[記事](研究発表会要旨)Physidogical and Eodogical Studies on Contrd of Perennial Weed Panicum repens L. : 1.Effect of Three Different Types of Okinawan Soil on Growth of Torpedograss (P anicumrepens L..)

第11回研究発表会　講演要旨

1. Physiological and Ecological Studies on Control of Perennial Weed Panicum repens L.

1. Effect of Three Different Types of Okinawan Soil on Growth of Torpedograss (Panicumrepens L.)

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Objective:

To determine the effect of three different types of soil on growth of Torpedograss (Panicum repens L.).

Materials and Methods:

Grey soil, Redish soil and Red soil were used in this experimentand each was replicated15 times. Five sive single noded rhizome cuttings were planted in wagner pot of 1／2000a. First, data were subjected to the germination test. Next, one weed in each pot was allowed to grow and remaining were pulled out for following growth test. No fertilizers and chemicals were used for maintaining the purity of soils.

Results and discussion:

The earliest and the highest bud germination of 42.6% was obtained from the Red soil followed by Redish soil of 33.3%, while late and the lowest of 25.3% bud germination was obtained from the Grey soil. The earliest tillering, the highest weed population, growth of rhizome and the sifnificantly highest dry weight of shoot and root were obtained from the Grey soil follwed by Redish soil. On the other hand, a completeadverse root-shoot ratio was recorded from the study. The total growth and the dry weight production of weed were the highestin the Grey soil and the lowest in Red soil. This growth and production of weed were affected due to the physiological and chemical properties of different soils.