

not know. Fish in river from near ⁴⁰⁰⁹¹⁰⁻¹⁴⁴ ^{mouth} (200' up) to head of still water above Jacques. They could have been farther up but did not investigate. When disturbed once they require on the average 40 seconds before being ripe for another reaction. Very few dead fish, probably 1 per 300 feet. They move about in same direction which vary from place to place along river. For some time looked like there might be a down river movement. A few fish jumping completely out of water. The most impressive feature of the the whole experiment was the instantaneous reaction to vibration and light rays. Conducted about 10:30 P.M.

Pelicans, Utah Lake, Utah.

9/11/40

Drove down to Utah Lake at first large promontory south of mouth of Provo River. Few pelican on shore line, probably 130 in all. The greatest congregation was at mouth of mid-Utah Lake Channel. These birds flew south and west and did not come to resting grounds. In morning, sun up.

Pelicans, Utah Lake, Utah.

9/12/40

Arrived at end of sand bar promontory at 6:25 P.M. and made station at end of tamaris growth. Made appearance unnoticed to pelicans resting on shore line to the west and south-west. The purpose of trip was to watch the pelicans revive themselves from their deep rest and to determine how and when they left for their feeding grounds. The observations were conducted without their knowing of my presence. Being stationed some 1,000 feet from them. With the use of the Binoculars was able to follow closely their general action without affecting their normal activity. Skies partially clouded with cumulus-stratus-nimbus clouds. Few clouds hung low on Provo Peak. Rain assured. Slight breeze. Temperature 71°F. Running at south end of Cedar valley and Canyon area in localized spots. These thunder clouds later swung around the base of the Wasatch and trended north over Provo City, hence north against Timpanogas etc. The station here was only affected by heavy breeze, winds and slight showers but rains on Provo proved to be of cloud burst proportions. These storms occurred after pelicans had all left before they began. A solid continuous mass of resting pelicans occupied an area 1,200 feet long and from 50-80' wide. Closely packed adjoining beach of water. They were showing signs of activity on my arrival at 6:25 P.M. with several birds already standing up and preening their feathers which would indicate that they were had just risen from the ground. The birds were particularly concerned with the breast feathers