

*Dean's Sale's Note Book*  
No. 6.

J.C. Parsons

~~Notarient - On the Soudres 27.50. Heraty 18/ 27.50~~

Patent process of Gold Extraction

The Patent process Extracting Gold &c.

Manager & Co. H.A. Hedley

Office 27. St Vincent Place Glasgow. Works at Old Kippochill Road  
Glasgow.

366  
19 - 6  
512 - 6  
326 - 6  
369 - 6  
360 - 6  
40 - 6  
52 - 6

339 - 18  
126 - 12  
234 - 12  
2067220 - 6  
96 - 6  
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March, 1<sup>st</sup> 1889.

- March 1 arrived here from the East spent Every day upon the Mountain side  
 284 in search of Blue's Cow.
- 5 Saw my first bird today upon hill side O.S. of Fathers old ranch  
 218  
 216  
 219  
 284 7 Saw James Oregonus, Aikeni and Comiceps all together,
- 7 Saw a pair of Blue's Cow on hill side far up above Fritys' they  
 were seemingly building their nest, found an old nest in this locality
- 157 Saw a flock of Bohemian Waxwings, about 30 all told,
- 24 Saw a Couple of Blue Birds (Audubon), bright blue not yet noticeable,  
 above Johnsons Ranch 9,000ft,
- 284 8 found nest of the cow occupied last year, placed upon the upper branches of a small  
 abnormal pine tree well seated, the situation was at the edge of a small second-  
 growth patch of Pine trees, nest about 18ft from the ground there were repeated twigs  
 still lying upon the ground under the nest this choice of situation is rather a new  
 feature and Experience, remembers to have seen the bird who came to interview  
 me a quarter of a mile distant on 20<sup>th</sup> July '88 when looking for it and its nest  
 this date I am now satisfied by the manner of the bird was too early, nest of  
 both here near Reeds house a little to the north west of it, saw no birds this  
 season at this point, while searching for this seasons nests on McChips side  
 hill found two old nests about 70ft apart each about 18ft from the ground in spruce  
 trees in warm sheltered location two kinds up the Mt. one of which was certainly  
 used last year near which I remembered to have seen the bird and only a short  
 distance from where my search upwards ended. singular to say that this season  
 a whole weeks search upon this eligible side hill failed to discover a single bird  
 altho nests of many previous years suggest consecutive occupation.
- 436 9 found old nest of the western Red tailed hawk from which the Hartley boys took 3 Eggs  
 last season about 20<sup>th</sup> may somewhat incubated site near top of pine tree about  
 40ft from the ground, on side hill west of Henthays house, on the hill side up.
- 284 11 travelled to Ward Dist. in drove over the ridge from Reeds stable found old nest of 284  
 at edge of timber South Eastern aspect sheltered and well concealed placed near the top  
 of small Pine tree 15 feet from ground abnormal growth of top such as this bird is found  
 selection

March. 13<sup>th</sup> 1889

- 2874 11 selecting. observed the bird last year in this vicinity but think I was a little early, later on the bird's actions altho at best wanting in demonstration would have been more pronounced the next day to the 18<sup>th</sup> March 88 no doubt was a very early nest and led me greatly wishing as to the proper time to look for others a little later with additional perseverance would have secured to me at least two other nests, as I found the nests this season secured but with very little difficulty, in trying to find the birds I saw at the different localities last season but was entirely unsuccessful for some reason or other, in comparing things at mind I came to the opinion that I was too early for that point the beginning of April was time enough, so made no extensive search there. on the 13<sup>th</sup> March last year I gave up the search, a date at which from what I now know would have been the most successful, except at least when a couple or three nests later would have been time enough.
- 2874 13 Saw four Blue birds a little south of Gold Lake they seemed to be new arrivals. Saw the male, upon my second visit to the locality where I discovered the pair of the 7<sup>th</sup> he gave a sneeze of alarm and flew away hunted about for the nest unsuccessfully saw no more of the bird.
- 2874 16 hunted again for the nest of this pair found it commenced just where their actions seemed to indicate upon first meeting with them did not see either birds upon this occasion I fear they may have forsaken the locality in disgust perceiving themselves watched.
- 4052 18 Took nest of this pair at Entrance to Lower Canyon Entrance of left hand Canyon on ledge of rock 20 feet from ground only two Egg inch supposing there was yet one to lay visited the place again on 21<sup>st</sup> but saw nothing of either I got rest upon the bare ground, a few twigs at the front edge, a kind of screen or fence to hide the bird, seemingly, the sticks were the property of the wood rats in the ledge they flew off the nest upon having a stick thrown up at them and did not return while I was taking the Eggs. Crossed over the ridge to the St. Nazaire, saw a small creek, Lizards, and several Spring butterflies of two or three species, several swarms of flies saw also in a stone quarry a grey Rock Squirrel, located several Eagle nests.
- 415 19 Had and now, slept at Days, in the Mts. Saw a flock of about 30 or 40 Evening Grosbeaks, they had frequented this locality each Mt. for over a month. The inducement seemed

March 19. 1864

- March 19  
165  
24  
24  
378<sup>b</sup>  
376  
495<sup>a</sup> 20  
21  
22  
300  
7<sup>a</sup>
- seemed to be the wild Cherry stones thrown out about the house by the farmers  
wife in making a preparation from them for table purposes, with their shining  
mandibles they cracked these stones quite readily, and the small wild plum  
stones also, I was assured by Mr Day, he also informed me that upon the 4<sup>th</sup>  
he saw in his neighborhood a scattered flock or 4 or 500 Blue birds & it is  
doubtless the first important spring wave, I saw in the foot hills several each day,  
the meadow larks were singing just as I heard them upon the 16<sup>th</sup> of last Dec  
in the same locality; they wintered this year in numbers with us,  
The flocks were very noisy, and numerous along the gulches and creeks, the  
Blue Jays (Crested) were also numerous still harrying the Crows & here the passed  
the winter, noticed several peculiar notes by this species never heard before quite  
musical, heard the Pitts Deer slover twice this day, saw several Juncos & finches  
Captured a pair of 495<sup>a</sup> on the Little Thomson below Plumes the same pair I had  
for four years previously found nestings in this locality, in each case with eggs or  
young never exceeding three in number, this season to my surprise I found  
their clutch to be four, one in cotton wood tree about 20 feet from the ground  
upon top of an old Gray's nest which had the appearance of being fixed up  
to the Owl themselves with new twigs, I secured the eggs off the nest, and  
while robbing it I heard the Owls crying somewhat mournfully, they made  
no other demonstration, the site was about 50 yards from one of those last  
season, for four years they have been ringing the changes upon two old houses  
and three old Jays' nests several times using the same nest, but not in  
the same season, in the 4 years the greatest distance apart to their sites  
was not over half a mile, this was three seasons ago.
- Returns from dipping to timber on left hand last night snow threatening  
walked up to mill this morn. very bad walking tho' the snow but 7 inches deep.  
saw some finches, and several Juncos mostly the species connectens.
- rested up while crossing the Ridge at Coors saw 7 or 8 shore larks the Pitt-  
variety, at an elevation of 1000 to 500 feet above the plains, Jays' were  
actually building their nests in the gulches, saw for the first time this spring.

March 22. 1889.

- March 22 Robins, seemingly just arrived yesterday, I saw the Prairie Dogs scampering about their settlements each day.
- 2871 25 again visited nesting site of this pair discovered on the 7<sup>th</sup> nest seemingly just completed, no birds to be seen near the site, quite 3 weeks from collecting site before any Eggs were laid and at least two incub. building in earnest.
- 397 26 visited Boulder Creek draft for the home - searched for nest site of Barred owl could not find the locality, was I met with them three years ago on valley.
- 449 27 visited Magnolia by Gregory's Cañon, White's son unreliable, consists of Eagles nest on Bear Cañon none in Gregory's, good place for Jays nests north of White's Saw mill, and a fairly good place on the Magnolia hills for Downys and H.R. breasted Wood Pecker, and Pinyon Nuthatch, a resident there told me the Mountain Doves are to be found there in the Spring.
- 2902 28 returned to Boulder via Gregory's Cañon saw several pairs of v. Blue birds paired.
- 376 29 Went to Fort Collins, seen both paired, many flocks of bachelor Red wings a few Song sparrows, and a flock or two of small birds I could not identify. They seemed to be migrants just arrived, and were flying round.
- 375 29 Antoine had left Bellevue is now at Colorado City in the employ of Mr Greenly, whom whose son runs the quarry at Glouce City. Saw a Great blue heron at Dallas in his zone saw a number of herons nest broken away from the trees on the ground.
- 374 30 travelled to Hook's Saw mill on Red Stone, nest's son gave me the sites of three Eagles nest two of them old, the one at Cardolfs deserted, nested last year. I believe that a pair of Eagles nests north east side of Bear Cañon, half way up the Cañon, high up on the Mts. N.E. of old nest site, old man Hook thinks the grouse hatch out by first of May. Son of nest about two pairs of Em tufted Squirrels, in each case one was black the other gray, nests like the small Pine Squirrel. The tufted Squirrel about being about two thirds larger its track its track in the Earth, saw a full is much larger, and can easily be also longish, after a slight peak fall of snow.
- 471 31 Took Eagles nest a two Egg inch, Rocky ledge 60ft high within 10 feet of top nest 9ft high and quite level diameter built of sticks having some green strips of Spruce or balsam.

April 1, 1889.

balcon upon which the Egg were laid. a slight depression only in center of nest with a few small & flat stones of Old Engraves Embedded in the fine small leaves of the same detached from the solid base of center, on the edge of nest was a rabbit with head eaten off within half a mile of site but I showed signs of uneasiness by flying round the & however did not leave the nest until she heard the approach from above the locality was near Crystal Cave in flat running up from Gov Raute's track of Red entrance from Road above the horse fence - Eggs in size little differing in general color, one with purplish flush originating in the ground, influencing the lavender shell markings covering quite 40 per cent of entire surface, and also the sepia darker markings of its surface character for an Egg of this species above the medium, the other Egg from its colder green color with under shell markings of lavender purple more distinct but much smaller occupies less than 20% of entire surface, the outside sepia markings of two shades both fading into the purple lavender also in two shades making a very agreeable combination of color, and very fine specimen, the first described specimen has an irregularly raised, undefined character by the sepia markings, wanting in crisp completeness that the second described Egg supplies, the lavender shell markings in both favoring the smaller Egg.

