Contents

Research Papers

TSUTSUMI, M., M. SHIYOMI and S. TAKAHASHI  Detecting the Spatial Pattern of a Plant Population in Grassland Vegetation at Varying Scales Using Binary Data 303-310

PAKIDING, W. and M. HIRATA  Canopy Dynamics in a Bahiagrass (Paspalum notatum Flügge) Pasture under Cattle Grazing: Structural components responsible for variations in herbage mass 311-316

OGURA, S., T. NAKAHARA and M. HIRATA  Spatial Distribution of Herbage Consumption by Cattle in a Bahiagrass (Paspalum notatum Flügge) Pasture Monitored Two-dimensionally 317-325

HIRATA, M., K. EGUCHI, T. TAKAYOSHI, S. OSAFUNE, K. OKIMATSU and N. YAMAMOTO  Response of Bahiagrass (Paspalum notatum Flügge) Sward to Cutting Height 4. Canopy structure and light extinction 326-331

AIIBIHLA, Y., M. HANADA and M. OKAMOTO  Nitrogen Digestion in the Rumen and Small Intestine of Steers Grazing Orchardgrass and Meadow Fescue Pastures 332-339

NISHIDA, T., S. KIJOKAWA, Y. YOSHIURA, O. WATANABE, S. SHIBATA and N. KITAHARA  Effect of Temperature and Retention Time in Cattle Slurry on Weed Seed Viability 340-345

SAIGUSA, T., S. TEJIMA, Y. OGAWA and S. TAKAHASHI  Establishment of Kentucky Bluegrass (Poa pratensis L.) Pasture in Hokkaido. 1. Effect of seeding rate, some methods of seed bed preparation and trimming on germination and early growth of seedlings 346-351

SUDO, K., K. OCHAI and T. IKEDA  Effects of Herbage Mass, Nutritive Value of Herbage, Amount of Supplement Intake, Milk Yield and Species of Grass in the Pasture on Herbage Intake of Grazing Dairy Cows 352-357

Short Reports

TSUTSUMI, M., M. SHIYOMI, S. SATO and K. SUGAWARA  Relationship between the Spatial Heterogeneity of Plant Biomass and Biomass Available to Grazing Animals in a Grassland: A simulation 358-361

KIINDIGE, B.  Callus Induction and Plant Regeneration in Tall Wheatgrass (Thinopyrum ponticum (Podp.) Barkw & D.R. Dewey) 362-365

NAKAZAWA, R., Y. SATO, K. NARIKAWA, H. TAKENAGA and Y. MAEDA  Contribution of Glutathione to Salt-tolerance of Tall Fescue (Festuca arundinacea Schreb.) 366-368

Special Feature

New Potential and Benefit of the Utilization of Straws for Animal Production

GOTO, M.  Regional Establishment of Feed Processing of Food Industrial Residues Using Rice Straw 369-370

ENISHI, O.  Reevaluation on Feed Characteristics of Rice Straw 371-378

GOTO, M.  Feeding Effects of Rice Straw on Digestion in the Rumen of Fattening Beef Cattle Influenced by Rice Cooking Methods 379-391

YOSHIDA, N.  Alkali Treatment of Straws and its Utilization 392-397

Japanese Society of Grassland Science

c/o National Institute of Livestock and Grassland Science, 768 Senbonmatsu, Nishinasuno, Tochigi 329-2793, Japan

日本草地学会 329-2793 栃木県那須郡那須町野町千本松768 畜産草地研究所（那須）内