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BIBLIOGRAPHY

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PACIFIC NORTHWEST FOREST SOILS PUBLICATIONS THROUGH 1955

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During the past ten years, interest and development of research in forest soils has grown steadily in the Pacific Northwest. Prior to 1946, no full-time work in forest soils was being done in the region. Today, both private and public land-management organizations employ forest soils research technicians. In addition, two colleges in the region offer instruction in forest soils through the graduate level.

Because of the growing volume of literature on the subject, need has been felt for a bibliography of forest soils writings resulting from research in the Pacific Northwest. Such a bibliography is desirable both as a check list and as a record of development within the regional forest soils field. The accompanying list has been compiled in response to this need. It includes all writings on Pacific Northwest forest soils research published through 1955.

To insure continuing value of the bibliography, a supplementary list will be issued at the end of each calendar year. Thus, an up-to-date record of forest soils research progress in the Pacific Northwest will be available.

^{1/} With the assistance of members of the Forest Soils Committee of the Douglas Fir Region.

BIBLIOGRAPHY OF PACIFIC NORTHWEST FOREST SOILS PUBLICATIONS
(THROUGH DECEMBER 1955)

- Austin, R. C., and Baisinger, D. H. Manual for forest soils evaluation. Crown Zellerbach Corporation. 24 p. 1950.
- _____. Some effects of burning on forest soils of western Oregon and Washington. Jour. Forestry 53(4): 275-280. 1955.
- Carmean, W. H. Site quality for Douglas-fir in southwestern Washington and its relationship to precipitation, elevation, and physical soil properties. Soil Sci. Soc. of Amer. Proc. 18(3): 330-334. July 1954.
- Forristall, F. F., and Gessel, S. P. Soil properties related to forest cover type and productivity on the Lee Forest, Snohomish County, Washington. Soil Sci. Soc. of Amer. Proc. 19: 384-389. 1955.
- Fowells, H. A., and Stephenson, R. E. The effect of burning on forest soils. Soil Science 38(3): 175-181. Sept. 1934.
- Gayle, W. B., and Gilgan, W. W. The effect of slash burning on germination and primary survival of lodgepole pine and Douglas fir. Univ. British Columbia Forest Club Res. Note No. 2, 3 pp. 1951.
- Gessel, S. P. Soil science and the forester. Univ. of Wash. Forest Club Quarterly 22(3): 3-12. 1948-1949.
- _____. Correlation between certain soil characteristics and site for Douglas-fir in northwestern Washington. Soil Sci. Soc. of Amer. Proc. 14: 333-337. 1950.
- _____, and Lloyd, W. J. Effect of some physical soil properties on Douglas-fir site quality. Jour. Forestry 48: 405-410. 1950.
- _____, Walker, R. B., and Haddock, P. G. Preliminary report on mineral deficiencies in Douglas-fir and western red cedar. Soil Sci. Soc. of Amer. Proc. 15: 364-369. 1951.
- Hale, C. E. Some observations on soil freezing in the Pacific Northwest. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 66, 17 p. 1950.
- _____. Further observations on soil freezing in the Pacific Northwest. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 74, 8 p. 1951.