- April 1
- 1 Stunted from Bellevue with team along Red Canon saw Old Eagles nest 3 miles below Harts Saw Mills on Red Stone, halfway between these points saw Old Jays nest high up in crotch of Cotton wood tree, visited Eagles nest at Horse tooth behind Bendolphs Pattersons gulch found it deserted it was robbed last year, another old nest mile and a half below Randolphs from Red Stone followed in to the Buckhorn found two old nests there but no Eagles, staid at Golushes on the Big Thomson followed up
  - 2 Chudworths Glade to the dam found two Old Eagles nests across from Sawyers one raised a pair of young last year, Eagles breeding in the vicinity.
- discovered site of Duck Hawks nest near by deemed it too trashy for Eggs have weathered at Washington about it of Exceeding 3 in size at least one third appearance of the 8 in dark sooty above, slate dusky brown underneath, whitish breast and throat as seen to extend to side of head in region of ear coverts, grayish white under wings belly and tail the ♀ Resided like a duck over the nest site



April 2. 1889

- April 2 followed the Rock trail from Flat Iron nearly to A. B. Bartlett's when I saw a  
 Screeb Hawk fly out of hole in cliff, went with Gudmund and Charlie and  
 449 3 slept with Bartlett, next morn. in company with him visited the Eagles nest of  
 last year and secured a pair of Egg remarkably dissimilar from each other  
 in size color & markings, and also widely differing from the pair taken last year,  
 The nest was upon a Rock ledge 40 feet from the ground built of sticks split high  
 and over 6 feet across in the centre of which was a slight depression in which the Egg  
 rested upon some fresh green spruce sprays and old skeleton twigs those used the previous  
 year, there was also upon the platform no less than three bunches of the green  
 weed or Spanish bayonet plant, the ♀ flew from the nest when approached within  
 25 feet, the larger Egg in general color bluish white the under shell markings very  
 faint pervading the entire surface possibly 40% surface markings exceedingly minute  
 and sparse of a light sepia tint, the smaller Egg in general appearance much warmer  
 the lavender undulating pervading perhaps 60% of the entire surface for two thirds  
 its length culminating at the larger end, or mottled reddish brown over the lavender  
 as a middle tint, with fine reddish brown markings like smaller pebbles  
 chiefly gathered about the larger end, travelled across the mts to the St  
 Kramie and slept at Mrs. Barkers, from this point  
 4 I made timber at left hand and reached home the same evening,  
 264 5 Secured the nest of Clarks Crow in which I found to my great surprise  
 3 fresh Egg had found attaching the nest site deserted the nest was a round  
 sticks & twigs outside with Juniper bark for middle structure the same better  
 soft for lining - placed in a small round black pine 6 inches diameter at  
 stem and about 10 feet high, nest 8 feet from ground resting on bough with many  
 laterals about a foot from the stem, the whole secured in fact, - touched the  
 tail of the ♀ covering the nest without effect in climbing to the nest she  
 flew off a short distance sounding once or twice an alarm note  
 but I did not see, or hear of her mate coming to the rescue it took me  
 a little while to secure the nest &c. saw neither ♂ or ♀ afterwards, saw for  
 the first time today Williamsons ♂ & R. Brewster's ♂ and ♀ very early in the  
 season for this

April 5, 1889,

- April 5 for them it was a fine ♂, last year at a much latter date I saw two or three males it must be that they precede the ♀s some days,
- 370 6 Hunting over the Mountain I saw another ♂ PAR breast, several days bad weather intervening, went toward this day, hunted for Clark's crow all along their favorite places without seeing one, at noon in the noon could not find out that either 286 or 297<sup>a</sup> had been seen lately, wood choppers for some distance round have no doubt forced these birds to go further back to nest,
- 284 297<sup>a</sup> 12 started out to the scene of wood chopping last year a few green trees in a wilderness of dry timber burnt over several years since, discovered a nest of last year 286 sitting in a live Pinon tree about 4 1/2 ft high East side of main stem supported by three branches could not extend my search in the green timber below the high plateau for snow-birds snowshoes in wretched condition went up and returned by Brannons road going the round of left hand Park as far as Saw Mill, at this point saw two Stormigian 476 they were very wild and perfectly white in plumage, half way back along the park on the south side at the end of the large timber and commencement of Spruce scrub saw three 297<sup>a</sup> gathering with much industry insects on grassy bank, their manner led to the conclusion that they had not nests yet, but intided to do so shortly, and that their sites would not be disturb from this point the scrubby Spruce referred to being very favorable, the snow drifts hereabout in the timber making it almost impossible to institute a search untill too late in the season of this species, these were all the birds I saw, did not meet with a single 286, altho I searched on side hill west of Grand and also to the south end in Siletian between the hills, a favorable looking place at both points, broke my Snowshoes and felt quite disheartened,
- 297<sup>a</sup> 15 upon my return at Brannons meadow a little west of Giles saw a Jays Gipsy
- 16 walked to Boulder this afternoon, left Boulder and walked to Mrs Babers
- 149<sup>a</sup> 316 72 381 18 on the St Mercine, saw Mt Rumped Shrike, two Jays Peewees, saw a striped Gopher, a numerous wave of Robins, saw downy wood pecker out of winter hole, in small cotton wood stub, 6ft from the ground,
- 402° 19 Just a 402° 4 Egg newly fresh, Cotton wood tree natural hole 14 ft from ground, Just B do 4 Egg fresh. 3 1/2 or Pickers hole 10ft from ground,

April 19, 1889.

April 19  
487.  
282  
378b  
460

Nest C 402 5 Eggs, inch 3. Cotton wood tree natural hole 12ft from ground, Small Egg,  
Blue Herons nesting above McCaslin's; Crows with nests built; Flickers busy  
excavating, saw and heard several mourning doves, Hawks both on both  
of this species wintered on the Little Thomson.

442  
240c  
480  
402c

20 Swainson's hawk's nest newly completed building upper woods at Sadlers,  
Several pairs of Killers Jay about Amcerno, Quail partridge paired,

Nest D. 4 Egg inch 4, Cotton wood tree, in natural hole 20 feet from ground, Amcerno

Nest E. 4 " " " " 18 feet " " " "

Nest F. 1 Egg newly put, another chipped, and three young adults at  
Drench mens in Cotton wood tree old Flicker's nest 11ft from ground,  
saw several Grass finches, Jay young Buntings,

402c

21 Easter Sunday, staid at Dove Dickins at Little Thomson

402c

22 Nest G. inch 1. 4 Eggs Cotton wood tree old Flicker's nest site 4 feet from ground,

Nest H inch 2. 4 " " natural hole, 7 " " " " " "

Nest I inch 3. 5 " " " " 10 " " " "

Nest K inch 3. 3 " " Box Elder tree " " 11 " " " "

395

Nest a inch 3 4 Eggs old Magpies nest site Cotton wood tree 12ft from ground

Nest B fresh 5 " " Box Elder, 13 " " " "

Nest C young adults of two one much younger than other both younger than the other  
three in all 6 in same nest from which I took 6 Eggs last year, old Magpies'  
nest site in Box Elder about 14 feet from the ground, in the last day of town

185

have noted the Pine Finch at different points in small families seemingly

238

busy feeding about the Cotton wood twigs just developing, saw several Chats,

290c

23 Killers Jay Nest a. 4 Eggs fresh in black willow 47.5 feet from the ground, there was  
a good showing of mud in the construction of nest, sticks outside, roots lining

301

Shore Lark Nest a 4 Eggs fresh going to hatching, on Egg broken,

196

24 Saw several Audubons Warbler for first time feeding like the Pine finches

71

Saw several T. plank as I walked to Boulder on the 16th just arrived,

418

Falcons (Purvie's) nest with two dark Eggs in old Eagles nest site in Cliff  
on the Thomson near dam, 50ft from bottom of Cliff and about 20ft from top

The ♂ was

April 24. 1889.

- April 24 The male was most active flying round and castrating in manner resembling  
 of a duck, hen, and flicker something like one and all of them, I nearly  
 one third less in size than of very dark brown and ear coverts dark upper parts  
 not brown. White chin and throat extending under the ear coverts tail feathers  
 dark, undertail coverts ochraceous white feet yellow, other under parts banded  
 or streaked across giving the ensemble a grayish silvery white.  
 Extreme end of tail lightish, bill black, flight rapid, or otherwise as described  
 157  
 206  
 Bank Swallows, and white crowned sparrows seen today  
 W. J. Dukes, Fort Collins, Shaton Park, Spring gulch,  
 Moose Wymann lumber, Cedar Park, good place for grouse,  
 Travelled to Bandolphas, Red Stone, and climbed Horse tooth mountain  
 471. 25 in search of Grouse nests, was misinformed as to the time of nesting in  
 this and joining locality, should judge the 1st May the proper time to look  
 for nests, saw several ♂♂ of the former strutting about and grunting  
 tail fanned, red eye brows lifted to the crown of the head, with pills  
 opened each side of neck, showing a red center, from which the ends  
 white of feathers tipped with dark radiate from it thus <sup>and</sup> <sup>and</sup> <sup>and</sup> white  
 stationary upon a tree, or rock, they utter their peculiar grunt. This is  
 done by inflating the neck with air holding the head a little down  
 bills and tail shut, at Horse tooth and Shaton Park saw the ♂♂  
 behaving in this manner, when only a few feet from you grunting  
 it has a peculiar distinct effect and seems to change direction also,  
 The Black and Gray Squirrels (Ear tufted) found in these localities,  
 while watching the maneuvers of a ♀ Grouse my attention was  
 drawn to a flying nest hatch excavating in an old Spruce stub,  
 574  
 169  
 saw several small flocks of Cassin's finch,  
 26 Slept at Nest's Res. Canon, next day followed up the gulch to Dukes  
 290<sup>c</sup> searched for Junco nests it was evidently too early, saw several pairs  
 seemingly intending to nest, but had not yet begun, the leafing  
 of the trees are a couple of weeks later here than in the foothills,

April 26, 1884.

- April 26 Saw *Sphyrapicus nuchalis* at Skatou Park where there is many Aspen groves
- 27 Walked back to Chummy hollow over 30 miles from behind Stone prairie saw  
 58 a pair of Rock wrens carrying material to construct their nests in some rocks,
- ✓ 28 Sunday at Bartletts, Monday snowed all day, nest of Magpie 6 Eggs fresh  
 also antic Blue bird 5 Eggs fresh,
- 378<sup>b</sup> 30 Again on the Little Thomson, took nests a + b of flicker 8 + 9 Eggs each fresh,  
 the Jays + wood pecks seemingly had disappeared, Bartlett took 4 Eggs of  
 the Falcon visited on 24<sup>th</sup> two Egg laid in bed, all were perfectly fresh, have  
 no doubt but a fifty Egg would have been added in a day or two. The ♀ received  
 the nest perhaps was in the act of depositing the 5<sup>th</sup> Egg, both birds were very  
 demonstrative and flew round much excited when the nest was robbed.  
 576 Kill deer not generally nesting yet, a great number of Robins seen on the  
 7<sup>a</sup> Creek, saw two, White Crowned, Song and Chipping Sparrows, also Grass  
 210 Finches numerous, Home and Rock wren looking for nest sites in the  
 206 holes made by the Bank Swallow in clay banks, a flicker seemed abundant  
 231<sup>a</sup> also in a clay Bank amongst nest quarries, saw a few Audubons warblers  
 211<sup>a</sup> and some other Summer birds but did not recognize them,  
 197<sup>a</sup>
- 58  
 63<sup>a</sup>
- 378<sup>b</sup> 4<sup>th</sup> it's now from last date unsettled, weather, snow and rain, on the St Veraine  
 290<sup>c</sup> saw a Stellers Jay without crest, belly light dove or dirty grey with white, old Jays  
 nest in thicket of willows Entrance to Left hand, fled from ground, and a second  
 one in a slim bush on the St Veraine about 4 feet from ground, probably the  
 24 Blue birds which were numerous in the foot hills was the last wave, -
- 360 5 Sunday. 6<sup>th</sup> visited nest site of 360 at Hillers, not there!
- 19  
 376  
 204<sup>a</sup> 7 Walked to Boulder, on the way visited North Boulder Creek too late for first nesting  
 of Doyles did not go to upper bridge, - saw Downy wood pecker + Lark finch,  
 413 Walked to Altona, crossed to St Veraine by Cass. found another falcons nest on  
 St Veraine bird sitting, perched on a dead tree over the nest site, had a  
 349 glimpse of a White throated Swift in some cliff, Doyles nest with young,  
 19  
 316  
 306 Saw also a western Pyramt Fly Catcher, also Jays several,
- 13 Walked back home from Bartletts via Little Thomson, St Veraine, Altona Jim Down  
 to home.

May 13. 1889.

