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Research Note

UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICEU. S. DEPARTMENT OF AGRICULTURE
CULTURE

INTERMOUNTAIN FOREST & RANGE EXPERIMENT STATION OGDEN UTAH

No. 60

October 1958

STEREOGRAMS IN PONDEROSA PINE

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A new series of 39 stereograms prepared by the Intermountain Forest and Range Experiment Station illustrates ponderosa pine and accompanying species found in national forests of southern Idaho, Colorado, and the Black Hills of South Dakota. These stereograms (fig. 1) are the combined vertical and horizontal type explained in Research Note 36, "Combined Vertical and Horizontal Stereograms." They allow the user to study both aerial and ground views at the same orientation of the stereoscope.

Photo interpreters have found the photo data and measurements coupled with volumes from the plots measured on the ground of considerable value in controlling type mapping. The brief stand description and indication of soil, site, and age class have been planned to help forest managers.

The 39 stereograms in this new series cover a variety of conditions in stand size, density, age, and site. Many of them show stands having two or more age classes. Some illustrate the appearance of pole stands 20 years after thinning; others, the restocking of old burns and logged areas. Most of the stereograms have annotations for two plots. Although designed as training aids for new interpreters and reference material for more experienced men, these stereograms will prove useful to any forester desirous of increasing his familiarity with ponderosa pine.

These stereograms in ponderosa pine are available for:

Boise Experimental Forest, Idaho

- 1 stereogram, aerial photo scale 1:4,300
- 4 stereograms, aerial photo scale 1:14,000
- 4 stereograms, same as above, reduced to 1:20,000.

San Juan Forest, Colorado

- 11 stereograms, aerial photo scale variable 1:20,000.

Black Hills Forest, South Dakota

19 stereograms, aerial photo scale variable 1:20,000.

Arrangements to obtain 5 x 7 photo prints from the original negatives can be made through the Director, Intermountain Forest and Range Experiment Station, Ogden, Utah

Figure 1. Combined aerial and ground stereograms illustrating ponderosa pine in Idaho and Black Hills areas (next page).

AERIAL PHOTO STEREOGRAM

Loc.: Black Hills Forest
Custer,
South Dakota

Elev.: 6,200'

Photos:

Date: 10/54

Scale: 1:17,600

F.L. 8-1/4"

Flying ht.: 12,100'

Par. fac.: 3.7' per .001"

1. Ponderosa pine, small sawtimber, P9aMP
Tot. ht.: 60/20' Cr. dia. 14/6' Cr. cov. 5/45%
Vol. per A: 610 cu.ft. 2,200 bd.ft. Int'l Topo.site: Ridge top, slope 0-10%
Soil: Thin, residual, limestone Age cls: 2 (Keen) Site cls: VI (Meyer)
Stand: Scattered 12"-14" sawtimber over 6" poles and saplings.
2. Ponderosa pine, poles, P8P
Tot. ht.: 45/10' Cr. dia. 8/3' Cr. cov. 5/25%
Vol. per A: 120 cu.ft. Topo. site: Ridge top, slope 0-10%
Soil: Thin, residual, limestone Age cls: 1 (Keen) Site cls: VI (Meyer)
Stand: Scattered 6"-10" poles over poor sapling stand, old blowdown.

Forest Survey, IF&RES, U. S. Forest Service, Ogden, Utah

AERIAL PHOTO STEREOGRAM

Loc.: Boise Basin Expt.
Forest, Idaho City,
Idaho

Elev.: 4,600'

Photos:

Date: 7/56

Scale: 1:13,400

F.L. 8-1/4"

Flying ht.: 9,200' above datum

Par. fac.: 3.1' per .001"

1. Ponderosa pine, large sawtimber, P9bM
Tot. ht.: 123'(90-135) Cr. dia. 16' Cr. cov. 55%
Vol. per A: 5,300 cu.ft. 35,000 bd.ft.
Topo. site: Lower NW slope 35% Age cls: 3 (Keen) Site cls: III (Meyer)
Stand includes 18"-26" DBH, some poles and saplings, occasional Douglas-fir.
2. Ponderosa pine, poles, P8M
Tot. ht.: 37' (20'-45') Cr. dia. 8' Cr. cov. 45%
Vol. per A: 970 cu.ft.
Topo. site: Ridge top, slope 0-25% Age cls: 1 (Keen) Site cls: IV (Meyer)
Stand includes 6" and 8" poles with many saplings.

Forest Survey, IF&RES, U. S. Forest Service, Ogden, Utah