

hawk left area. 4 horned larks in cultivated field to to E. Left ear 9:15. a male and female mallard left Lotus Lake, 6 spoonbills circling area about 500 high. The male redwing blackbirds are recorded on map as circles and a cross. These birds were singing and definitely on territories. There were instances when 3 or 4 would feed on shore of lakes and would be within 2 or 3 feet of each other but when disturbed would fly to their separate territories. Old nests were generally associated with defending territories. There were 4 redwings at Lotus Lake. A muskrat fed and swam in lake; cheer house now high and dry and 15-20 feet from water. Lake south of Lotus Lake with 100' of water. Considerable *Spirogyra* and water clear. One redwing on territory. At Refuge Lake a scaup left area, one ♂ + one ♀ greenwing fed on N. shore in small bay. The *Spirogyra* completely blanketed the beach but free around immediate shoreline of receded water. Less in A20 now than apparently in former times of high water. Pectoral sandpiper on N shore. *Sigmodon hispidus* <sup>+ nest</sup> under board on beach and some 10 feet from vegetation on shoreline. *Helisoma trivolvis* very common on exposed beach on all lakes 6 redwing blackbirds ♀ on territory here. At 9:40 210 blue geese and 30 snow geese flew directly north over area and high they were in a series of 'v' shape formations. At Farm Lake noted 1 killdeer only. 3 ♂ redwing blackbirds on territories. Just west of the south end of Farm Lake is an area supporting an unusual number of bird nests, approx 15 in an area of 100x100ft. The marsh area (dry) between Farm Lake and Deep Lake supported 8 ♂ redwings on territories. At Deep by 9:50 A.M. no ducks. There has been considerable dredging of sand at the SE corner of the lake and surface area beyond lake has been prepared for extension of banks. most of the lake profiles show sandy soil but some are of dark clay and humus as if marsh conditions existed in this area at a previous time. This is surprising as recent floods (1951) placed a layer of new sands on the surface. An old crossonal channel has passed thru the area at one time. In an attempt to collect more water for Deep Lake dredging, a canal was excavated from Deep Lake to Bass Lake. The water now stands, at the head of the channel, approx 1 foot below the height of Bass Lake.