- May 13 home, on the 9. 10 & 11<sup>th</sup> was snow bound at Bartlett's, the high water, Bartlett's  
 413 need at home, and the bad weather took me the 2<sup>nd</sup> Falcons nest. No nest at  
 360 14 home in Providence Gulch, took Angels nest 5 Eggs incubated 2, at the  
 19 old site on Jim Creek below spring dam, could find no nests, between it and  
 370 Providence, found 370 Excavating nest in aspen tree  
 19 Sunday at home snow and unsettled weather from last date until yesterday,  
 the snow falls were heavy and wet, one fall measured 4 feet at East Park,  
 these snow falls seem to wipe out the nests of 300 Every time,  
 436<sup>b</sup> visited Red Devil Hawks nest at Hartleys. the Hawks were flying about but do not think  
 they had their complement of Eggs yet if any, saw both birds flying round when  
 2360<sup>b</sup> 500 yards distant from nest, took nest of 360<sup>b</sup> only 3 Eggs one of the member very small  
 almost a runt, had a yolk, in aspen (old stub) about 5 feet from hogworn, south  
 6360<sup>b</sup> of Jim Creek from Reeds, took 4 Eggs 1 Broken, in withered top of aspen tree  
 40 over 30 feet from the ground, a chickadees nest 7 or 8 feet above too dangerous to get  
 at incubated 1/4 very small Egg, south of Jim Creek, Simbleson's hill site, -  
 339 Saw Humming bird, 8500ft this date, saw this species first in foot hills on the  
 71 1<sup>st</sup> of May, saw also at this altitude Tit Larks, and Audubon warblers and  
 96 also a pair of small birds such as I have seen at Grand,  
 162 ✓  
 304 20 visited North Boulder Creek, saw no terns Tanager and Tyrant Fly Catcher,  
 402<sup>c</sup> 21 travelled to Little Thomson 402<sup>c</sup> nest 3 Eggs almost fresh, 2<sup>nd</sup> day inc, took 4,  
 460 one more Egg to lay, I think - some nests plenty took one with 2 long pointed Eggs  
 149<sup>a</sup> White Rumped Shrike set of 6 Eggs fresh, Shrike 5 Eggs 2<sup>nd</sup> day inc of nest B, set of  
 378<sup>b</sup> which I took 8 Eggs on the 7<sup>th</sup> inst. Saw Cat Bird, long tailed Chat Lemmon Yellow  
 bird, Brown Thrasher, Lark Finch, and House Swallow, mud nests at Lees Pines  
 no lining yet, meadow Lark two nest 3 & 5 Eggs.  
 X  
 405<sup>a</sup> 22 nest II Little Thomson in cotton wood tree old Hawks nest 30 feet from the ground  
 a third laying, incub unequal 2. nest site changed each set laid,  
 402<sup>c</sup> nest III new nest at Culverts, 3 Eggs inc 3. in Fox Elder 12ft from ground,  
 looked at nest 402<sup>c</sup>. C, in which were 5 Eggs fresh laying, found the nest hole full of  
 water the site deserted. stopped at Mrs Bahr on the 24<sup>th</sup> inst. -

July 23. 1889

- July 23 visited the several nest site of 402° which were despoiled a month since, nest I. tree cut down by Duncan for road,
  - " F. was prevented examining this site too many persons next,
  - " At found 3 Egg fresh this site also deserted. the Egg had been lying in hole,
  - " It no second lying in this case that I could make out,
  - " Searched for but could not find any Junco's nests. too early for this year
  - " walked to try out and from that point to Boulder by Rail Road.
- 256 saw small flocks of the Lar R Bunting just arrived from South, oriole also, reached Goldhill this afternoon,
- 272 Searched Spring Gulch. found several wood pecker nest sites 360<sup>b</sup> 369<sup>a</sup> & 370 took nest C. 360<sup>b</sup> with 5 Egg fresh in aspen tree 20ft from the ground near Celestial mine. saw at 8500ft Audubon's Warbler, Red tailed Hawk (Colurus) did not nest in same site as last year at Kentucky, Blk headed Gros beak 8000ft. birds late nesting this season,
- 287 nest A 4 fresh Eggs perhaps another 4 lay. Niemanns Gulch upper part in aspen 10ft from ground in old 369<sup>a</sup> unfinished site only 4 inches deep. Saw Ruby Crowned Kinglet 9000ft. also Hammonds or Muffs fly catcher same altitude. Blk Crowned yellow Warbler 8000ft.
- 327 or 8 125 nest A 4 fresh Eggs perhaps another 4 lay. Niemanns Gulch upper part in aspen 10ft from ground in old 369<sup>a</sup> unfinished site only 4 inches deep. Saw Ruby Crowned Kinglet 9000ft. also Hammonds or Muffs fly catcher same altitude. Blk Crowned yellow Warbler 8000ft.
- 360<sup>b</sup> 26 Sunday walked to Boulder, nest with young 4 or 5 days old upper end Niemanns Gulch,
- 360<sup>b</sup> 27 returned to Gold Hill. nest with young 6 or 7 days old Slaughter house,
- 360<sup>b</sup> 28 nest D 3 Eggs nearly fresh in aspen 20ft from ground Fritz's meadow left hand. nest A 4 Eggs fresh 7 feet from ground,
- 72 nest A 4 Eggs fresh 7 feet from ground,
- 40 29 Mountain Chief Niemanns gulch took nest B. 40 9 Eggs inch 3. 12 feet from ground in aspen tree altitude of 369<sup>a</sup>. nest A 370 outcraul's gulch 6 Eggs fresh, in aspen tree 20ft from ground,
- 370 nest A. #280 only 3 Eggs to date taken June 30<sup>th</sup> Egg, #7<sup>a</sup> 3 Egg fresh #274 5 Egg fresh, on side wall of Ing shaft 15 feet deep nest half way down old nest filled up
- 220 nest C lower end of Celestial gulch 9 Eggs inch 4. in aspen tree old 369<sup>a</sup> site 8 feet from ground.
- 40 nest D gate near Rainier's meadow 5 Eggs to date taken on 5<sup>th</sup> June contained 9 Egg fresh,
- 40 31 nest E at Duncan's mine 4 Egg fresh one broken in aspen old 369<sup>a</sup> site 8 feet from ground,
- 40 June 1 nest F young birds 3 days old or so in aspen tree north of Providence Gulch,
- 40 nest A Ridge gulch 4 Eggs fresh in aspen tree 8 feet from the ground,

June 2

June 2. 1889.

June						
40	2	Nest G in Long Gulch north of S. Atkinson in aspen tree 8 feet from ground, 5 Eggs fresh				
360 <sup>b</sup>		Nest F. in do do do in aspen tree 24 do				4, fresh 3
369 <sup>a</sup>		Nest A in do do do do 20 do				2, fresh
		opened several other nests and recovered them some with 2 Eggs others with none				
339	✓	Nest a Humming birds. nest on spruce bough 2 feet from ground Eggs fresh 1.				
19	3	Nest B. 3 Eggs fresh on the south of Atkinson near Frontier & Barnes,				
1034		Nest a 1034 Saw that owl in old flaxen Co in long aspen 20 ft from ground. 3 Eggs fresh				
1034		Nest B do do do do 22				3,
		nest with this last species for the first time. they readily respond to a knock upon tree, make no complaint at having their nest taken are less timid than 102 <sup>a</sup>				
274		Nest B. 6 Eggs of Brewer, Blackbird fresh 1. Gold Lake,				
500	4	Some Audubans Thrush on the 2 <sup>nd</sup> for first time region today. 1 Solitary.				
40		Nest H Kiemanns Gulch in old pine tree 7 Eggs fresh 2 ft from ground,				
40		I do. taken tree 3. Closed cup 11 ft				
52		Nest a in old aspen tree 4 Eggs, sitting in nest of vegetable material suited to that compliment, very slight, made of wood fiber and a little inner aspen bark nest unlike 51 <sup>a</sup> is easily discovered by knocking on the tree, about 15 feet from ground Eggs beautiful rose tinted when unblown bright reddish brown when blown ablonger end, had the bird's fortune to break two of the Eggs accidentally, sheltered under Kiemanns.				
370		Nest B 6 Eggs fresh in Pine Stuck 10 feet from ground Kiemanns Gulch,				
274		Nest B. 6 Eggs. C. 5 Eggs and again I 5 Eggs fresh & newly fresh,				
7 <sup>th</sup>		Nest D. 3 Eggs, nest E 3 Eggs,				
370	5	Nest C 5 Eggs fresh Ridge north of Kiemanns home in Pine Stuck 2 ft from ground				
		do D 5 " fresh do do 10 " do				
		do E 5 " incl 1/2 south below this point do 8 " do				
57 <sup>th</sup>		Nest A 7 " incl 2 1/2 Ridge above same tree as 370 Nest C 7 ft do				
54		Nest a 8 " fresh do do 20 ft do,				
24		Nest a 6 Eggs fresh in aspen Stuck 10 ft from ground two Eggs broken,				
25	6	Nest a. 5 Eggs incl 3 Cause hole, old nest and site two years ago bird on the nest				



June 7, 1887.

June 6 nest, not easily scared off made no demonstration whatever did not see  
25 F. Except to say the bird is not seen about the occupancy it, nests placed in  
shelter and not exposed to the sun, this was an early nest.

- 370 7 Nest 5 Egg fresh bank about 1/2 in Pine Old site 18ft from ground
- " C 6 " do do do 16ft do
- " H 6 " nest 1 do Andy Johnson, Penche 12ft do
- " I 6 " nest 1/2 Old Mill site Seward's in Aspen 78ft do

8 Snowed and Rained all day, damp and cold

9 Snow and rain storms all day 4 inches of snow upon plateau of Bald Hill  
in the afternoon hunted for some wood Peckers nests upon old frames, found none,  
remarkable paucity of birds everywhere dead like the few handy rables & sparrows  
450 lay down in the sheltered gulches, saw a pair of band tailed pigeons plucking  
themselves in the snow fall, about this date for three years have seen these pigeons,

42 10 Clear weather sun in left hand gulch Swansons Thrush, the Pine Finch, night fly  
195 catcher Audubons Thrush, Black Capped Yellow Warbler & heading up the Gulch  
96  
125 there was ice upon still water last night, think the weather will hold fair for date,  
328

40 11 Nest H of 40. with 3 Egg opened and Examined, and afterwards secured one for other  
and a house wren had taken possession built its nest and had on Egg over the  
Chickadee's nest and Egg, which had the appearance of slight incubation,

- 364 2 Nest B at the celestial mine in live Aspen 17 ft from ground
- " C 5 near Hoags in live aspen 8 " " " quite chilly,
- 12 2 D 5 mouth of Lim Creek do 2 " " "
- " E 5 do do 6 " " "
- " F 4 Inhablesome, do 7 " " "

370 visited old nest sites of this species, found they were too heavily made,  
the majority were 5 Egg, some birds gave me 6 Egg last year, these  
were at Hoags and other points on Mountain Crest,

52 have seen each day I have hunted in the thick timber, one to  
three Audubons Thrushes, in such case alone or single,

324  
323 Saw from Penche at Hoags also yellow bellied flycatcher in Prospect hole  
into Pine

