE SPRING | |
| | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> |
| RUSTMASTER | 600 | 2,178 | 3,385 | 1,359 | 7,522 |
| JACKSON | 382 | 2,068 | 3,317 | 1,661 | 7,428 |
| NUTRIBLEND | 435 | 2,120 | 3,369 | 1,328 | 7,252 |
| GULF | 463 | 2,305 | 3,241 | 1,165 | 7,174 |
| SURRY | 537 | 1,849 | 3,208 | 1,535 | 7,129 |
| MARSHALL | 565 | 2,077 | 3,321 | 1,121 | 7,084 |
| MAGNOLIA | 507 | 2,049 | 3,063 | 1,121 | 6,740 |
| DALITA | 446 | 1,768 | 3,095 | 1,170 | 6,480 |

TABLE 9. THREE-YEAR AVERAGE SEASONAL DISTRIBUTION OF RYEGRASS
 VARIETY FORAGE PRODUCTION, PLANT BREEDING UNIT,
 TALLASSEE, ALABAMA, 1989-1991

| BRAND-VARIETY | SEASONAL FORAGE YIELD/ACRE | | | | TOTAL |
|---------------|----------------------------|------------|-----------------|----------------|-------|
| | AUTUMN | WINTER | EARLY SPRING | LATE SPRING | |
| | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> | |
| RUSTMASTER | 778 | 1,311 | 3,349 | 1,220 | 6,658 |
| MARSHALL | 876 | 1,046 | 3,538 | 1,161 | 6,620 |
| JACKSON | 664 | 1,191 | 3,270 | 1,383 | 6,509 |
| NUTRIBLEND | 694 | 1,117 | 3,286 | 1,186 | 6,283 |
| SURRY | 743 | 1,191 | 3,123 | 1,226 | 6,283 |
| GULF | 762 | 1,368 | 2,789 | 1,186 | 6,104 |
| MAGNOLIA | 777 | 1,317 | 2,566 | 1,177 | 5,837 |
| DALITA | 572 | 814 | 3,074 | 968 | 5,429 |

TABLE 10. THREE-YEAR AVERAGE SEASONAL DISTRIBUTION OF RYEGRASS VARIETY FORAGE PRODUCTION, SAND MOUNTAIN SUBSTATION, CROSSVILLE, ALABAMA, 1989-1991

| BRAND-VARIETY | SEASONAL FORAGE YIELD/ACRE | | | | TOTAL |
|---------------|----------------------------|------------|-----------------|----------------|-------|
| | AUTUMN | WINTER | EARLY SPRING | LATE SPRING | |
| | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> | <u>LB.</u> | |
| MARSHALL | 319 | 572 | 2,221 | 1,776 | 4,888 |
| NUTRIBLEND | 431 | 505 | 1,932 | 1,756 | 4,624 |
| DALITA | 351 | 241 | 1,933 | 2,091 | 4,615 |
| SURRY | 460 | 564 | 1,997 | 1,562 | 4,583 |
| RUSTMASTER | 390 | 579 | 1,919 | 1,540 | 4,428 |
| JACKSON | 148 | 637 | 2,029 | 1,585 | 4,400 |
| GULF | 378 | 683 | 1,661 | 1,375 | 4,098 |
| MAGNOLIA | 318 | 498 | 1,652 | 1,451 | 3,919 |

