

The order of dominance (displacer):  
 towhee.  
 finch  
 song sparrow (♀ displaces ♂)  
 junco.

Order of wariness  
 towhee  
 song sparrow  
 junco  
 finch. (will remain  
 when all other birds  
 leave on alert)

Red-throated loon submerged 32 secs.  
 12:00 currents moving E., tide going down  
 At 2:05 ebb, 2:07 maximum high low. 2:10 flow. The correction  
 factor on Seattle is +34 instead of 38 recorded in the tide book.  
 At 2:15 26 black turnstones alighted on beach after 4 trees.

Feb 13, 1986

A member of Thousand Trails reported a trumpeters swan  
 on the preserve. On Feb 5th a swan (injured) apparently was  
 stranded on flow water over the neck of shallow water between  
 Lone Tree Island and the mainland. It had been stranded  
 on a high point after ebb. It was chased into the small bay  
 associated with the inside of island. All day on the 6th it swam  
 in this bay. On the 7th it left the bay and went E up the  
 drainage. On the 8th remained in channel and on the 9th  
 was found almost dead on mud slope at N end of the Lone Tree  
 bay. A wildlife refuge personnel retrieved <sup>and placed it in care of palouse</sup> the bird. <sup>unit</sup> The <sup>in</sup> wing was broken and the injured bird <sup>will</sup> probably recover from <sup>mt.</sup> starvation. <sup>Veram</sup>

11:30 A.M. Heron Luck just being exposed. Rock W of this  
 rock exposed at 12:30 or 1 hour difference in time on ebb.  
 Dark-eyed junco (Oregon race) have albinism in tail feathers  
 2 or more white (complete) feathers on one or the other side, perhaps  
 1 per 15 birds. The other 2 race have not shown this kind of  
 albinism.

Purple finches form or compact groups on feeder than the  
 juncos. Although the same number of birds are on the table  
 the juncos are more depressed.

At 4:40 P.M. (just <sup>before</sup> sun was going down behind Hope Island  
 noted 16 cormorant that have been resting on emerged island  
 (outer one) 5 from Lone Tree Island. Two were noticeably larger  
 with bigger heads than the rest of the cormorant and I took  
 this to be the Brandt's cormorant. 5 were smaller,  
 longer thinner necks & small head which were the pelagic  
 cormorant and the remaining of intermediate size were