

Crows. Recording of Phoebe calls 400623-99 6/23/40
Phoebe started calling exactly at 3:45 A.M. this morning which was about 2 minutes before I could detect any indication of daybreak. Daybreak is the most likely thing that initiates its call. Its call a vigorous one lasting until 4:31 A.M. The call was its regular call of two phases. However, occasionally would hear its (v) call and (-) call. See key of previous recordings. From 3:58 to 4:16 A.M. it called interruptedly offering its regular two phase call without modification. Calls averaged 22 per minute varying from 20 to 25 calls per minute. Song a faster one in morning than in evening. Could not read figures on watch until 3:54 A.M. without aid of artificial light. Bird called occasionally through the entire morning but its calls were only of the (-) call and not associated with the regular call of this morning. When given averaged 9 calls per minutes at a distance the regular calls sound like 2 notes to each of its two phases. In the first phase the last note is a step higher than first note and ends with an abrupt flip. The second note of the second phase is about $1/2$ step lower than the first note of the second phase. In general this early morning call is very distinct from the evening call is given with a more vigorous mood and persistency of the same regular call. Bird called earlier than usual this evening but exactly on time at 8:23 P.M.

Crows. 6/23/40
Reed Beddolph took 50' of Kodachrome and 50' of black and white movie of the sandhill Crane in backyard last Thursday.
Aspen Grove, Mt. Timpanogas, Ut. Co. 6/23/40
Spent the afternoon in conifers and aspen on hill just south of pine flat which is north of aspen grove and N.E. from head of dugway. This area has a favorable exposure for conifer growth. It is a rather isolated grouping and may represent a remnant of the climax montane forest. The *Abies concolor*, Douglas fir and *Picea engelmannii*, *Opulus tremuloides*, peach leaf willow (?), large maple, and *Quercus* are represented. The oak are found on the south side of hill, aspen on top with few large maple which appear to be nearly crowded out, some being dead while others with weak foliage and fragile upper limits. Few *Prunus melanocarpa* on top but found among the oak-open zone. On top and west side one finds a group of young conifers (*Abies concolor*) among the aspen stands. These conifers are about as dense and matted as I have ever observed. The *Picea engelmannii* border pine flat on the south side and dominate this zone as a