June 12, 1889

- 367<sup>c</sup> 12 intending them to nest, saw western meadow lark in the Mts for first time this year.
- 370 nest with young just hatched, in Old Aspen stub 3 feet from the ground, in West gulch
- 369<sup>a</sup> to Providence, - at Bailey's Gulch nest of P. nuchalis 3 & 5 Egg inch 3. in live aspen
- 220 14 feet from the ground, two of the 5 Eggs were quite fresh, Junco Red B. 4 Eggs inch 2. under a small bush of broom, Western Colorado Downy Wood Pecker nest
- 368<sup>b</sup> in half living Aspen 25 feet from the ground 3 fresh Eggs. incomplete in set,
- 368<sup>b</sup> 13 Mount's Gulch, Harris' Woodpecker nest 3 Eggs fresh in live Aspen 25 feet from the ground, Myrtle left its first nest site for another saw it in an old Flicker nest site lower down the Gulch, failed to find it there later on,
- 401 saw Macgillivray's warbler making nest in Mack's gulch saw also this year
- 368<sup>b</sup> nest site at upper end of bog. Septuwards located too late for eggs, nest site of two Mountain Chickadees also near hand in this gulch,
- 40 nest 4 6 Egg inch 2. in dead Aspen 9 feet from ground,
- " I 4 " fresh in live aspen 18 " " do
- " J 5 " do do 13 " " do
- " K 4 " do do 20 " " do Westphong Gulch
- " L 5 " inch 2 1/2 do 4 " " do do
- " M 5 " " " do 8 " " do
- " N 3 " " " do 20 " " do two Egg taken June 2.
- a sixth Egg was broken, so that a set of 6 Eggs was laid by this bird same or later
- 368<sup>b</sup> Nest H. 4 Eggs fresh in half living Aspen 8 feet from the ground,
- 369<sup>a</sup> 14 nest N 5 Eggs fresh in live aspen, 18 feet from the ground, Long Gulch,
- " O 4 " do do 30 " " do do
- " P 5 " inch 1 do 12 " " do do
- 368<sup>b</sup> nest sites 12 and 21 feet from ground in aspen trees Long Gulch with young
- " do 3 feet from ground in Old Aspen stub Smith's gulch with young.
- 290<sup>c</sup> do with young June a week old in same gulch, well concealed in some Evergreens parent bird not very demonstrative,
- 370 nest J. 5 Eggs inch 2. in Old Aspen stub Celestial Mine Meadows Spring Gulch 6 feet from the ground, some pain patronized this meadow last year,

June 14. 1889

- 369<sup>a</sup> 14 Nest Q. 4 Eggs nich 1. in live aspen 18 feet from the ground among Gulch,
- " " R 3 " do do 20 " do do
- " " S 5 " do do 3 " do do near Gate, at Brainerd
- 40 Nest I. 7 Eggs fresh do 12 feet from ground 3<sup>rd</sup> laying 30 ft distant 1<sup>st</sup> etc
- 370 16 Nest with young a nest old, in old Pine tree near at Oscar Johnsons Drive,
- 240<sup>c</sup> nest with young able to fly in Evergreen tree below Oscar House in gulch,
- 369<sup>b</sup> nest with young newly full fledged in aspen California Gulch,
- 370 nest with young in Gulch near at Puffer Mine,
- 40 nest with young in aspen tree north west of Oscar Johnsons House,
- 369<sup>a</sup> 17 Nest T 5 Eggs nich 2 in old aspen stub 5 feet from the ground at sunny side,
- 40 Nest J. 7 Eggs fresh in aspen 4 feet from ground at Phillips' meadow,
- " " K 10 " " do " " do at Puffer Mine near Johnsons,
- believed to be the 2<sup>nd</sup> laying of pair belonging to nest E 31<sup>st</sup> May within a few feet of former site
- 369<sup>a</sup> 18 Nest U. 5 Eggs fresh in live aspen 9 feet from ground, half way up the hill to road,
- " " V 5 do do 18 do Kings Gulch lower Road,
- " " W 5 do do 20 do Reeds lower Gulch,
- 239 Nest a Green tailed Towhee with one Egg on the ground under a bush, Adams East of Kings
- 125 ✓ Nest a. 13 RR Capped Yellow Warbler 3 Eggs fresh set in the ground at foot of Willow
- 323 19 Nest a. Yellow bellied Fly Catcher 4 Eggs nich 2. in rock ledge over Creek near by,
- 93<sup>a</sup> 20 Nest a. Western Summer Yellow bird 4 " nich 1 with 1 Cow birds Egg near Boulder,
- " " B. do only 1 Cow birds Egg do
- 325 Nest a. Little Fly Catcher 4 Eggs fresh 1 Cow birds Egg do
- " " B. do 2 " " 1 do do
- five other nests of this species without Eggs just completed,
- 369<sup>a</sup> 21 Nest 30 4 Eggs nich 2 in aspen 9 feet from ground at Selles' House,
- " " 7 5 " do 12 do aspens at Celestus Mine,
- both these nest sites were in live aspens, Eggs of both fresh and incubated,
- 125 Nest B 4 Eggs fresh set in the ground at side of hummock.
- " " O 4 " nich 1 do near Willow trees
- " " D 5 " do 2 do do

June 23<sup>rd</sup> 1889.

234	21	Nest A Lincoln's Finch	5 eggs fresh set in the ground in the grass thicket,		
"	"	" B	do 5 "	do	do
"	"	" C	do 5 "	do	do
"	"	" D	do 5 "	do	do
537	22	Nest A Spotted Sandpiper	5, incubated 1/2 at Duck Lake,		
206		Nest A White Crowned Sparrow	5. fresh on the ground	do	
"	"	" B	do 3 "	do	do broken,
ya		Three nests of 4 Egg Each fresh,	Lower with 4 young newly fledged,		
125		Nest E	5 " do set in the ground	do	duck lake
"	"	" F	5 " nest 2	do	do
"	23	" G	5 " fresh	do	do
"	"	" H	6 " nest 1	do	Lower meadow
"	"	" I	5 " " 2	do	do
234		Nest E	5 " fresh nest set in the ground	do	duck lake
"	"	" F	5 " "	do	do
"	24	" G	4 " "	do	do
"	"	" H	5 " "	do	do
"	"	" I	5 " "	do	do
"	"	" J	4 " "	do	do
"	"	" K	5 " "	do	Lower meadow
"	"	" L	5 " "	do	do
125		Nest J	4 " nest 1.	do	do
206		Nest C	4 " do in small Evergreen	do	Lower meadow
522	25	Nest A Audubon's Thrush	4 Egg fresh in small balsam 4 fresh from ground.		
"	"	" B	do 5 " do do 7 " do		
"	"	" C	do 4 " do do 5 " do		
"	"	" D	do 4 " do do 6 " do		
223	26	Nest B	4 Egg nest 1. taken in prospect hole near Bond holder,		
"	"	" C	3 " fresh do silos mine near bond		
This nest makes its nest and occupies a site of very varied character captured					

June 27. 1884.

- 323 27 Nest D 4 Eggs fresh near Logger Cabin, dense woods on west slope open oak
- " " E 4 " inch 1 1/2 " " " " "
- 206 Nest D 4 " fresh on the ground Lower meadow,
- 234 Nest W 5 " fresh set in the ground near top of grasses, Lower meadow,
- 125 Nest L 5 " " " " " " " "

52 This bird builds its nest of varied material, they show much difference in the volume of material used they differ much in size outside and in, I find many nests with 1 or more Egg deserted and Egg spoiled no doubt they are mostly sterile Eggs but think if the nest & Egg then only one or two is meddled with the bird forsakes that nest and constructs another, with Egg in a very short time, the young some

28 times do hvy the Egg. found nest with 1 Egg and one young a day or two old  
 431 Nest a Cooper's hawk 4 Eggs heavily incubated left them, high up on South fork of left hand gulch, nest sited upon a bunch of scrub in spruce tree 20 ft from the ground nest made up of sticks upon which the scales of the tree bark in shields as it were covered the sticks no grasses roots or feathers the Egg lay upon the bark scales - the ♀ was very demonstrative and noisy, such thing in a way something like the Prairie Falcon,

234 at Sunny side and Phillips' meadow I could not determine if this species had nests with young, or had not yet begun house keeping, one nest found with young more than half grown induced me to lean to the first supposition but I could not verify it by another visit to these localities.

a pair of song rails I disturbed in the bushes & grasses think they must have had their nest but I failed to find it; altitude - 9500ft.

- 52 29 Nest E 4 Eggs inch 1 in small Evergreen, all within Easy reach near Logger
- " " F 4 " fresh " " " " "
- " 30 " A 4 " inch 2 1/2 " " " " "

26 No nests of this species had nests in the bank of Gold run road to salina, one was empty, and the other had 3 young birds able to fly, they were quite interesting in their appearance they closely resembled our tracks in their color and markings the parent birds were not at hand & responded to their

June 30, 1889.

28- 30

to their cries, indeed no bird seems to take so little care of their nests whether containing Eggs or young, they are never seen about the nest except the ♀ when she is covering her Egg in incubation, after raising their brood, and later in the Season they seem more to haunt the vicinity of their old nest, than when it contained their young, leaving their nests for long periods exposed, care well taken that the Eggs are not exposed to the Sun's rays, I have carefully noted this, the nest is invariably so placed that the Sun never shines upon it, rock ledges and steep side hills are their favorite places for nest sites, but as I have no doubt any site affording the protection necessary from the Sun and rain, will be availed of, the ♂ indulges in some very musical notes, but as I have heard them always late in the fall not in the Spring or thro' the Summer.

July 1

323

Travelled to Boulder found that the Boulder woodpecker has been destroying the nests found of the Little Fly Catcher on the 19<sup>th</sup> & 20 June last, secured only 2 more.

Nest C 4 Egg nich 1 with one Egg of Cow Bird  
 " " 4 " " 3 " " " " three with other empty nests.

122

Nest of Gray lined yellow throat with young, more than half fledged, nest a little raised from the ground which was wet when first constructed.

125

30

Nest with one young, just hatched, and two fresh Eggs, near things broad sunny to S. W.

Nest with young near the site of last years at Duck Lake, and similarly placed, seemingly young just hatched, space the diameter bricks.

129

Nest a Cassin's Finch, 4 Egg nich 1/2 nest on horizontal branch of very dense tree well secured in the lateral, 3 inches from trunk & Eggs distant from trunk to end of branch & very quiet and devoted to her charge had almost to hold her from the nest.


318

Nest a Goutous borealis 2 Eggs, nich 1, nest close to stem of small spruce 24 feet from the ground a small piece of the usual green tree moss in nest which is of moss and side and tablets of middle & inside, the finished nest is of some character of make up, very slight but well and seemed to be put together, very small for the birds, quite light and open to be seen thro' the ♂ is very sleekly had it

July 3. 1889.

