

topic in the pre-suffrage days, and now, especially since her great chance line of business with varying degrees ted that she usually proves more than capable. The object of this article is not to speculate vaguely over feminine possibilities, but to set forth a bit of trenchant history in a manner that almost anyone could grasp; in short, to say that, no matter how much we might debate woman's place. few of us would consider a location on the crest of a high mountain as just the fitting position to install a helpless bit of delicate womanhood However, the United States forest

service has demonstrated the contrary. Away goes another set of prebetter begin to realize that woman is not so helpless as she has been painted in past decades. It has only taken in a manner that puts many of the mere men to shame, for today the virtually cornered the market when it comes to taking the heavy duty of ests of this section of the country from the fire evil.

Keen-Eyed Girls on Guard-

They are not serving, to any great they are doing duty as outposts in each summer to do battle with the heat hosts. Ensconced on the lonely peaks of Oregon, Washington, Idaho and Montana forests, miles from the nearest settler and without company of any kind save the forest denizens they stick to their posts and faithfully send in warnings of threatening dangers. Not only are these women alone, but they are confronted by dangers that would appal many an average male heart. Last summer was the first real year that women were placed on this important duty to any great extent, but their great success and faithful work has caused their employment in even greater numbers for the 1920 season

This year in the northwest forests there are fully a score of these women on guard on the high vertebrae of the continent's backbone, ceaselessly watching the immense wealth of timber that is so essentially needed by the world. While it is yet rather difnumber of them in the lookouts this and Montana. year. School teachers, college stu-

forest. Her head station was at Rose burg and her home is at Hoaglin. Mrs. F. A. McMillan, an instructor in so good, she is invading nearly every the Wenatchee (Wash.) high school, served at Devil's Knob, in the crater district of the Umpqua forest. Miss Dorothy and Miss Martha Andrews twin sisters, served in the Cascade forest, Miss Dorothy at Frissel Point and Miss Martha on Horse Pasture mountain. They could see each other with the aid of field glasses and when would communicate by means of their field telephone sets. Miss Dorothy is principal of schools at Wendling and Miss Martha taught at McKenzie Bridge, near where their stations were located. Both girls live at Eugene. Out of the Roseburg district was also Mrs. William George conceived notions, and everyone had of that city, who served on the Bohemian lookout. In the Cascade nationa forest in Oregon was Miss Nell Southworth, a student at the State university, who spent her summer vacation bury kept watch and ward on Mount Van Loof of Grants Pass, whose staguarding the great commercial for- tion was on Sanger Peak. Mrs. Cora mense cut can be continued indeftha Covert of Yocum was in the Fre-Lakeview, at the Dog Lake ranger station. Miss Gladys Murray of Spoelling labor of extinguishing the kane was in the Colville national forblazes when they once get started, but est on Columbia lookout station and Miss Mable McBain of Everett was the army that Uncle Sam recruits also on duty. Miss Nita Vogle served and women were at various points.

Most of these feminine guards, even after their first year of service and the experience that they had to unfurther taste of the work this summer and might be called hardened lines in the future. veterans of the army of protection. Some idea of the value of their work can be had from a short summary of the value of the forests of the north-

Forest Wealth Enormous.

Over twenty billions of dollars is enormous natural asset of the United less telephone, heliograph States has been, previous to the fall ficult to get any reports of their fifty billion board feet of timber, the main headquarters of the United work this season, the summary of last stand untouched by the lumbertheir last year's work is a revelation jack's ax in this great country of the flight is being directed. and even a superficial study of it ours, almost half the available supwill show why the forest service was ply of the nation, stands within the stand of virgin timber and to proso anxious to place even a greater borders of Oregon, Washington, Idaho tect human and animal life and prop-

dents, even home women have taken valued at from \$2 to \$4 a thousand of a few years ago. The situation advantage of this opportunity offered feet, depending on accessibility and reached such a dangerous stage durto serve their country in a heavy line esse of logging, the importance of the ing August last year that esvry avail- through the tangled woods and under- pitch saw our cabin on the top, a half few peaks that stood above the clouds of defense during their vacation pe- work can be understood. In the state able appliance that would ald had to brush by pack trains and men packriod and at the same time be paid of Oregon alone there are 17,000,000 be used. acres of merchantable timber and the Thanks to their preparedness in

