

Riparian Community Type Classification¹ in the Intermountain Region

Andrew P. Youngblood, Wayne G. Padgett, and Alma H. Winward²

Abstract.--Classification of riparian ecosystems in Idaho, Wyoming, and Utah into different community types, based upon similarities in floristic composition, provides a tool for resource management. Diagnostic keys that utilize conspicuous plant species provide for field identification. Environmental relationships, successional status, and management implications are discussed.

INTRODUCTION

Riparian ecosystems in the mountainous portions of Idaho, Wyoming, and Utah often form relatively narrow transition zones between aquatic and terrestrial ecosystems. These riparian zones have often been overlooked, or considered minor inclusions of the larger terrestrial systems. Current National Forest policy requires the recognition of the unique values of riparian ecosystems, and emphasizes their protection, management, and improvement during the planning and implementation of land and resource management activities (Peterson 1983). Classification of the riparian ecosystem provides the resource manager a means of inventory and delineation and a tool for refining management.

The Ecology Program of the Intermountain Region, USDA Forest Service, initiated fieldwork in 1979 leading to the development of riparian ecosystem classifications. Classifications in progress or already completed include portions of the Boise and Payette (Mata and Quetron 1983), Challis and Sawtooth (Tuhv and Jensen 1982), Targhee, Bridger-Teton, and Caribou (Youngblood and others, in press), and Wasatch-Cache, Uinta, and Ashley National Forests (Youngblood and others, in prep.).

The objectives of riparian ecosystem

classification include:

- 1--contribution to a broad Intermountain Region ecosystem classification effort;
- 2--description of characteristic geographic, topographic, edaphic, and floristic features of each type;
- 3--description of probable successional trends for each type; and
- 4--description of resource values and management opportunities for each type.

METHODS

Riparian communities are composed of plant species that require or tolerate free or unbound water. They are identified by a combination of soil characteristics and distinctive plant species composition that usually differ from upland plant communities. Communities for sampling were selected to reflect the apparent range of environmental and successional conditions of an area and the relative homogeneity of vegetation. Sample plots (50 m² in size) in riparian communities were established to avoid ecotones.

Data from sample plots included:

- canopy coverage of all vascular plant species, ocularly estimated;
- herbaceous standing crop (annual production);
- soil profile description for top meter;
- bedrock and geology;
- aspect, slope, relative position, and elevation;
- relationship to adjacent riparian and upland communities; and
- recent disturbances and successional relationships.

Within the last 6 years, over 1000 plots have been sampled in riparian communities in the mountainous portions of central and eastern Idaho, western Wyoming, and northern Utah. Fieldwork generally followed procedures developed

¹Paper presented at the first North American riparian conference, Riparian Ecosystems and their Management: Reconciling Conflicting Uses, [Tucson, Arizona, April 16-18, 1983].

²Andrew P. Youngblood is Area Ecologist and Wayne G. Padgett is Range Conservationist for the USDA Forest Service, Intermountain Region, stationed at the Forestry Sciences Laboratory, Logan, Utah; Alma H. Winward is Regional Ecologist for the Intermountain Region, stationed at Ogden, Utah.

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Proceedings, Land Classifications Based on Vegetation ,1989 **General Technical Report RM.** ,1995 General Technical Report RMRS ,1998 General Technical Report INT. ,1989 Pacific Northwest Ecoclass Codes for Seral and Potential Natural Communities Frederick C. Hall,1998 Boise National Forest (N.F.), Payette National Forest (N.F.) and Sawtooth National Forest (N.F.), Forest Plan Revision ,2000 **EPA-600/3** ,1989 Forest Plan Amendments Proposed to Facilitate Implementation of the 2009 Plan-Scale Wildlife Conservation Strategy, Phase 1: Forested Biological Community ,2010 Proceedings, Intermountain Forest Nursery Association Thomas D. Landis,1992 **Caribou-Targhee National Forest (N.F.), South Bear River Range Allotment Management Plan Revisions** ,2005 Aspen Community Types of the Intermountain Region W. F. Mueggler,1988 This vegetation classification is based upon existing community structure and composition in the aspen dominated forests of the Intermountain Region of the Forest Service The 56 community types occur within eight tree cover types A diagnostic key using indicator species facilitates field identification of the community types Vegetational composition productivity and successional status are included Tables provide detailed comparisons of community types The classification and descriptions are based upon field data from over 2 100 aspen stands scattered over southeastern Idaho western Wyoming Utah and Nevada Humboldt-Toiyabe National Forest (N.F.), Martin Basin Rangeland Project ,2005 **Great Basin/desert and Montane Regional Wetland Functions** J. Henry Sather,1990

Vegetation science applications for rangeland analysis and management P.T. Tueller,2012-12-06 Natural grasslands pastures and meadows are among the vegetation types most frequently investigated with phytosociological methods This was one of the reasons why volume 13 Application of vegetation science to grassland husbandry and agriculture edited by W Krause appeared as one of the first volumes of this handbook It appeared under the chief editorship of Prof R Tiixen and in his time main emphasis of the handbook was placed on Ziirich Montpellier methods and the European vegetation When we redesigned the handbook we felt the need to include other methods and aims of grassland analyses as well as a more global coverage of grasslands Especially the natural dry and semidry areas of the world needed to be covered was very fortunate in getting Prof Tueller of the University of Reno I Nevada as an editor for this volume He and the colleagues he motivated to compile volume 14 on Application of vegetation science to rangeland analysis and management have created a truly global coverage of the topics interesting for vegetation analyses in natural grasslands Since volume 13 covered the problems of anthropogenically created grasslands this topic was not expressly treated in order to avoid duplication For the same reason no specific attempt was made to get more papers from Europe and the temperate forest region in general The cooperation with Dr Tueller has been very rewarding for me General Technical Report PNW-GTR ,1997 The Douglas-fir/ninebark Habitat Type in Central Idaho Robert Wilbur Steele,1989 **PTIPS Database Applications Users Guide and Reference Manual** ,1996 **Proceedings-Symposium on Ecology and Management of Riparian Shrub Communities** ,1992

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Rocky Mountains Regional Plan Standards and Guidelines ,1983

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