- July 3 strike it with my cap to keep it away from me.
- 318 discovered a second nest of this species with young, (3) below or near the Horn bolt mine, high up in a large stone tree about mid way from the stem on a long branch 50 feet from the ground July was in shape to take it 23<sup>rd</sup> June
- 421 Nest of Cooper's hawk had 4 quite white downy little young in it at this date.
- 52 Nest N 4 Eggs fresh in low Ever green California Gulch,
- " I 4 " inch 1/2 " " " " " "
- 229 Nest C 5 Eggs inch 1, nest well set in ground at foot of small tree, left hand,
- 339 Nest B. Humming bird 2 Eggs inch 2. horizontal stone bench California gulch, also <sup>nest</sup> numbered
- 4 Followed down the south branch of Ottercreek from above road to Monte's
- 52 Nest J 4 Eggs fresh nest of dam on the whole distance below rough and useless
- " " 4 " inch 1/2 " " " " " " " " " " " "
- 323 Nest F 3 " fresh nest close to the trunk of an Aspen half in the bank, interesting the Egg of 5<sup>th</sup> N and the latter 323. F all hatched in my collecting box from the snails and grubs and pupae & falls had in going over each rough ground, fallen timber &c.
- 156 The Violet green Swallow seem only now to be pairing, and carrying material grasses in the holes of snags &c. old wood peck and flicker nest sites.
- 372 5 Nest a western night hawk 2 two Eggs incubated 1. very heavily marked and larger seemingly than the Eastern species an olive yellow tinge over the whole Egg, which suffer very much by fading they have the rich dark tone referred to, the nest site and peculiarities of the bird identical with that of the Eastern bird, - 9000 ft
- 401 Nest C. Myiagala acadica 2 Small Egg and young owlets in Old Pheasants nest site in Old Aspen Club. nest 10 feet from the ground they flew off nest upon striking the stick with a stick, and I had quite near, the location was much like that of the other two found in a grove of aspens with some water running thro it, rather dense shade when the trees were in full leaf about the same altitude also 8500 ft the two Eggs were much covered with dirt but made good specimens when cleaned one of the three owlets appeared a week older than the other two when in size & feathering seemed not to differ anything the quills & wing covers and ridges showing, the incipient back covering, showed somewhat dusky brown this 'that'

July 5. 1889

- 401 5 the white down with which they were covered, this however was not dense as with the young for instance of Cassin's Sparrow, the Elder young had some of the darker fine feathers of back and wing Quills also the pin feathers well developed they showed darker and richer than in the parent, a brown less reddish, I had however bright chestnut feathers upon the breast, while handling the young the ♀ she by accident some uneasiness snapping her bill and holding behind and upon all sides of her, and making a noise somewhat like a startled Robin moderately alarmed, (this differs in energy and just when much frightened) she showed much light brown in the heavy streaks upon breast and under parts, legs and feet of a soiled tawny color by no means white, the white gape eye-brows thus in shape going straight up from the upper mandible of. Shaped thus  not so conspicuous as in the other ♀ of previous nest which showed upon the dusky disc a pearly white. - without doubt the early part of June is the nesting time of these birds since if the first nest had been left to hatch, they would almost certainly have had young to correspond with nest No 2. with one young a week older than the other two, this shows the uneven laying of the eggs in periods and the covering of them from the first, the nest site in both cases were roomy and in the latter instance not in the least offensive altho there were several mice, whole and in part, mixed up with the young, no feathers as with our little Sparrow, this little nest to me seems very interesting, how none of the wicked treacherous holes and beavering of the Rocky Mountain Sucker, in neither case did I see the ♀ deal about, the ♀ did not seem to be affected by the Sun light.
- 389 6 Nest D. 4 2nd laying only one egg inch 2 with very slight shell which look like one similarly placed upon horizontal spruce bough as the previous nest also near by,
- 52 Nest L. 4 Eggs inch 1 in low Evergreen, at commencement of long gulch,
- 77 " M. 4 " fresh do at Beaver meadow, In old cedar tree near dam in which were several holes made by some wood pecker, with other birds near two Velvet Green Swallows so I suspended about to see their feeding & disturb them then I put off the examination until my next visit, The White bellied Swallow in same tree had well grown young at this date



July 8. 1884.

- 54 8 Nest with young a well old in Chris Holversens gulch. a warm sheltered place,
  - 234 12 Nest with 6 Egg first incubations, but all chipped with holes, by the King bird's visit,
  - " " Nest with 4 " do. Especially in some condition, left them undisturbed,
  - 125 Nest with 3 " badly incubated uncertain if of 2nd laying, Duck Lake,
  - " Nest with 1 " peak and one young bird 4 or 5 days old on creek below the dam.
- I feel that neither 234 or 125 had 2<sup>nd</sup> nests as in previous years the latter were especially unsatisfactory in having so few Egg at a clutch in no instance was a clutch of 6 Egg obtained from the species this season, and as far as I was concerned, saw a family of White Bellied Nuthatch young as large as adults, fed by their still, the Pine Finch flying round I believe with young one at the gear, located as nests, that they nest early in June at Duck Lake, and should be looked for earlier than hitherto, discovered no less than three nests of Audubons Warbler about this time all with young 4 or 5 days old, perhaps I went should have been looked for about 20 June in two instances my attention was drawn to the nests, by one of the birds ♀ in one case and in the other the ♂ fluttering about me with outspread tail and open quivering wings fluttering and crawling, as above upon the ground, over fallen trees and upon the boughs nearby to attract attention and lead me away from the nest to discover which I had no great difficulty upon looking about me they were near by one in a small balsam close to stem 8 feet from the ground upon side hill, the other saddled a branch of some kind of Cereus 18 inches from stem and about 22 from end of branch, close by a bush road, the birds led to the discovery in both instances but I was not looking for the nests of this species knowing it to be too late in the season, these birds with their nests were certainly on time, altho the weather was so cruelly bad; but I was out on time!
- 234 14 Nest of 234. 4 Egg fresh possibly a 2<sup>nd</sup> laying, which in the case of this as well as in species 125 are not this year clearly determined,
  - 96 two nest with young within 4 or 5 days of leaving nest, in one case the ♀ and in the other the ♂ betrayed the nest, in their strange behavior in both cases the nests would have escaped careful observation, had being low down in balsam trees one within reach, and the other up above 8 feet from the ground, and being observed by

July 14. 1889.

- 96 14 When the parents to lead me away came fluttering round at my very feet, then going off a little and not succeeding, would return flying from the ground to the lower branches of a tree to the height of 7 or 8 ft and then down again so as to insure observation then trailing along the ground again over rocks stones and fallen timber wings held out spread to the uttermost tail bowed in and wings fluttering in a manner the most beseeching to come away. This species as near as I could calculate were on time with their nesting but no doubt among perches with their nests of Eggs -
- 30 nest with young within reach almost, attached to a few small stem twigs near stem of a small balsam suspended or pendulous, the young all flew out when I put up my hand to the nest. by this and a former nest recorded with young this handy brown little bird seems also to have nested on time this year.
- 52 Nest with three fractured Eggs deserted, not infrequently nesting with those desertions I have hunted round for a cause with no satisfactory result, I think it probable however from what I have seen of this species their lonely habits leads to a somewhat want of sociability; of the sexes they arriving first upon the breeding ground has her nest & Eggs before the ♂ comes to hand when the chase and worried begins and continues until a second nest is thought of and finally is the result which may also be assigned as a reason for some of the late nests as late as 15th July I have found a nest with fresh Eggs they begin nesting in favored places as early as 15th June.
- 52 Nest with 4 young, within 3 or 4 days of leaving nest, nest of good solid structure
- 52 two nests taken 4 Eggs each nest 3 on nest branch of California juncos above Red tree which has proved good hunting ground, I believe both these nests that taken were second tryings this season, the song of this thrush is so far as I can make
- 16 out a blending of the Wood Sparrow or Thrushes Chirp - Chirp - Chirp - Chirp combined at intervals with a flute like trill, some males executing this song with greater brilliancy than others, and mostly heard after the departure and before the approach of sun light or I should say, sun set and sun rise, - again I note that the song is not delivered near the nest.

July 16. 1887.

- 5<sup>2</sup> 16 and his sitting mate, and in the dense woods high up near timber line I have often listened for its song with disappointment at this point the Canada Jay and lower down the Blue Jay they know by Experience are to be out witted by his silence - the awful stillness of these solitudes relieved by some of his tribe his cheerful note would sound remarkable.
- 40 Nest in aspen grove, feeding young, at Duck Lake,
- 121 Macgillivray's warbler also nesting in this locality,
- 5<sup>2</sup> 17 hunted left hand from trail up to Park, at either end Thrushes were or had been nesting in several places, found nest with 4 Egg abandoned. Egg broken dry and discolored. Nest with 3 young 4 or 5 days old parents did not show up.
- 5<sup>2</sup> 96 two or three Audubons Warblers had just vacated their nests with young ones,
- 19 did North Eastern Gulch from Old man Duncans house from base of Bald Mt.
- 5<sup>2</sup> Nest with one young bird 4 or 5 days old, and one sterile Egg, found several old nests, being a rainy afternoon could not do the gulch properly think it a fairly good location as also the West Gulch joining above Duncansons,
- 5<sup>2</sup> Studied for Montis on fir creek just below duck lake found nest 5<sup>2</sup> with 4 young in crotch of aspen tree 3 ft from the ground will secure the nest for washing ton, as the fresh nest found other than in a coniferous tree, then backs & heads so sun packed in the nest resembled young Robins, but their White bellies and long buffy colored legs claimed their parentage,
- 361<sup>3</sup> Captured a young, 361<sup>3</sup> is Barnes Gulch, it was being fed still by the Old birds,
- 156 Saw several of this species on Montis barn seemingly not yet hatched, nests or Egg in the old traps around could not definitely locate a nest - there seemed to be continual strife between them and 155 the latter driving the former away from the locality they were breeding in,
- 156 20 visited Beaver Park, 13 days ago I had seen some velvet green swallows attempting as I supposed a lodgment in a old aspen tree in which were several holes made by wood peckers, 155 had a nest with young in one of these sites and kept himself busy driving 156 away, I found upon examination today that two pairs of 156 had nests, one with 4 young two or three days old, and the

July 20. 1889.

- 156 20 with 5 Eggs heavily incubated (4.) the nests in each case were made of grasses some sprays quite green, no feathers, this species breeds the last of our birds as I judge from appearances there are some pairs without nests yet.
- 407 *Myiata acadica* young seen in nest 13 days ago, had vacated and were no where to be seen, mice whole and in parts, bird up. in nest left.
- 96 24 Again went to pond and visited Bernard's Summer Camp found 96 & 30 nested  
30  
52 at head of lake, a rainy afternoon took a forsaken nest of 5<sup>th</sup> made of twigs, grasses and rotten wood, at this point two nests were taken last year, this season 5<sup>th</sup> do not seem to have gone as high up as usual.
- 159 25 discovered Cassin's finch had nested a second time at the top of a small slender Balsam about 4 ft high and only 5 in diameter at base, nest within a foot of top could not drive her off the nest by throwing sticks at it, until a human club that was hastily handled struck just at the nest and they flew off for half a minute and returned to it the next day I prepared a contrivance for getting at the nest, and wishing to determine if the bird was on the nest, after throwing several sticks at the nest, one unfortunately, as before struck the slender top of the tree too suddenly, concluding the nest forsaken I sat me down to lament over the unlucky club delivered at the nest the day before when I saw two birds light upon a large bushy tree close by and one immediately, after reconnoitering, flew directly to the nest and covered it, comfortably settled the 2<sup>nd</sup> who so far had escorted his mate flew away and I proceeded to look and tie things together securely, to aid me in climbing to the nest which after much difficulty I reached, to find the nest empty, now came the question, did I empty the nest each time I clubbed it, or what ever Eggs were in it, or notwithstanding the birds close setting and persistent covering it the day before, did it only brood a second clutch, I fear the former misfortune, however we will see in the next few days.
- 328 took nest near the Cabin at Duck Lake in crotch of small aspen 18 in from ground with 3 Eggs incubated 2. more than a month later than last year.
- 25 learned from Mr Doopl that the young of 25 left their nest yesterday situated out side the tunnel above Democratico's house, Tunnel where road is made at base

July 25. 1889.

