

INTERESTING EXPERIMENTS

Summary of Investigations Made on Weather Conditions by Forest Examiner Pearson at Fort Valley.

The great diversity of conditions as to climate within short distances in this section of the country is truly remarkable. The recent exhaustive report of Forest Examiner Pearson in charge of the experimental station at Fort Valley, will give the reader some idea of how radical a difference there is. In his report he concludes:

"The mean annual temperature for the year 1909 was 1.52 degrees C. (2.74 F.) higher in the forest than in the park, while the mean monthly temperature ranged from 0.2 degrees to 2.6 degrees C. (0.36 degrees to 4.68 degrees F.) higher in the forest than in the park. The difference between the monthly means is greater during the winter than during the summer. The higher mean temperature in the forest is due mainly to a reduction of the minima. The monthly maxima are slightly higher in the park than in the forest. The mean daily range for the year was 4.7 degrees C. (8.5 degrees F.) less in the forest than in the park.

To what extent the above conditions are due to the influence of the forest canopy upon radiation is a matter which demands further investigation. It is probable that the cold air drainage from the San Francisco Mountains and surrounding mesas constitutes another important factor. Even though it be conceded that the lower temperature in the park is due mainly to cold air drainage from the higher surrounding country, it is possible that the effect of this factor on the timbered areas is in turn modified by the forest canopy in deflecting the descending cold air currents. Moreover, the conditions in the Fort Valley park are not abnormal for the majority of parks in this region, for the reason that these parks are, with few exceptions, so situated as to receive the cold air drainage from the surrounding country.

The only appreciable influence of the forest upon precipitation is in its interference with the normal distribution of rain and snow on the ground. Considerable amounts of the rain and snow collected by the trees crowns are lost by evaporation. The snow usually lies deeper in the park than in the forest during the winter time, but it melts more gradually and remains on the ground later in the forest than in the park.

The available data on atmospheric moisture are not sufficient to es-

tablish any definite conclusions in regard to the influence of the forest upon this factor.

The wind movement in the forest during the year 1909 was only 52 per cent of that in the park.

The evaporation in the forest from July 1 to October 31, 1909 was only 70 per cent of that in the park.

The records for the edge of the forest indicate conditions of temperature, wind movement, and evaporation approaching very closely those of the park.

The silvicultural significance of the results of this study is: (1) that the parks in this region, because of their exposure to frost and excessive evaporation, are unfavorable to young forest growth; and (2) that in order to insure regeneration on present forest lands heavy cuttings must be avoided.

The Confection Den for ice cream and candies. tf.

Bad Train Hold-ups Caught.

The bad boy bandits who held up a train near Maricopa last week were captured after an automobile chase. They were without water nearly exhausted and did not put up any fight. They proved to be Ernest and Oscar Woodson, recently of Oklahoma. Both had worked around Phoenix for some time and appear to be green country boys.

A touch of rheumatism, or a twinge of neuralgia, whatever the trouble is, Chamberlain's Liniment drives away the pain at once and cures the complaint quickly. First application gives relief. Sold by all dealers.

Territorial News.

Joseph V. Walker was accidentally killed in a freight elevator in Richard's Bros. store in Prescott.

The Holbrook News was a yearling Friday May 13th—an unlucky day, but, the News does not show it.

Chow Pom, a Chinese restaurant keeper at Ash Fork, was robbed of \$65 in cash and a half bar of soap. It was all Pom had.

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Notice of Sale.

Notice is hereby given that in pursuance of an order of the Probate Court of the county of Coconino, territory of Arizona, made on the 14th. day of May A. D., 1910.



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in the matter of the Estate of John Boynton, deceased, the undersigned, C. O. Robinson, Administrator of said estate, will sell at public auction, subject to the approval of the court for cash, on Saturday the 4th day of June 1910, at eleven o'clock a. m., of said day, at the front door of the county court house, in Flagstaff, Arizona, in said county of Coconino, the following personal property to wit: all the range horses, exact number unknown, ranging under brands owned by said deceased.

C. O. ROBINSON, Administrator of the estate of John Boynton, deceased. Dated May 14, 1910. May 20 to 27.

Restoration To Entry of Lands In National Forest

Notice is hereby given that the lands described below, embracing 235 acres, within the Coconino National Forest, Arizona, will be subject to settlement and entry under the provisions of the homestead laws of the United States and the act of June 11, 1906 (34 Stat., 233), at the United States Land Office at Phoenix, Arizona, on June 30, 1910. Any settler who was actually and in good faith claiming any of said lands for agricultural purposes prior to January, 1 1906, and has not abandoned same, has a preference right to make a homestead entry for the lands actually occupied. Said lands were listed upon the applications of the persons mentioned below, who have a preference right subject to the prior right of any such settler, provided such settler or applicant is qualified to make homestead entry and the preference right is exercised prior to June 30, 1910, on which date the lands will be subject to settlement and entry by any qualified person. The lands are as follows: The NW $\frac{1}{4}$ of SW $\frac{1}{4}$, the N $\frac{1}{2}$ of SW $\frac{1}{4}$ of NW $\frac{1}{4}$, Sec. 8, T. 17 N., R. 6 E., G. and S. R. M., 60 acres, application of Joseph T. Farley, of Sedona, Arizona List 3-408. The N $\frac{1}{2}$ of NW $\frac{1}{4}$ of NW $\frac{1}{4}$, the W $\frac{1}{2}$ of NE $\frac{1}{4}$ of NW $\frac{1}{4}$, Sec. 35, T. 21 N., R. 2 E., 40 acres, application of George H. Barney, of Williams, Arizona List 3-423. The S $\frac{1}{2}$ of SW $\frac{1}{4}$ of NW $\frac{1}{4}$ of SW $\frac{1}{4}$, the SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of NW $\frac{1}{4}$ of SW $\frac{1}{4}$, the N $\frac{1}{2}$ of SW $\frac{1}{4}$ of SW $\frac{1}{4}$ of SW $\frac{1}{4}$, the NW $\frac{1}{4}$ of NW $\frac{1}{4}$ of SE $\frac{1}{4}$ SW $\frac{1}{4}$, the S $\frac{1}{2}$ of NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of SW $\frac{1}{4}$, the N $\frac{1}{2}$ of SW $\frac{1}{4}$ of SE $\frac{1}{4}$ of SW $\frac{1}{4}$, the NW $\frac{1}{4}$ of SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of SW $\frac{1}{4}$, the S $\frac{1}{2}$ of SE $\frac{1}{4}$ of SE $\frac{1}{4}$ of SW $\frac{1}{4}$, Sec. 2, T. 20 N., R. 7 E., 55 acres, application of John Woody, of Flagstaff, Arizona; List 3-425. The E $\frac{1}{2}$ of SE $\frac{1}{4}$, Sec. 4, T. 22 N., R. 8 E., 80 acres, application of Earl Brown, of Flagstaff, Arizona; List 3-447. S. V. PROUDFIT, Assistant Commissioner of the General Land Office. Approved April 5, 1910. FRANK PIERCE, First Assistant Secretary of the Interior. May 6 to 27. List 3-408-423-425-447.

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