Sourdough Lookout Serves a Large Area. tion properly attended to, this im Leland was stationed in the Deschutes initely. Huge fortunes are held by forest in Paulina Peak and Mrs. Ber- private owners in these forests and mont national forest, 30 miles west of ble with the government in the work. The economic loss when a single when it is stated that the ultimate on Indian Mountain and other girls rapidly nearing exhaustion the im the United States either denuded or perative need for conservation and every care in protection can readily be appreciated. The almost supermodern methods in vogue during the dergo, many of them harrowing for past season in the Oregon country delicate women, have returned for a seem to be but the pioneers for a much greater activity along similar

Airplanes manned by crews from get well under way, and report them headquarters. by radio to the control stations. On estimated as the ultimate potential the crest of the high mountains, with tained throughout the woods where necessary work. wealth of the immense virgin forests Mount Hood, Or., as the main station, of the Pacific Northwest by expert lookouts scan the timbered mounforesters and lumbermen, and this tains for smoke and report by wireof 1919, almost at the mercy of the messengers, carrier pigeons and radio vagaries of fire. Four hundred and sets keep the stations linked with States forest service here, from which

In their efforts to save this last erty, the armies of protection are

her ability to shoulder responsibilities | time on Winbury Butte. South in the | 000,000 feet, valued at \$40,000,000. For | to make an excellent showing in com- | out and investigate. Several times Siskiyou reserve Mrs. Nellie W. Mil- estry experts estimate that the cut parison with other regions of the the planes have arrived on the scene can be doubled, that is, raised to United States. In Minnesota alone so soon after a small fire has started women of the Pacific northwest have Emily, and in the same forest was 5,000,000,000 feet annually, and, if the 498 lives were lost and the property as to be able to locate the people Miss Edna Cornell, now Mrs. Cora forests are protected and reforestra- burned was valued at \$75,000,000, en- responsible for setting the blaze and tire towns in the woods being de- put the wardens on their trail. Nearly stroyed, including the fair-sized city always the planes return with chart of Cloquet.

Protection Pays Dividends. In the Pacific northwest, where the evelopment of forest fire fighting

has reached its highest stage. District Forester George H. Cecil has charge value of timber is estimated at 15 of the headquarters at Portland for cations verified and men on the job the forces in the states of Oregon, forest patrol has its headquarters at Eugene and is commanded by Major Albert B. Smith. In all cities throughout the lumber region from Puget

Large scale maps are located in the progress of existing fires, notations of fresh ones and the danger the battlefields of France patrol the zones are posted from a daily report immense sea of trees, spotting fires system. Patrols are ordered out in flames. before they have an opportunity to a similar manner as from an army tion of the importance of the timber

Central ranger stations are mainthe crews are held in readiness to points. During their enforced wait of their experiences first-hand. Mrs. half feet square and we existed from that. I had several pet deer that they are employed on work of a pre- McMillan says: signaling and telephone. Motorcycle ventive nature, such as building clearings to stop the progress of flames, trails for communication, building lookout stations and camps, Umpqua forest, on July 8, 1919, replied, when in the field, by a highly a picturesque trip, winding in and clear weather we could see for miles developed quartermaster department out on the narrow trail between the in every direction over those acres As this timber on the stump is making use of equipment undreamed Ration dumps are established as near huge trees and skirting around deep and acres of forest. On foggy mornthe fighting front as possible, and canyons. Finally we reached the ings when the canyons would be Mr. Bidwell was with me all the time the materials and food are carried spring and looking up nearly a half- filled with fog we were but one of the with the exception of nine nights

location and authentic information as to the size and seriousness of the blaze. This information, through the use of planes, phones, radio, observ ers and fast mesengers is very rapidly handled, and instead of it taking from one to five days to get lo times the stumpage value. With the major portion of the other forests of washington and the territory of ever ready fighters are often on their band took me to the nearest neigh-Alaska. The United States aerial way in as many hours under presbors, where he had been for vegetables. It was five miles and down-

