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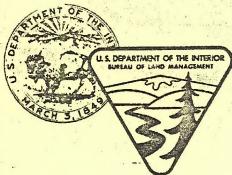
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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PORTLAND SERVICE CENTER
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TECHNICAL
Note 136

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(P-712a)

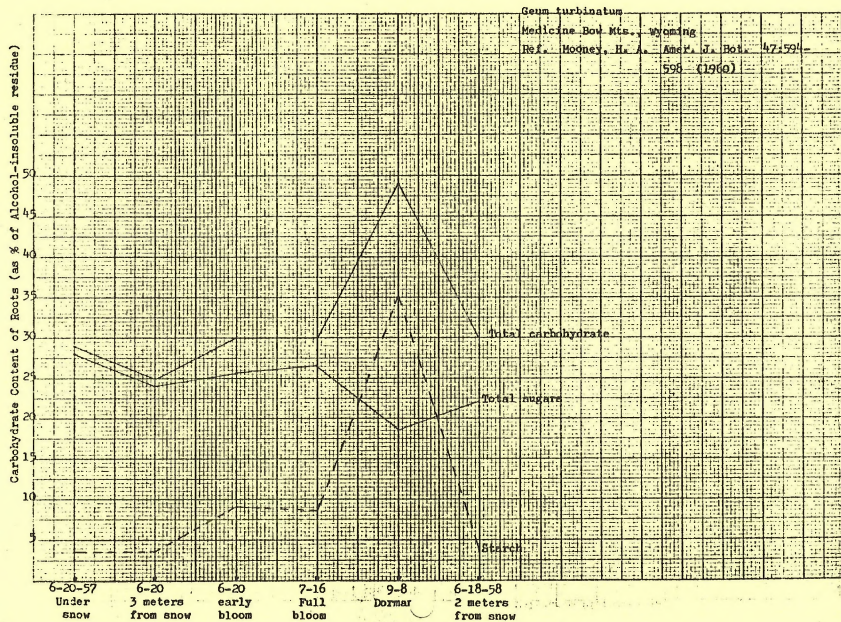


February 1, 1968

PHENOLOGY OF VARIOUS RANGE PLANTS

Phenological data of key forage plants is necessary for the proper planning and administration of grazing systems. Time is needed to accumulate data for most of our allotments.

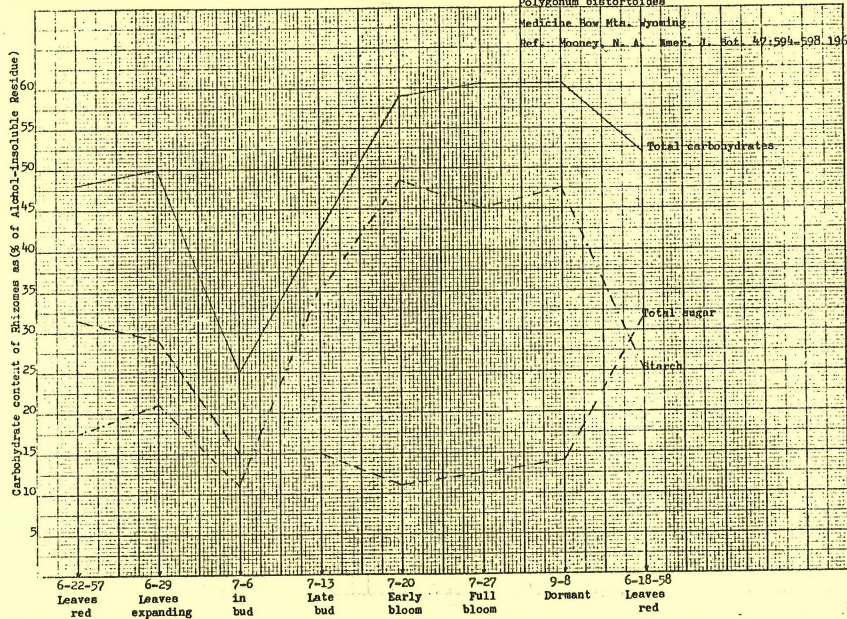
Research has provided data on a few plants over a wide range of conditions. This information is offered for your use if it can be applied to your area. All districts should be collecting this data for their key species to be used in allotment management planning. This material should be used only in the interim.



