The purpose of this investigation was to determine (a) the percentage of certain weed seeds that would pass apparently uninjured through the digestive tract of farm animals, (b) the percentage of recovered seeds which were viable, and (c) the longevity of the seeds in fermenting manure.

The previous investigations which were reviewed do not include the percentage of seeds recovered from animals. Oswald (3) reports an average germination of 12.8% for various seeds based upon the

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2 Graduate student and Agronomist, respectively. Credit should be given to N. F. Petersen of the Department of Agronomy and Elva Norris, State Seed Analyst, for their helpful suggestions on the germination of the seeds, and to J. C. Russel for his constructive criticism of the manuscript.