

The Ecology of Sagebrush on the Glacial Outwash Plains  
in Grand Teton National Park

Darold Sabinske  
Botany Department  
University of Wyoming  
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During June and July of 1971 sampling was completed on the 21 sites which were established in the summer of 1970. In addition, there were ten new sites established. These ten were added in the low sagebrush, big sagebrush on alluvium, and big sagebrush-bitterbrush areas. This was done in order for there to be a more adequate sampling in each of these three types.

The 31 sites, 100 x 200 feet in size, were each sampled as follows:

1. Forty one-foot square, randomly placed quadrats were used to sample the understory species of plants with presence indicated for transitory species such as annuals, counts made on the more persistent species such as perennials, and percent cover on grass species, bare soil, pocket gopher activity, and clone forming species such as Antennaria.
2. Ten line transects spaced at 20-foot intervals were used to measure percent cover due to any shrub species present.
3. At four random places, except in the six sites sampled in the summer of 1970 when three random places were sampled in each site, soil samples were taken from 0-4 inches and 4-8 inches.

The data are presently undergoing analysis. The information obtained will be written up as a master's thesis at the University of Wyoming.

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