

TEXAS A&M UNIVERSITY - Dr. Garold L. Horst
- Principal Investigator

Developing Salt, Drought and Heat
Resistant Turfgrasses for Minimal
Maintenance

1986 Grant - \$15,000 [third year
of support]

Research accomplished:

1. Completed planned evaluation of 40 St. Augustinegrass germplasm entries.
2. Continued refinement of the new technique for growth and development evaluation of multiple germplasm entries grown under salt stress conditions.
3. Continued reception and increase of 28 bermudagrasses, 7 bentgrasses, 74 Buffalograsses, 3 Paspalums, and 78 zoysiagrasses.

Current Research:

1. Vegetative material of 29 Buffalograss germplasm entries are being evaluated for salt resistance in the new greenhouse facility.
2. Pilot studies on vegetative establishment methods for evaluating zoysiagrass vegetative material are still in progress.

Research Planned 1986/1987:

1. Complete evaluation of Buffalograss germplasm [May, 1987]. Expect to receive additional Buffalograss germplasm entries from Nebraska this fall.
2. Initiate zoysiagrass evaluation [March, 1987].
3. Initiate evaluation of Paspalum germplasm for salt resistance [March, 1987].
4. Continue accumulation of bentgrass and bermudagrass germplasm and expand cooperation with New Mexico and Oklahoma bermudagrass programs.
5. Begin to proto-type long term salt stress growing techniques for further greenhouse and field evaluations on germplasm which exhibited reasonable salt resistance [May, 1987].