- 25 25 *Swamp Sparrow* at the ore, this is two weeks later than nest of *Goldfinch* was, saw several old birds of this species round bend, but was baffled as to where they had their nests, time will demonstrate that this bird like 323 will seek for their nest site anywhere in the shade. Eggs secure from direct rays of the sun.
- 328 26 took second nest of this bird 3 Eggs, each  $3\frac{1}{2}$  in crotch of aspen tree 5 feet from ground
- 327 Saw a pair of *hammonds* flycatchers, but whether they had a nest or not I could not determine altho I watched them nearly half a day.
- ✓ 27 Ascended Bald Mountain saw neither *Snakes* or *Shore larks*, nest with one of *Pteronax* with three young that I saw (about the size of *larks* they flew aimless but were carried by the wind quite a distance, there were doubtless other birds when the others flushed as the mother did not leave the spot was very tame and kept up from time to time a pitiful imploring moan. cul. cul. -
- 476 71 Young of the *tit* but full grown and able to fly.
- 284 *Blue Crow* were somewhat numerous about bend on side hills feeding on insects.
- 471 28 Captured a young *Dusky Grouse* of a covey of 6 or 8 in Spring Gulch, another *Grouse* very tame would not flush the young about the size of *pigeons* flushed but was very stupid, the whole party, mother & young, could have been easily murdered without the aid of a shot gun, if needed.
- 211<sup>4</sup> Found an old nest of the *Western Chipping Sparrow* in South Engren at bend. in make up, site &c. nothing differing from the *Eastern* species.
- Aug 7 In Spring Gulch resting by side of Creek watching a couple of trout 5 & 6 inches long respectively I observed two dull looking snakes similarly employed as my self both about 20 inches long one was partly in the water, watching their manoeuvres I discovered that they were as much at home seemingly in the water as out of it they kept their head or nose above the water I perceived, I did not readily connect their presence in this particular place with the fish, until one of these little reptiles struck at and wounded the larger fish, snatched it so to speak that the fish in terror or in breathing trouble sprang 18 inches above the water in a flying dash I at once killed the snake and here the skin, the 2nd snake disappeared for a time

August 7, 1889.

- Aug 7 sat while musing over the incident, sitting on a stone with my feet almost in the water. I perceived number two just by me creeping in the most stealthy manner over stones and sticks chewing upon the smaller fish within 5 or 6 inches of it then being about 3 inches apart above the fish it struck at the fish but missed it, I went for the snake and altho I did not secure it it must shortly have died from the injuries I gave it.
- 8 Looking at my proteges as I paced back the next day, I discovered a much larger snake of the same species over 3 feet long stout and muscular, of a dull brownish gray color favoring the stones sticks and rubbish in and about the creek, it was most interesting to note the manouvers gone thro with, the wonderful graceful creeping, alternating with the most rigid statue like gait, upon one portion of it in motion, and the rest quiescent, then again the whole in motion, but so slow as to be undecied until its head was discovered coming thro a crack or thro the brush pile, it struck twice at the fish, but with less address than the smaller one, having missed its mark. Each time it changed its position, and I noticed tried to hide its head from the fish. Captured a male weagle in Spring Gulch.
- Sept 10 Traveled to Ward, saw in Spring Gulch W. Gull-crowns + W. Blue-winged Teal + Ruby Crowned Kinglet, Yellow bellied Flycatcher, Swainsons Thrush, Downy Woodpecker, Song Sparrow, Chipping sp, + Junco-Cinereus, saw Poorwill on Gold Hills road.
- Oct 17 Went to Ward Desert, saw a northern shrike, above Pitts Evidently had crossed the Range in the wake of the Junco's + was making for the valley.
- 18 Could not reach Bald Mt. for Ptarmigan snow drifting + dead at timber line, Secured two grouse one a fine male and the other a young female,
- 19 Saw a Swainsons Thrush a little below Pitts, quite late for this species.

Notes in connection with the Rocky Mt. Screech Owl, *Scops asio macrourus*, 402<sup>c</sup> Egg from St. Louis sent to the National Museum Washington with two sets of 4 Eggs each, ejected pellets &c, also measurements of ten sets of Eggs 38 in all averaging, 144 x 118

This interesting little Owl formerly was quite common about Denver but gradually they have changed their favorite haunts among the Cotton wood, Black Willows & Box Elders of the creek bottoms, for shrub areas and muddy <sup>near</sup> creeks, so that the <sup>new</sup> Specimen hunters complain of their scarcity. Scarcely does this Species follow the Creeks far into the foot hills, I have not observed them at <sup>bovapt.</sup> altitudes. Like others of their genus they seem to delight in a sheltered, shady location close to a pond, or creek, where they elect their domicils, either in a natural tree hole, or a Flicker's Old nest site. If for any reason the Flicker wishes to return his previous years nest site, and Scops is in possession, strife between them is carried on with great address, ending in favor <sup>of</sup> as often one, as the other judging from the broken Egg on the ground ejected by the victor. The Flicker does not enter the torn scoop out of hand, but if the premises is vacated for never so short a time, the Flicker enters, and holds it against all comers, his formidable bill pointing out of the door is sufficient apology for leaving him in quiet possession.

About the middle of April is the usual period for Scops to have her Egg, from 3 to 5 in number, <sup>38 in all averaging 144 x 118, the nest is</sup> plain white, usually ~~is~~ a sparse gathering of twig & twigs feathers of small birds, in some instances no litter of any kind is present, <sup>as a rule,</sup> the first 2 or 3 Eggs are laid consecutive days, with intervals of 2, 3 or more days between the 3<sup>rd</sup> and last two, or two, as the case may be, the ♀ is always in charge, and at no time leaves the nest, she is visited upon, and fed by the ♂ who being a skilful hunter, provides liberally <sup>for her wants</sup> fresh flesh & fowl; searching for a nest I have sometimes discovered the ♂ bird in a tolerably well stocked larder in close proximity to the nest site, in one cache raw portions of a Blue bird, a mouse, and a frog, in another a junco, a tree Sparrow and a Meadow Lark, <sup>3 1/2 inches long,</sup> claws and legs of Crow feet was also present. In a few cases I have discovered the ♂ sitting upon a bough close to the stem of a cotton wood tree perfectly motionless with eyes shut, as dead, in deep asleep the pupil of the Eye closed to the nearest slit, but with Ears erect, all done to the danger threatening his sitting mate close by, in this chosen position being in color and moldings so nearly resembling the rough corrugated bark of the tree, he seems to have the fullest assurance of <sup>concealment</sup> protection ~~against~~ observation; ~~and detection,~~

♂ White sitting or while her brood is very young.

The ♀ is a close sitter, <sup>induce</sup> to <sup>chase</sup> her off her nest is a difficult matter unless she has frequently been disturbed, and understands what is meant, when she sees the tree gobbled in climbing it, ~~when such cases~~ she will <sup>then</sup> fly out, <sup>otherwise</sup> generally you have to ~~take~~ her off her Eggs, in some instances she will ~~fly~~ <sup>fly</sup> ~~out~~ <sup>out</sup> and lie on her back in your open palm with her Eyes shut, immediately you throw her off <sup>however,</sup> she ~~rights~~ <sup>rights</sup> herself on wing, and gaining a bough upon a neighboring tree throws her Ears back, and looks very spiteful, wrinkled - another time when ~~scraped~~ <sup>scraped</sup> ~~off~~ <sup>off</sup> her neck she will snap her bill, moan slightly and show fight, both ♂ & ♀ <sup>induce</sup> in the Seneca, which differs but little from <sup>that</sup> the ~~Seneca~~ of their Eastern Cousins, ~~their~~ <sup>sharp</sup> <sup>distressing</sup> notes, can be heard <sup>at</sup> <sup>night</sup> <sup>a</sup> <sup>mile</sup> <sup>dist</sup> <sup>ant</sup>, suggesting to my Ear a human wail ~~of~~ <sup>of</sup> <sup>children,</sup> lately hatched, the young are clothed in beautiful white down, in the latter part of June before they are well able to fly, they may be seen sitting side by side on a limb outside ~~near~~ <sup>near</sup> the nest site, perfectly motionless, they with their parents seem to live an outside tree life for the balance of the Summer, but against the cold winds that strip the leaves off the trees in the fall, suitable holes are selected for their winter quarters



284

Notes on Clark's Gawk, nest and 3 Eggs taken ~~down~~ after my letter in reply to yours of the 20<sup>th</sup> March <sup>informing you</sup> ~~saying~~ I had not secured any nests this season, it was on the 16 April, fully a month previous half a mile away from the site I noticed a bird of this species high up in the air flying over my head I thought I understood the meaning of it and retraced my steps on the side hill I was pursuing but could find no trace of buds or nest I ascended the top of the Mt. and there on a small plateau were the buds directly I was seen by the birds one of them gave out an alarm note and flew away I made a very Exhaustive search without success when I observed one on the buds on a dead tree behaving as if it was trying to break off a twig observing this, I walked some distance away and selected a point of observation in the space of an hour I saw both birds fly to and from a certain point 5 or 6 times and after an <sup>careful</sup> Exhaustive search I found a few twigs laid upon a bough <sup>on the</sup> ~~at the~~ tip of a small Sempley RR tree 12 feet high stem only 6 in diameter noting this state of affairs, I <sup>knowed</sup> ~~went on~~ my journey, and returned to the place a week later <sup>when</sup> one of the birds started from a neighbouring tree giving the usual alarm note, ~~but~~ no additions were made to the twigs I conclude therefore a new site had been selected, my conclusion was more firmly set upon visiting the site still a week later when the few twigs I first saw carelessly thrown together still remained <sup>unmoved for</sup> ~~without~~ being added to, and no birds seen, an Exhaustive search for nearly a mile round discovered nothing no birds to be seen or heard, two weeks later 16 April passing in the same direction I stopped to look at the few twigs as they were all I had found of the nestings of Clark's Gawk for 1889 judge my surprise therefore upon discovering a bulky nest with the ♀ on it covering 3 Eggs, in the mean time I had written you of my non success I think the nest in place has very much the appearance of the one I sent you last year perhaps a little more bulky, it was 4 feet from the ground, Eggs were fresh, a little more decided in two markings than the

than buckrams set, perhaps a little more numerous but of the  
same peppery character.

June 2

Saw the first of this species today again on the 4<sup>th</sup> also a single bird, +

12

Saw each day several out to the birds in every case singly.

20

first nests with <sup>full compliment</sup> fresh eggs at 9:30 AM at 10. & 10:00 two to three weeks later as a rule, <sup>they also differ</sup> egg vary in color, size and shape in the two last particulars often in the same set, from a beautiful <sup>bright</sup> tender greenish blue of a clear semi-transparent character to the <sup>darker shades</sup> of ~~indigo~~ <sup>purplish</sup> greenish Indigo, <sup>4 eggs</sup> <sup>is generally</sup> <sup>will consequently</sup> seem to be the full set, altho there is sometimes the <sup>compliment</sup> and in a single instance I have found five eggs in a set, has followed the eggs of six sets three latter 1888 and the same number latter in 1889.