- Hill, W. W., Arnst, Albert, and Bond, R. M. Method of correlating soils with Douglas-fir site quality. *Jour. Forestry* 46: 835-841. Nov. 1948.
- Isaac, L. A., and Hopkins, H. G. The forest soil of the Douglas fir region and changes wrought upon it by logging and slash burning. *Ecology* 18(2): 264-279. April 1937.
- Lemmon, Paul E. Factors affecting productivity of some lands in the Willamette Basin of Oregon for Douglas-fir timber. *Jour. Forestry* 53(5): 323-330. 1955.
- _____, Johnson, R. A., and Krauter, O. W. Site index curves for lodgepole pine in the pumice area of central Oregon. *Jour. Forestry* 53(8): 553-555. 1955.
- Lowry, G. L., and Youngberg, C. T. The effect of certain site and soil factors on the establishment of Douglas-fir on the Tillamook burn. *Soil Sci. Soc. of Amer. Proc.* 19: 378-380. 1955.
- Plair, T. B. The work of the forest soils committee of the Douglas-fir region. *Jour. Forestry* 48(2): 95-96. Feb. 1950.
- Powers, W. L. Characteristics of forest soils of the northwestern United States. *Soil Science* 34(1): 1-10. July 1932.
- _____, and Bollen, W. B. The chemical and biological nature of certain forest soils. *Soil Science* 40: 321-328. Oct. 1935.
- Sartz, R. S. Soil erosion on a fire-denuded forest area in the Douglas-fir region. *Jour. Soil and Water Cons.* 8(6): 279-281. 1953.
- Starr, W. A., et al. Evaluating and mapping mountain land features for forest management purposes. *Washington Agric. Expt. Sta. Station Circ. No. 271*, 22 p. illus. 1955.
- Steinbrenner, E. C. Mustard seeding on burned forest areas. *Weyerhaeuser Timber Company Forestry Bulletin*. 1954.
- _____. First year results from the use of Douglas fir transplants on severe sites in western Washington. *Weyerhaeuser Timber Company Research Note*. 1954.

Steinbrenner, E. C. The effect of repeated tractor trips on the physical properties of two forest soils in southwestern Washington. Weyerhaeuser Timber Company Res. Note. 1953. Also in Northwest Science 29(4): 155-159. 1955.

_____, and Gessel, S. P. The effect of tractor logging on physical properties of some forest soils in southwestern Washington. Soil Sci. Soc. of Amer. Proc. 19: 372-376. 1955.

Tarrant, R. F. First forest soil survey gives significant results. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 36, 4 p. Oct. 1947.

_____. A guide for forest soil examination in the Douglas-fir region. Pacific Northwest Forest and Range Expt. Sta. 32 pp. Dec. 1947, Rev. 1950.

_____. The role of organic matter as a source of nitrogen in Douglas-fir forest soils. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 48, 5 pp. Dec. 1948.

_____. A program of forest soils research for the Pacific Northwest. Northwest Science 23(2): 64-71. May 1949.

_____. Douglas-fir site quality and soil fertility. Jour. Forestry 47(9): 716-720. Sept. 1949.

_____. A preplanting forest soil survey. Jour. Forestry 48(2): 104-105. Feb. 1950.

_____. A relation between topography and Douglas-fir site quality. Jour. Forestry 48(10): 723-724. Oct. 1950.

_____. Soil moisture and the distribution of lodgepole and ponderosa pine. Pacific Northwest Forest and Range Expt. Sta. Res. Paper No. 8, 10 pp. 1953.

_____. Effect of heat on soil color and pH of two forest soils. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 90, 5 pp. 1953.

_____. Soil reaction and germination of Douglas-fir seed. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 105, 4 pp. 1954.

Tarrant, R. F. Effect of slash burning on soil pH. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 102, 5 pp. 1954.

_____, Isaac, L. A. and Chandler, R. F. Observations on litter fall and foliage nutrient content of some Pacific Northwest tree species. Jour. Forestry 49(12): 914-915. Dec. 1951.

_____, and Wright, E. Growth of Douglas-fir seedlings after slash burning. Pacific Northwest Forest and Range Expt. Sta. Res. Note No. 115, 3 pp. 1955.

Walker, R. B., Gessel, S. P., and Haddock, P. G. Greenhouse studies in mineral requirements of conifers: western red cedar. Forest Science 1(1): 51-60. 1955.

Wheeting, Lawrence C. Shot soils of western Washington. Soil Science 41: 35-45. Jan. 1936.

_____. Some forest-soil relationships. Northwest Science 12 (3): 63-67. Aug. 1938.

Youngberg, C. T. Some site factors affecting the success of reforestation and afforestation activities in the Willamette Valley foothills. Soil Sci. Soc. of Amer. Proc. 19: 368-372. 1955.

_____, and Austin, R. C. Fertility standards for raising Douglas-fir in forest nurseries. Jour. Forestry 52(1): 4-6. 1954.

_____, and Steinbrenner, E. C. Nursery soil research at the Forest Industries Nursery, Nisqually, Washington. Weyerhaeuser Timber Company Res. Note, 21 pp., mimeo. 1953.