Polygonum bistortoides

Medicine Bow Mtn. Wyoming

Ref. Mooney, N. A. Amer. J. Bot. 47:594-598, 1960

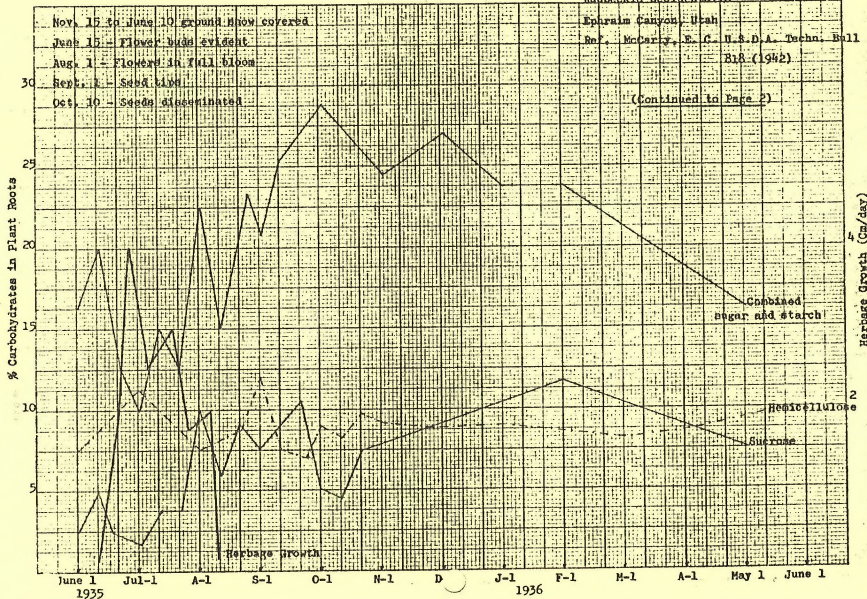


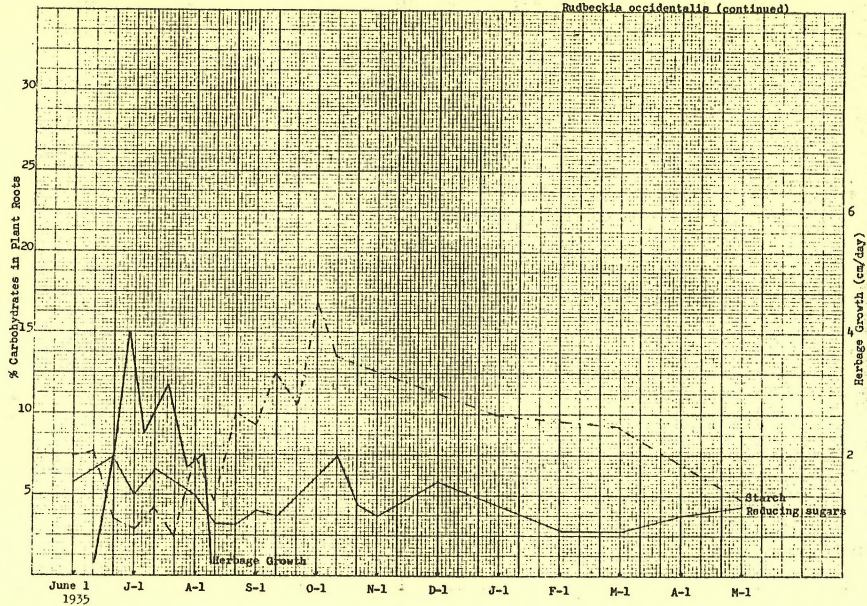
Budbeckia occidentalis

Epurain Canyon, Utah

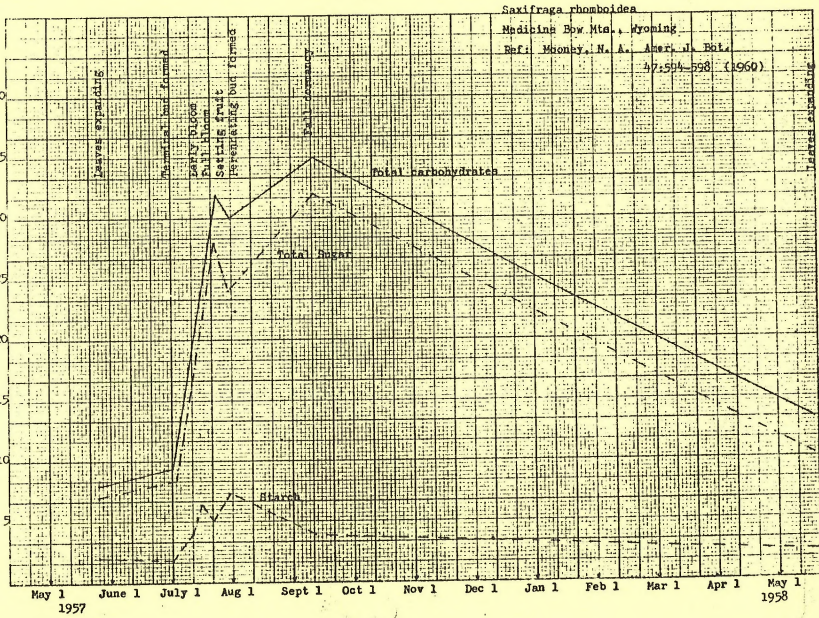
Prof. McCarty, E. C. U.S.D.A. Techn. Bull
B18 (1942)

