

tion of the Everglades peat area is given in a previous publication (6)² with special reference to climatic factors in their relation to growth of grasses. A number of varieties are proving themselves excellent for grazing on peat lands where the water table is controlled by means of pumps. Considerable experimentation is being continued with these pasture grasses from which results will be published later. Some references to them are contained in the report by Kidder and Kirk (2) on cattle feeding.

In these early tests various grasses and legumes were grown in small test plots which were fertilized with an 0-6-12 mixture at the rate of 500 pounds per acre. An application of copper sulfate at the rate of 50 pounds per acre was mixed with the fertilizer.

PLANT SPECIES TESTED

The plants tested and referred to in this bulletin are listed as follows: Dallis grass, *Paspalum dilatatum* Poir.; carpet grass, *Axonopus compressus* (Swartz) Beauv.; centipede grass, *Eremochloa ophiuroides* (Munro) Hack.; Para grass, *Panicum purpurascens* Raddi; Napier grass, *Pennisetum purpureum* Schum.; Bahia grass, *Paspalum notatum* Flügge; St. Augustine grass, *Stenotaphrum secundatum* (Walt.) Kuntze; Carib grass, *Eriochloa polystachya* H. B. K.; Sudan grass, *Sorghum vulgare sudanese* (Piper) Hitchc.; *Andropogon* sp.; *Saccharum* sp.; maiden cane, *Panicum hemitomon* Schultz; woolly-finger grass, *Digitaria eriantha* Steud.; molasses grass, *Melinis minutiflora* Beauv.; Guatemala grass, *Tripsacum laxum* Nash; Reed canary grass, *Phalaris arundinacea* L.; redtop, *Agrostis alba* L.; Guinea grass, *Panicum Maximum* Jacq.; Vasey grass, *Paspalum urvillei* Steud.; alfalfa, *Medicago sativa* L.; white clover, *Trifolium repens* L.; red clover, *Trifolium pratense* L.; alsike clover, *Trifolium hybridum* L.; hairy vetch, *Vicia villosa* Roth.; common vetch, *Vicia sativa* L.; *Lespedeza* sp.; bur clover, *Medicago arabica* (L.) All.; sweet clover, *Melilotus alba* Des.; soybean, *Soja max* L.; cowpea, *Vigna sinensis* L. Endl.; and Tangier pea, *Lathyrus tingitanus* L.

ANALYSIS OF PLANTS

Table 1 records the organic analyses of the grasses that established themselves readily and that grow vigorously. Some of

² Italic figures in parenthesis refer to Literature Cited in the back of this bulletin.