



Environmental Effects Of Forest Residues

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Environmental Effects of Forest Residues Management in the Pacific Northwest Owen P. Cramer, 1974 Forest land generally produces considerable woody material other than that which is harvested as timber needed for recycling of nutrients to the soil or for sheltering wildlife and young forest seedlings Excess forest residues both living and dead are often subject to treatment to reduce fire hazard to eliminate obstruction to use and protection of the forest and to remove unsightly accumulations of residue remaining after logging road construction or land clearing or from thinning and pruning The effects of these residues and of their treatment are frequently important generally unmeasured and are only poorly known In this compendium 27 research scientists have summarized the present state of knowledge of the effects of forest residues and residue treatments on the components of the forest environment soil water air fire scenery plant and forest growth animal habitat insects and disease In addition they have questioned some current practices and have identified areas for research attention where current knowledge is lacking *Environmental Effects of Forest Residues Management in the Pacific Northwest* Owen P. Cramer, 1974 **Forest Residues in Hemlock-spruce Forests of the Pacific Northwest and Alaska** Robert H. Ruth, A. S. Harris, 1975 The forest manager must balance all the interacting and often conflicting factors influencing residue management and decide on the best course of action He needs to determine optimum volume size and arrangement of residues to leave on an area after logging then to select the harvesting methods and residue management alternatives that best provide these conditions Cramer 1974 summarized environmental effects of forest residues management for major forest types in the Pacific Northwest but types of treatment were not listed and only minor attention was given to hemlock spruce forests Residue management guidelines have been prepared for Oregon and Washington Pierovich et al 1975 but the hemlock spruce type is not discussed as a separate entity Alaska is not included in either report This report provides a detailed look at residue management throughout the north Pacific coastal fog belt including Oregon Washington British Columbia and Alaska The approach is a general look at forest residues as part of the ecosystem then a closer look at dead and decaying material after logging considering fire hazard and the silvicultural physical chemical and esthetic effects of this material Residue treatments are described evaluated and recommended The report is intended to provide an improved scientific framework for management decisions The coastal environment is more moist than other parts of the Pacific Northwest Generally fire danger is low and the need for residue treatment to reduce fire hazard is limited to special situations Northward into Alaska increasing summer precipitation relegates fire danger to a subordinate management problem Hemlock spruce residue volumes may range up to 250 tons per acre 560 metric tons per hectare when an old growth timber stand is defective and has a high proportion of western red cedar but volumes may be less than 50 tons per

acre 112 metric tons per ha with more complete utilization of sound young timber The trend is to less residue volume as defective timber is replaced by vigorous young stands and utilization improves Residues often dominate the post logging environment and are a major factor influencing forest regeneration Fresh residue intercepts natural seed fall or aerially sown seed and prevents seedling establishment but later as it decays and with moisture present it becomes a suitable seed bed for hemlock and spruce Advance regeneration usually hemlock grows on decaying residue material and almost invariably is intermixed with fresh logging residue Its fate is determined by residue treatment When residue treatments expose mineral soil they influence species composition favoring several species These ecological relationships between forest residues and conifer seedlings can be used by forest managers to influence density and species composition of the new timber stand A common problem in hemlock spruce is too many seedlings When advance regeneration is prolific harvesting plans and residue treatments should be designed to destroy some of the seedlings Overstocking with post logging regeneration can be reduced if the logging operation is planned so that fresh slash covers an appropriate portion of suitable seed beds In special situations individual factors carry heavy weight in residue management decisions For soils with high erosion potential a protective mantle of organic material should be left At least the small residue material should be left on nutrient deficient soils to add to the nutrient capital Residue should be kept out of stream channels In Oregon and Washington broadcast burning of residues in heavy brush areas helps to control the brush and open up the area for planting Mistletoe infested seedlings should be classed as residue and destroyed as part of disease control programs Special attention should be given to residue management in recreation and scenic areas Large continuous areas of logging slash should be avoided because of fire hazard Smoke management plans should be followed Treatments are needed when residue volume is too great because the residue will interfere with seedling establishment and intensive management of the new stand USDA Forest Service

General Technical Report PNW ,1977 **Environmental Consequences of Timber Harvesting in Rocky Mountain Coniferous Forests** Intermountain Forest and Range Experiment Station (Ogden, Utah),1980 **Bibliography of Agriculture** ,1975 Forest Residues Management Guidelines for the Pacific Northwest John M. Pierovich,1975 Forest residues often require treatment to meet land management objectives Guideline statements for managing forest residues are presented to provide direction for achieving these objectives The latest research information and the best knowledge of experts in various land management disciplines were used to formulate these statements A unique keying system is provided for determining which guidelines apply to a particular management activity for a given site in a given location and within a given forest species association type **The Forest Ecosystem of Southeast Alaska** ,1974 Forest Service Research Accomplishments ,1975 **Management of Wildlife and Fish Habitats in Forests of Western Oregon and Washington: Appendices** ,1985 **Management of Wildlife and Fish Habitats in Forests of Western Oregon and Washington** ,1985 **Overstory Removal and Residue Treatments Affect Soil Surface, Air, and Soil Temperature**

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