(Continued in Page 2)



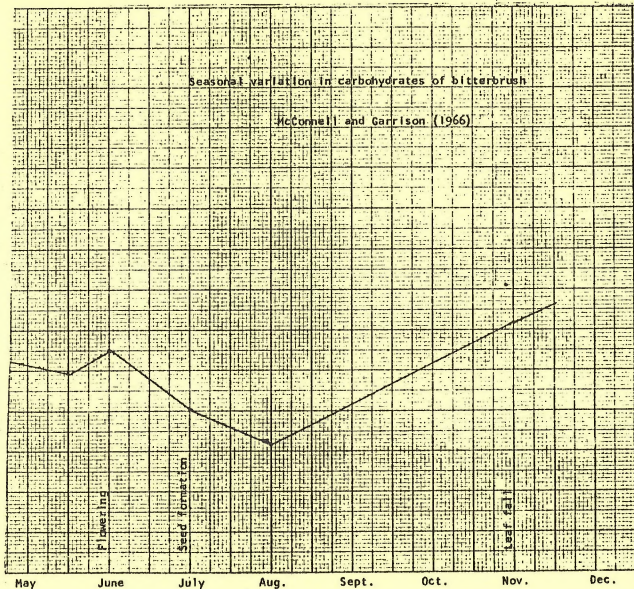


Carbohydrate content (as % of alcohol-insoluble residue) of roots



Seasonal variation in carbohydrates of bitterbrush

McConnell and Garrison (1966)

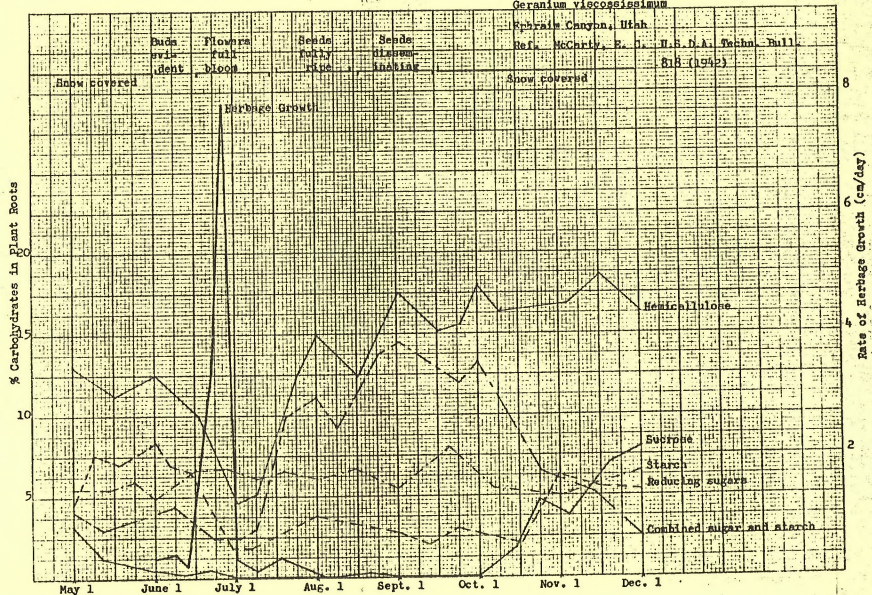


Geranium viscosissimum

Spring Canyon, Utah

Ref. McCarthy, E. D. U.S.D.A. Techn. Bull.

