

tonnage per life lost, while the Indian Territory has the largest percentage of deaths for the tonnage mined. The total number of men employed in the coal mines of the United States in 1901 was 485,544, who made an average of 216 working days, as compared with 448,581 men, with an average of 212 working days, in 1900. The distribution of this labor in 1901 was as follows: In the anthracite mines, 145,309 men, with an average working time of 196 days; in the bituminous mines, 340,235 men, with an average working time of 235 days.

*Forestry and Irrigation* gives details in regard to the seven new forest reserves which have been established recently by presidential proclamation. These include three new reserves in Arizona: The Mount Graham Forest Reserve, 118,600 acres in extent, located in Graham county; the Santa Catalina Forest Reserve of 155,520 acres, in Pima county, and the Chiricahua Forest Reserve, in Cochise county, of 169,600 acres in extent. In Montana two new reserves, the Madison Forest Reserve of 736,000 acres and the Little Belt Mountains Forest Reserve of 501,000 acres, have been established. The first-named reserve is in Madison and Gallatin counties, bordering on the western side of the Yellowstone National Park. The Little Belt Reserve is located in Meagher and Fergus counties. A large new reserve has also been set apart in New Mexico, to be known as the Lincoln Forest Reserve. It is 500,000 acres in extent and is located in Lincoln county. An unusually large reserve has just been set aside in Alaska, to be known as the Alexandria Archipelago Forest Reserve; it contains 4,506,240 acres. In addition to the foregoing new reserves, a number of changes have been made in the reserves already established. Lands have been added on the eastern side of the Yellowstone Forest Reserve, increasing its area by 24,960 acres. The Medicine Bow Forest Reserve, in Wyoming, has had recent additions made to the amount of 20,533 acres. The White River Reserve, in Colorado, has been decreased in area by 68,160 acres along the headwaters of the White and Yampa Riv-

ers. The Crater Lake National Park of 164,560 acres, which was established by Congress at its last session, reduces the size of the Cascade Forest Reserve, in Oregon, by 152,680 acres. The total area of all the forest reserves is now 58,850,925 acres. It is interesting to note that the total area of the United States, exclusive of island possessions, is 2,362,960,000 acres. Thus it will be seen that the forest reserves now amount to about one fortieth of the entire area of the United States. In square miles the area of the reserves is 91,954, or almost twice the size of Pennsylvania.

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#### UNIVERSITY AND EDUCATIONAL NEWS.

A REUTER telegram, states that, as the result of the investigations of a party of British educationalists who have been making inquiries in Canada, it has been decided to establish a training farm in connection with Berkhamstead School. A site has been selected between Calgary and Edmonton, in western Canada. Upon its success depends the opening of several other farms where British youths will receive training.

PROFESSOR R. S. SHAW, son of Professor Thomas Shaw, of the Minnesota College of Agriculture, has been elected professor of agriculture of the Michigan Agricultural College. Professor Shaw has been professor of agriculture in Montana.

MR. RAYMOND BURNHAM, graduated from Cornell University in '97, has been appointed professor of experimental engineering at the Armour Institute, Chicago. He is the son of the well-known astronomer, Professor S. W. Burnham.

DR. F. H. SAFFORD, formerly instructor in Harvard University and assistant professor in the University of Cincinnati, has been appointed instructor in mathematics in the University of Pennsylvania.

DR. WILLY WIEN, of Würzburg, has been called to the chair of physics at Leipzig, to succeed Professor Ludwig Boltzmann.

DR. O. SCHMIDT, professor of chemistry at Stuttgart, has retired.