

of old sticks appeared to be at least two years ⁴⁰⁰⁴²¹⁻⁵⁷ old and represent the old eagle ^{nest} structure. The excrement was covering the ground to the extent that grass now grows one foot high and more, a green area peculiar to this general area. Even under the new nest the surface was normal except for an accumulation of dry sticks that had fallen during the nest construction. This pile of sticks was about $\frac{1}{16}$ the volume of nest. A rat nest 10' way at base of cliffs had $\frac{1}{3}$ the size of nest, an interesting coaction. Mr. Hitching reports another nest at the south end of these cliffs. Last week two large rattlesnakes were killed above the cliffs. One sparrow hawk, 2 rock wrens and one unknown hawk were also observed. The *Artemisia spinescens* (determined by Sid Bayle) were present among the atriplex and low growing types of vegetation. A zone of pebbles cemented with calcium carbonate is found $\frac{1}{2}$ way up cliffs. One interesting coral taken from these cliffs. Left Goshen Pass and returned to the abandoned area of Modia thence south. At half way to sand knolls run out of water in car and was necessary to walk to lake some $2\frac{1}{2}$ miles to the east. On way down saw very few birds there being 3 horned larks. The entire stretch was one of desolation in some areas the soils so compact that the western sun reflected from their mirror like surface of baked soils. The entire country is impregnated with Indian artifacts and chips. In some areas the surface gulches have drained certain sections and thereby exposing the substrata. At the lake observed the peewee, Blue Heron, Curlew, Willet, g.w. teal, mallard, boldpate, widgeon, shoveller and pintail. Rice stand of *Fragmites communis*. Returned to core and thence south to Alberta, thence to Provo an main highway.

4/29/40

Remond Leichty reports a pair of nesting Goshawks at a open grave on ridge to the south along the main trail. This nest has been used for many years but probably not continuously. He also reports the clematis in bloom but otherwise foliage of general array of plants not very far advanced.

4/30/40

W. Evening grasshoppers in evidence in Provo City. Yellow Warblers, Catbirds and others have arrived. For the last week we have received ^{an} excessive amount of rain with dull cold days and nights.