See p 98, 99, 100

The nests are vary from 3ft to 10ft from the ground in the majority of cases within easy reach, with one exception deadwain trees are chosen, mostly small ones the nest is placed close to the stem, with some exceptions, as a rule very little attempt <sup>is made</sup> at concealment, in the immediate vicinity of some creek, or small stream, Spring or brook is the chosen location, the nests vary in bulk and density, ~~in structure as to~~ <sup>which position</sup> they are ~~the~~ <sup>quickly</sup> constructed, the materials ~~collected~~ <sup>used</sup> are those found nearby, <sup>the site therefore from time of circumstances</sup> consist of twigs, rotten wood, grass and other plant stems, <sup>with</sup> <sup>small</sup> stems or twigs for the outside and fine grasses, moss, horse hair and fine roots for a lining, the inside structure is manipulated in a damp state, one or two of the designated materials noted above may enter very largely into the construction of the almost entire construction of the others.

there is a seeming carelessness in this species with reference to its nests & eggs, a careful watch and guard as with other birds is not shown, even when the young are hatched out, they are not ~~found~~ <sup>seen</sup> in the defence of them, I have stood by a nest of the young callows for half an hour before they ~~came~~ <sup>came</sup> to know of my realizing danger, a proper alarm, concern, and warning was by no means wanting, from this want of vigilance no doubt the Jays destroy many ~~many~~ <sup>many</sup> eggs & young, one if not both <sup>deserted</sup> the nests with the shells, <sup>or</sup> <sup>or</sup> <sup>or</sup> I have no doubt <sup>but whether before or after desecration have no trace of them</sup> the work of three birds, which would appear capricious in these birds after building their nests possible <sup>nest & eggs</sup> <sup>and not discovered by the Jays</sup> <sup>some other</sup> <sup>is account for this</sup> thing, not the nests alone, but <sup>with</sup> <sup>with</sup> <sup>with</sup> eggs, Even when the full compliment has been laid, might I am inclined to think have good reasons for so doing,



I sheltered from the rough winds, but open to enjoy to the fullest the cool soft whispering breath of Summer,  
 and since her cheek is crimsoned by the main ray, with languishing pleasure she rubs  
 its mid deep hand, and receives its golden vesper Kiss.  
 52

here sits in patient devotion the Hermit, within softening distance of the babbling  
 Mountain Stream, the avenue by which the snows of yesterday absorbed the same  
 on the border <sup>neighbouring</sup> Peaks  
 descend, with liquid haste descend to temper here its meridian fervor,  
 Everything is music therefore her mate is silent, tones of poetic taste &  
 habits, fast friends to solitude, they have their share in sweet solitude  
 absorption, sedation.

The typical characteristic nesting habits of this species as I have discovered them, is  
 at an Elevation of about 10000 ft. in a copious park like shelter of surpassing  
 beauty, such where the conditions permit of a liberal growth of timber, rising upon  
 the vertical line of down fickness, (restricted <sup>perhaps</sup> to a few acres in extent, (at times so many  
 acres <sup>embrace</sup> ~~represents~~ the attractions in miniature,) where the angular rocks, the decayed stumps  
 with fallen trunks their prostrate trunks, and the peony mounds and ridges of rock more and

monuments of decay are all covered with liveliest green, with ferns, wild flowers and grasses  
 of linked ~~with~~ <sup>green</sup> ~~underneath~~ <sup>the</sup> whole ground work a softness of  
~~simple bright patches of carpet~~ <sup>repose</sup> ~~green~~ <sup>underneath</sup> the whole ground work a softness of  
 effect that is soothed by the angular trunks and limbs of the trees, at once restful to the eye  
 and peaceful to the mind, here dwells the Hermit. - I note his gliding over this rich

carpet of green, marking his full stops, and his half stops in length and duration suggest  
 his penetrating a sermon upon the harmony of the surrounding loveliness, he acts no  
 folly, thinks no evil, speaks no mischief, wherefore should he be distracted of his  
 home and brood? At present his mate performs her quiet functions in a charming

nest of moss & grasses secured by a few twigs in a small balsam kind by which the  
 genial warmth of July is forcing to infant maturity its young shoots, and the parent stem  
 to a prodigality of perfume; here sits the Hermit in patient devotion, sheltered from the  
 rough winds, but open to enjoy to the fullest, the cool soft whispering breath of Summer,  
 here her cheek is crimsoned by the main ray, with languishing pleasure she rubs  
 its mid deep hand, and receives the gilding of its vesper Kiss. Within easy arms

of her present charge are relics of previous summers which call up past thoughts of its coming  
 labors; within softening distance bubbles the Mountain stream the avenue by which  
 the snows of yesterday upon the <sup>neighbouring</sup> Peaks in liquid haste reach here to temper the  
 meridian fervor, Everything is music therefore her mate is silent, tones of poetic  
 taste and habits, fast friends to solitude, they have their share in sweet solitude  
 absorption, sedation.

the very interesting species

*Hylocichla ustulata* Auduboni reaches our Mountains in the first week of June by the 20th ~~they~~ have paired and have nests with eggs they range in form 8 to 11,000 feet the higher points are reached later from two to three weeks a cold backward season, <sup>likely to</sup> disarranges these dates, they seem to arrive singly and so depart some time in Oct, date of departure also governed by climatic influences, they come and go by way of the Mts like and not like Swainson's by way of the Valley, Auduboni is <sup>has not been</sup> not taken on the Valley at any time that I know of, on the contrary, Unalascas at the Pacific Coast is often captured there.

The complement of Eggs is generally 4, <sup>in number</sup> occasionally three, <sup>a single</sup> and two clutch of 5. Found in a deserted nest, nests containing one two and three young are noted by me, but doubtless the deficiency was owing to sterile Eggs which my Experience with the Church's form is <sup>quite frequent</sup> often met with, the Eggs <sup>unmarked</sup> vary in color size & shape from a clear bright tender greenish blue of the

lightest shades of greenish Indigo. they are laid in consequence days ~~these sets taken in 1885.~~ <sup>measure</sup> 87x66 - 85x67 - 89x67 - 91x65 - 92x66 - 93x66 - 94x67 - 91x66 - 89x65 - 90x65 - 89x64 - 95x70 - 93x70 - 90x67 - 92x70 - 86x66 - 87x65 - 86x66 - 93x66 - 93x66 - 91x66 - 90x67 - 88x66 - 89x66 - respectively.

The nest sites vary from 30 inches to 15 feet from the ground in the majority of cases within easy reach, with one exception found ~~some~~ somewhat isolated in deciduous trees chosen, and mostly small isolated <sup>of the mountains</sup> trees of under growth <sup>+</sup> heavy timber, the nest is placed close to the stem with rare exceptions, ~~with~~ very little attempt at concealment, they vary very much in bulk and density, their construction is rapid, and the material used such as comes to hand most readily, consisting of proper flakes of rotten wood, grass, and other plant stems <sup>at</sup> for the middle structure manipulated <sup>down</sup> coarse plant stems, and twigs for the outside, and fine grasses, proper horse hair, and fine roots for a lining, the chief feature in the make up of one nest may be wholly wanting in another,

+ to my mind Auduboni deserves a singularly discriminating taste in the selection of a nest site, always in the vicinity of water, sheltered, and sunny without being too much so, & always with pleasant, if not beautiful surroundings.

<sup>have</sup> I noted a seeming want of care and watchfulness, in this species <sup>sometimes actual desertion</sup> with  
 regard to their water-eggs, even when the young are hatched out watchfulness  
 is not conspicuous with them; I have stood by the ~~nest~~ <sup>nest</sup> of ~~the~~ <sup>the</sup> Callow wood  
 for quite 20 minutes before they <sup>seem</sup> to know it, longer than I have seen any other  
 a broken concern is manifest and a daring displayed in this defence quite <sup>having</sup>  
 from this want of vigilance I have no doubt both eggs and young are often  
 destroyed by the Jays, one if not both the broken sets found in deserted nests  
 now no doubt the work of these pests, but whether before or after desertion  
 I have no way of knowing, I have examined deserted nests with eggs untouched  
 by the Jays <sup>not so frequently</sup> (quite often comparatively) and cannot account for it unless they  
 knew them to be sterile which circumstance is owing perhaps to the local habits  
 leads to somewhat of a want of fecundity of the sexes, <sup>or it may be</sup>  
 \* Except when pairing or paired they are never seen together I am inclined to think  
 that they precede the ♂ to the nesting grounds, <sup>choose the site and</sup> constructs her nest and lays her  
 sterile eggs, <sup>expended by climatic influences</sup> before her partner reaches the locality, when he <sup>comes up</sup> reaches this being  
 the case, the chase and pursuit begin and a late, the productive <sup>con</sup> square the result,  
 this kind of chasing I have witnessed, <sup>and pursued at striking points as they, quite</sup>  
 oblivious to such matters, details, for the time being.

realizing any danger threatening their young they are very demonstrative  
 and usually they utter a plaintive chick, chick, and the ~~che-wee~~ <sup>che-wee</sup> -  
 ee. repeatedly - The song of Auduboni is so far as I am able to  
 judge a combination of Swainsoni and Mustelina beginning with Or-wee.  
 che-wee. che-wee, che-wee, the former somewhat slow <sup>slow</sup> and the latter then combining  
 short-quick followed by <sup>something like</sup> the flute-like notes of Mustelina, the song in a few  
 cases were given with great power and melody, whereas others performed with  
 less ability, generally the song was delivered after sun set and before sun rise  
 in very few instances at any other time of the day, higher up in the mountain  
<sup>subtides</sup> the melody is not indulged in at least I never heard it, and  
 think to account for this <sup>if it would</sup> it would perhaps be uncharitable to assign  
 to the pair of betraying his home to the Goshawk families of ~~Pencosus~~ <sup>Pencosus</sup> & ~~Cephalotes~~ <sup>Cephalotes</sup>  
 that at this season are teaching their young to <sup>and desert</sup> <sup>Every thing</sup>

Notes on birds & nests 1890. ~~April~~

- March 29 Left Phila yesterday, travelling thro' Ohio, saw Red headed wood pecker, Flicker, Doves and Meadow larks, Flocks of Bl. R. birds and sparrows,
- 30 Travelled by Cook Island R.R. and arrived in Denver Sunday Evening,
- 31 Arrived at Gold Hill Monday Evening,
- April 1 Climbed Mt. Cheyenne saw Last Chick mount, and Red shafted Flicker, and  
284 saw one Clark's Crow, could not discover nest - fear this too late,
- " 4 Searched for nests of last year pair south of Gold Lake did not see the birds searched also to the north of Reed's ranch disappointed there also
- 8 Several days very heavy winds could not hunt,
- 284 9 travelled to trail, saw one bird a little to the East of King's saw hills saw blue birds and also a few Juncos (Amicips).
- 284 10 at trail searched for the birds saw one only north of my work north by saw several Robins, blue birds, and Juncos Amicips 10000ft returning by Spring Gulch saw 3 birds on side hill behind Fritzger house and to the west of it one seemed to gather up something at Fritzger stable and carry it away, 'tis too late to think of finding eggs and I feel the best way is to hunt for their nest localities when building.
- 14 Snowed 13-14-15 & 16 at Gold Hill, travelled on 14<sup>th</sup> to St Francis chapel Egg Baker  
72 saw several flocks of Robins each day 14-15-16. also Red wings some pairs only  
261 males, only a few pairs blue birds, a few Crows, one Swainson's thrush on 16<sup>th</sup>  
24  
292  
42  
402 took nest of Macmillan Owl 4 Eggs feet in stub 10ft from ground on St Francis  
402 15 do do 4. inch 15 ft from ground near Baker's,  
402 16 nest of same above Lichens only one Egg left it to Doves care  
395 took nest of Long Eared Owl, 5 Eggs inch. old nest site 18ft from ground  
402 took nest of Macmillan Owl 4 Eggs feet in stub 7ft from ground,  
487 Least Blue Herons nesting in force 20 pairs at Horv's Little Herons on  
467 on the 15<sup>th</sup> at Macmillan's saw Bogym's roosting with Herons & nests - on the same tree, the Bogym's remained, while the Herons flew away upon my approach at about 120 yards distant, pair of great horned Owls no doubt killed that nested near Horv's, the high winds destroyed many old.
- 405