818 (1942)



8

6

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2

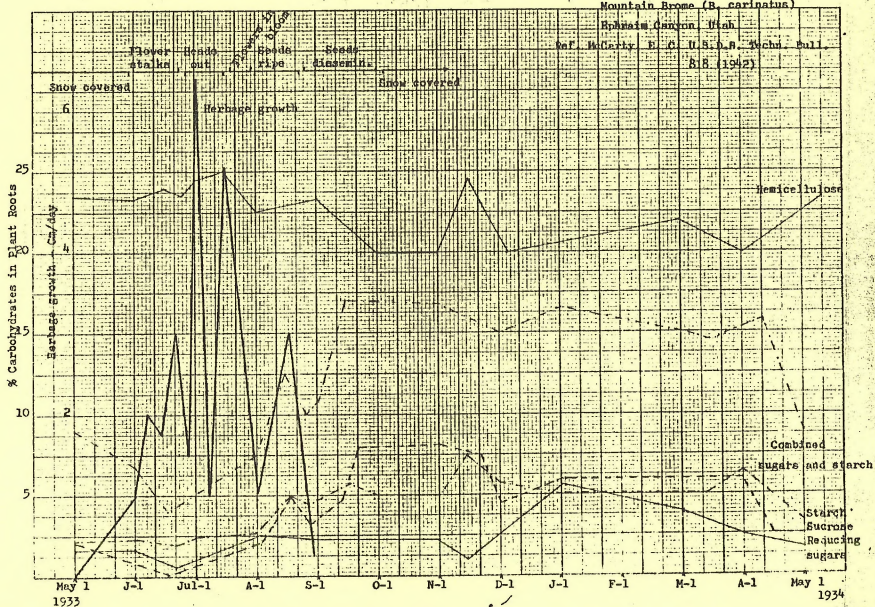
Rate of Herbage Growth (cm/day)

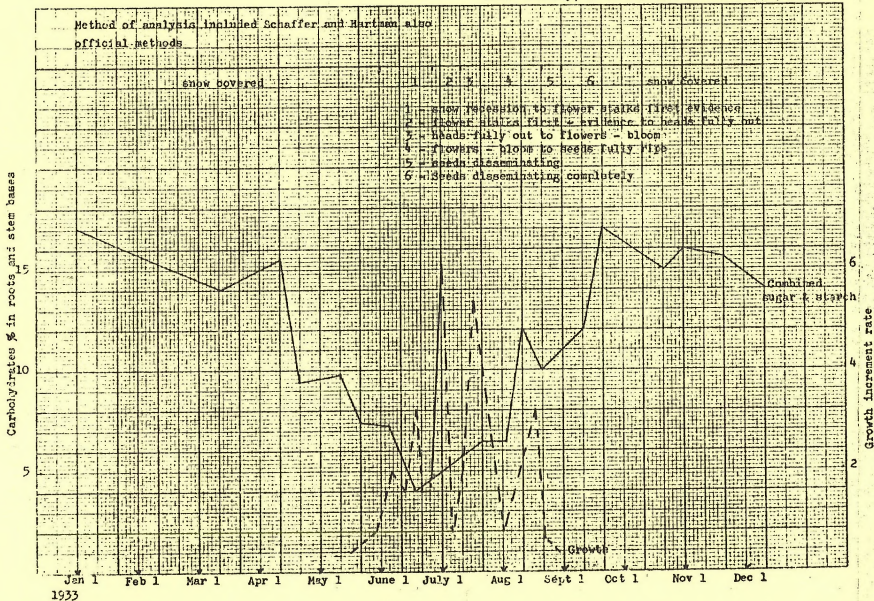
Mountain Brome (*B. carinatus*)

Epineiss Canyon Utah

Ref. McCarty E. C. U.S.D.A. Tech. Bull.