Contrast between present day methhill all of the way, so it was not difods of forest fire fighting and those ficult going, but that first trip comin vogue in prior times is indeed a ing back I shall never forget. Mr. sound and the Columbia river to startling one. When the first fire- McMillan had to pull me most of the northern California, and inland to fighting appropriation was made by ways the Rocky mountains, are other air the state of Oregon about ten years ago it amounted to \$250, while the at our back door on the bank and same session of the legislature set shooting grey diggers, 75 feet below. the chief ranger's office and on these aside \$10,000 for coyote bounties. They did not realize the value of their climbed down and followed one of the timber and did not take sufficient trails through the timber for a ways. means to combat the menace or Since then public appreciaresources has forced fairly sufficient safeguards and appropriations for the having 22-inch plate-glass windows

extending entirely around the cabin. But let's have some of the women In the center of the room was a sta who were engaged on this duty tell tionary smoke finder two and one-

around the edges. Our bed swung up "We went to Devil's Knob, which is and the table dropped down and on located in southern Oregon, about two one corner was a knock-down and put miles from the Crater forest in the together government camp stove. clearing underbrush and removing turning August 29. It was my first at first was the numerous field mice deadfalls. On receipt of the alarm experience of packing in the moun- which visited us every night. We they are rushed as close to the fire tains. We had to pack nine miles up caught as high as 12 in one night. as possible in motors and then sup- a gradual incline, which was indeed and could look down upon their fleecy

"I was out there three weeks with- lining. Frequently the women lookouts re- out seeing another woman, and once eannot be exaggerated and indeed it annual cut for this state runs 2,500, this district, in 1918 they were able port smoke and the patrol planes go during that time the packer brought and report them to the ranger station

near us. "Should anyone spend a summer that way I advise them not to attempt to wash dishes on the stove as an electrical storm approaches, as I did, and receive a shock from the water. That is a good time to put off

Honeymoon Site Ideal.

"Finally I would say for those who ove the out-of-doors life and living next to nature, it is an excellent place to spend one's boneymoon

Mrs. Minerva Bidwell of Hoaglin, who spent last summer in the Ump qua forest, says;

In the first place, the reason I happened to have the position I attribute to the fact that it is my policy whenever possible to accompany my husband. For two years he was a captain in the aviation corps and I was with him most of the time While traveling with him I learned the use of meteorological instruments. so with the discharge and our coming west he was offered work in the forest, and through the courtesy of Mr. Bartrum, the forest supervisor, I

was given the position of lookout. "Second, as to Black Rock itself, I believe it to be the highest point on the west coast at which a permanent lookout station has been established by the forest service-75 miles from Roseburg at an elevation of 6200 feet and in the heart of the finest timber

Spots Fires for the

"My favorite pastime was sitting

"Evenings, after 7, we generally

Cabin Proves Crowded.

"We lived in a ten-by-ten cabin

"The one thing which annoyed m

"It was always beautiful there. In

"My position was to watch for fires

Government.

Visitors Are Rare. "Although the trails to Black Rock are exceptionally good for a place so remote from a town, it is very seldom that one has any During my summer there, aside from the government packer who came through each week, one visit during the season by the district ranger and a sheep herder going out for supplies

were about the only people I saw. "The work consists primarily of spotting, locating and reporting forest fires. This is done by means of a telephone system which is run from the lookout to Roseburg. During the fire season in one day I counted 16

"The balance of the work is of a meteorological nature for the weather bureau. The station is equipped with an anemotmeter, psychrometer, rain

gauge, barometer, etc. "Ordinarily one would judge it to be a lonesome summer, but I found it far came to the cabin daily, counted 40 different kinds of birds and saw several bear

"On the whole I had a very enjoyable summer, as it was an entirely new experience for me, it being my first stay of any length on the coast. For several years prior to the war we

lived abroad. Wolves Howl Near Cabin.

"I don't want to pose as any heroine in a melodramatic sob story, for when he was working on fires. I'll admit it was rather an unpleasant experience on the nights he was away to hear the coyote or an occasional

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