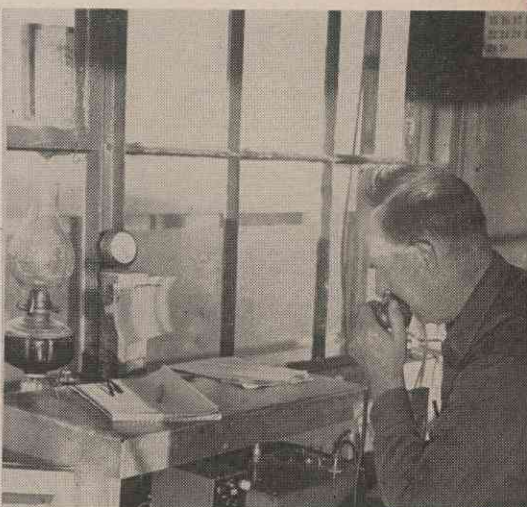


As soon as smoke is spotted, the location of its origin is determined by a "firefinder". The "firefinder" is a fixed map of the Forest and surrounding areas, rimmed by a movable metal rim,

marked off in degrees. The point of the smoke's origin is lined up in the rim's sights, and may then be located on the map beneath the metal tape which is stretched between the two sights.



Above left: After noting the time of the spotting, Brown phones in the fire report to the Ranger Station. He gives the location in degrees, the number read from the rim of the firefinder.

Above right: Should the phone system fail, the short-wave radio is used. Weather reports are received via radio six days a week from the U. S. Weather Bureau in Asheville. Communication between tower and firefighting crews are by radio.

Left: A "reading" from another tower enables Brown to "cross out" a fire, thus pinpointing it. Strings are stretched along the lines of sighting of the two towers. Location of the fire will be shown on the map where strings cross.