88 (1942)





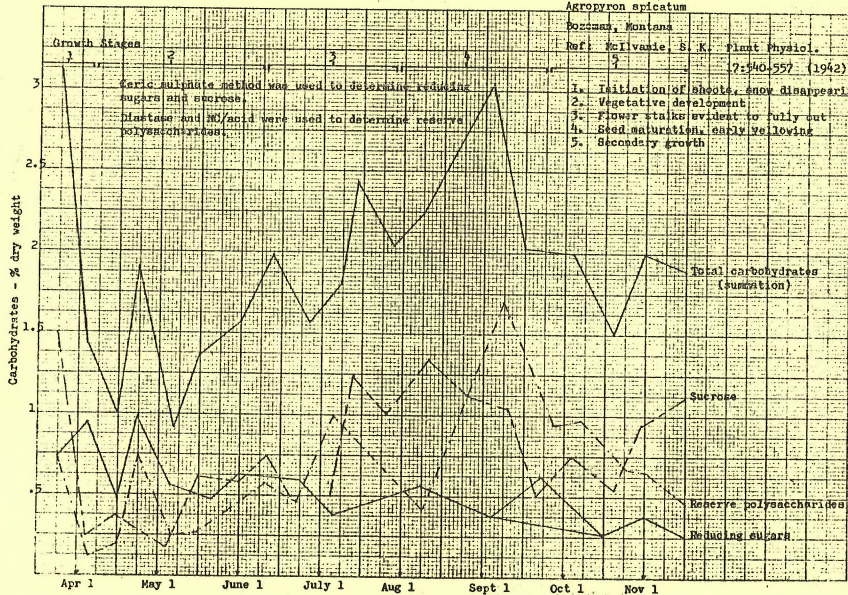
1933

Agropyron spicatum

Bozeman, Montana

Ref: McIlvaine S. K. Plant Physiol.
7 (1940-55) (1942)

1. Initiation of shoots, snow disappearing
2. Vegetative development
3. Flower stalks evident to fully out
4. Seed maturation, early yellowing
5. Secondary growth

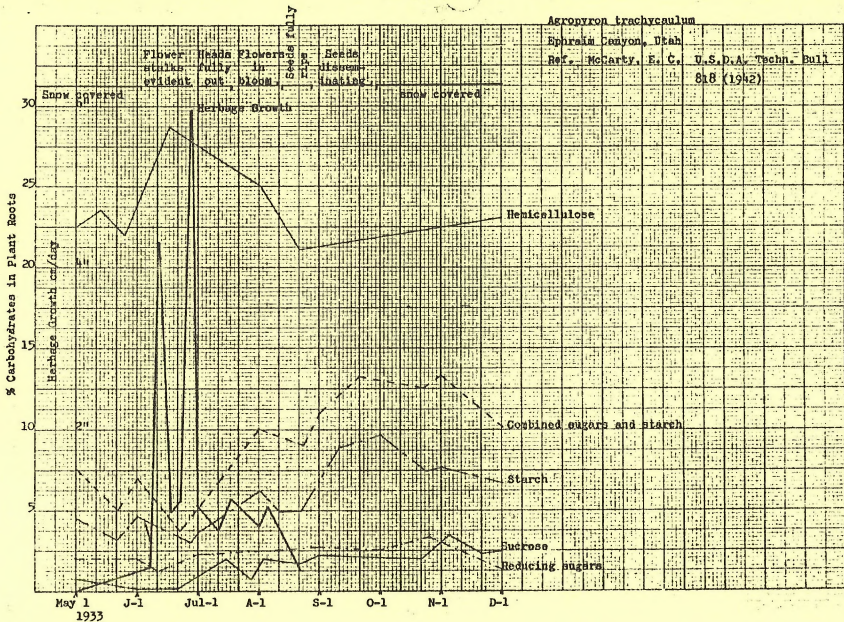


Agropyron trachycaulum

Spring Canyon, Utah

Ref. McCarty, E. C. U.S.D.A. Techn. Bull.

818 (1942)



Agropyron desertouem
 Squaw Butte Range, Oregon
 Ref: Hyder, D. N. and F. A. Sneva, Jour. Range Mgt.
 12:771-776, 1959.