Notes on birds &amp; nests 1890, April,

- 402c 16 nests and also blew down many old nest sites of *Pruscellaria*, saw no Jays  
 290c upon any of the nests, found the burrow of a little downy wood pecker  
 354a with proboscis hole in it, many flickers were excavating, saw  
 378d and heard 5 or 6 pairs of Doves paired and making their morning tree notes  
 460 had a letter from A. B. Bantlett he captured his two Eyed Eggs on March 21<sup>st</sup>  
 449  
 27 Continuous bad weather, rain, snow & wind from 20<sup>th</sup> to 26<sup>th</sup> & for 3 days before  
 Bad weather, detained also at the Mill arranging the pond & water,  
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- 10 Rail Road to Loveland \$1.50 made the acquaintance of Mr Smith, then  
 349 11 Sunday travelled to Chimney Hollow, to Bantlett's, he procured for me March 26  
 2 Egg incub. he also secured another nest of 2 Egg for his wife - he did not  
 404 secure the Duck Rabbits nest belonging to the pair furnishing the set of  
 4 Egg of last year. In the north of Buckingham's place saw a pair of  
 420 Marsh Hawks building their nest in a Junco, among birds pretty general,  
 13 Secured a small Gopher mouse in long Eared Owl's nest hen's young, 3 eggs,  
 250 14 Captured in Crows Gulch a set of 3 Eggs, slightly Incub. a fourth seemed to have been  
 54 broken by the bird - Pinyon Nuthatch excavating close by, house was in  
 63 same place as 360 a live Aspen stub to one 12 & the other 10ft from ground,  
 15 Captured nest with 5 Egg of Dipper old site Lim creek incubation nearly  
 perfect too much so to Empty the Egg which were lost,  
 20 16 Visited Thomas Gulch, Ruby Crowned Kinglet building its nest,  
 360 Hellen's East of House nest of 360 only 3 Egg did not take them c.  
 370 do do 360 three nests Excavating just began,  
 380 Bismarck's Remote nest of 360 Excavating not quite finished,  
 390 Oscar Johnson #370 close by house in old Aspen stump, Excavating,  
 360 17 Andy Johnson's near house 4 Egg fresh in Aspen 12ft from ground Red B.  
 570 do between Gulches 5, " in Pine 10ft do nest A  
 580 Reed's House fact 5, " in Aspen stub 4ft do nest B  
 18 Sunday  
 360 19 Took Nest C. at Hellen's no additions incub 2. Live Aspen 7ft from ground  
 360 Custom's Nest D Gulch leading to summit 4 Egg incub 3. do " do

## Notes on birds &amp; nests, May 1890

- May 20  
380<sup>h</sup> 57<sup>a</sup> Harrows in particular favor the Gulch's nesting in aspens,  
Nest C. 5 Egg fresh in aspen 8 ft high, left the Egg to see if more would  
be added and to see if after closing the opening made the birds  
would continue to come for them, Fishes Lake - taken 22<sup>nd</sup> in all. fresh,
- 57<sup>a</sup> 21 Nest D. 4 Egg fresh in Pine Tree 12 ft high left the Egg to see if more would  
be added, located Point of Hill above Ditzes May 24. Saw Ben secured the 4 Eggs  
on side hill above Ditzes saw a family of Cooper's, young full grown, newly,
- 121 22 Saw Macgillivray's warbler singing in Ditzes' lower field,  
360<sup>h</sup> Captured E nest 5 Egg incl 4. in the meadow in aspen 12 feet from ground,
- 220 23 Nest G. 4 Egg fresh Democrat hill, flushed bird, secured nest also bird with contents  
25 Nest A. inside get to lime, near Pete Jackson's Chaphouse,  
24 Hunted over leads north Runche and north of Jim Creek found several sets,  
360<sup>h</sup> 26 Captured F nest 4 Egg fresh in dense aspen 9 ft from ground below Providence on East,  
360<sup>h</sup> 27 do G. 4. " " " " 22, do Long Gulch north of St Vrain  
360<sup>h</sup> " do H. 3. " incl 2 do 18, do " "  
360<sup>h</sup> 28 do I. 3. " do do 20, do near Ditz - left hand,  
370 " do J. 5. " fresh dead aspen 3, do Smith's Gulch north of St Vrain  
370 " do K. 5. " do do 4, do Gulch back of Providence  
370 " do L. 5. " incl 3 do 8, do Beck's Gulch do
- 284 " While at Ditzes south of St Vrain I noted no less than three families of Clark's Crow  
they were making much noise regarding much in manner as the egg of the American  
71 " The 2nd birds were making their way to the house at this date,  
328 " Saw several Night-hy Catbirds at Long Gulch & elsewhere, -  
297<sup>a</sup> " Came upon a young brood of the Canada Jay, *Capitatus*, only just able to fly,  
in Combs' Gulch St Vrain, they like Clark's Crow must have nested nearby.  
401 " Captured one Egg of the Saw-whet Owl in old flicker's burrow in decayed aspen at the  
commencement of Long Gulch south there was 3 young of about equal size  
about 2 weeks old, the parent showed good fight, was very open to fly.
- 431 29 While hunting in Gulch north of Bondholder mine, my attention was directed  
to the cackle of Cooper's Hawk; I instituted a careful search in every


Notes on birds nests, May 1890.

- May 29 direction among the thick timber and after some trouble found the nest situated in a moderately dense Spruce tree, and tolerably well concealed about 40 feet from the ground, it was rather badly composed of small sticks, and twigs, the green sprays of the Balsam was well mixed in to the middle structure and lining, in addition, there was to be seen the scales of Spruce bark, upon which the Eggs at this date four in number rested, they were of a uniform tint, white with a tinge of light blue the nest was deep for a hawk's nest measuring 3 inches inside and about 20 inches across and 10 inches high
- 572 nest in old Pine stub on Road or trail to Mountain Chest mine it contained 5 plump young ones, a fresh old also one sterile Egg. 10 feet from the ground.
- 574 Nest A, 9 Eggs fresh, in old Pine, 18 ft from ground North of Providence
- 574 B. 8 Eggs " do 40 ft do near Bond holder mine
- 370 Nest I. 5 Eggs " do Aspen 25 1/2 ft do at Hayes (old site)
- 370 E 6 " do Spruce 9 ft do lower part of Hayes Gulch
- 370 F 6 " do birch Aspen 6 inches do Outcreek Gulch
- 370 G 6 " do do 30 ft do do
- 366 30 Nest J 4 Eggs fresh in old Aspen stub 25 ft do Hayes' left hand
- 366 K 3 " fresh in Aspen tree 22 " do Stacey do
- 431 31 well the Egg this day no addition in number
- 574 Nest C 8 Eggs fresh in old Pine tree nearly 18 feet from ground, near Leck's road,
- 574 D 6 " do do 16 " do Reed's Gold Lake
- 574 E 5 " inches 2 1/8 do 12 " do hill above Andys
- 574 F 7 " do 1 " in old Aspen 14 " do Chas. to south with do
- In hunting 54 at this date one nest with young, one nest badly incubated, one nest, with nest proper unfinished and one nest incubation only complete,
- 40 Nest G. 7 Eggs fresh in dead Aspen stub 4 feet from ground Fishers Lake, Mt Chest
- 370 Nest H 6 Eggs fresh in Aspen stub 8 feet from ground near Hayes' left hand
- 370 J 6 " in old Pine tree 15 feet from ground Jimbleboom meadow
- Nest K

Notes on birds & nests, June 1890.

370							
May 31	Nest H.	6 Eggs fresh	in old pine tree	3ft from ground,	East Andys main gulch		
June 2	I.	6 "	nich old aspen	Stubs 3 1/2 "	do	Oscar Johnsons Gulch,	
574	Nest G.	6 "	nich 2 1/8 old pine	tree 12 "	do	Walsteats Ranch	
None other nests found in this locality all too badly incubated.							
220	Nest B.	4 Egg	nich 4/8 on ground,	Frank Johnsons Gulch	near his House,		
40	Nest B.	6 Egg	nich 3/8 in live aspen	Stubs 36" burrow	near Kellers,		
360 <sup>b</sup>	Nest L.	4 "	nich in live aspen	tree 18ft from ground,	near Permain's Ranch		
31	3	200th nest a. of Kinglets	discovered in course of building	on May 16. Nest with			
		8 Egg fresh,	all in good shape in Balsam & Spruce	22 feet from the ground	near the		
			extremity of a limb 2 feet from the main stem,	well concealed by the laterals.			
40	Nest B.	7 Egg	nich in 36" burrow	in aspen 8ft from ground	Heemans gulch		
40	C	4 "	fresh in	do	do	do	do
574	Nest H	4 "	fresh in old pine	Stubs 15ft from ground	Heemans Gulch,		
574	I	5 "	nich 2 1/2 "	do	12 "	do	do
574	4	J	6 "	do 4 "	do	13 "	do Int Chimp
574		K	6 "	do 2 "	do	10 "	do do
40	Nest D	8 "	nich 1 old pine	tree 14 feet from ground	do		
40	5	E	8 "	2 Aspen tree	36" burrow 15 feet from ground	Montes Meadow zone	
40		F	6 "	4 "	do	7 "	do do Cross Gulch,
361	Nest a	3 Eggs	nich 14. Old Aspen	Stubs 3ft from ground	Andys gulch		
361	B	5 "	fresh semi decayed	do	12 "	do	Meadow Gulch Montes
369 <sup>a</sup>	Nest A	5 Eggs	fresh Live Aspen		9 feet from ground	Montes'	
369 <sup>b</sup>	B	6 "	do do	do	13 "	do	do
369 <sup>c</sup>	6	C	5 "	do do	do	4 1/2 "	do do
369 <sup>d</sup>		D	5 "	do do	do	17 "	do do
369 <sup>e</sup>		E	6 "	do do	do	12 "	do do
369 <sup>f</sup>		F	5 "	do do	do	14 "	do
369 <sup>g</sup>		G	5 "	do do	do	8 "	do
369 <sup>h</sup>		H	6 "	do do	do	10 "	do
369 <sup>i</sup>		I	5 "	do do	do	4 "	do
369 <sup>j</sup>		J	5 "	do do	do	15 "	do

Notes on birds & nests - June 1890.

June 7									
370	Nest L.	5 Eggs fresh	in Old Pine tree	20ft from ground	Peckham				
370	"	4 " inch 2 1/4	decayed aspen	3 "	do	do			
370	"	6 " fresh	old Pine tree	17 "	do	both of birds.	June Creek,		
<p>Captured alive three young just hatched, and carried them home very interesting well feathered, seemed to be of separate ages two or three days between each.</p> <p>Y mark in white leading from root of upper mandible over each eye, a white place under the chin head and back. Plumbeous or light slate tinged with fawn, breast and belly with legs tawny or fawn, outer edge of tail white also white spots on wing feathers, the markings under the chin are rather spots right &amp; left and with the two markings above, define a kind of practice cap thus </p>									
25 9	Nest B	with one egg	and three nest	not quite completed	both on side				
<p>of road in the south bank, on the main road from Gold Hill to Boulder</p> <p>Nest a. found on May 23, remained untouched, altho an undoubted new one, built this year,</p>									
370	Nest O.	4 Egg	inch 3 1/4	in old decayed aspen	12ft from ground	at Keller's,			
370 10	"	5 "	fresh	do	" "	do	Spring Gulch	do	
370	Nests with young at Pecks, and at Trigs above the road							do	do
52	Nest a.	4 Egg fresh	in small Balsam	4 feet from ground	Pecks Gulch	Spring Gulch			
40	Nest b.	7 "	do	in aspen	2 1/2 feet from ground	do	do		
369 m	Nest c	6 "	do	do	4 "	do	do	do	
369 e	"	5 "	do	do	20 "	do	do	Celestial Gulch	
369 e	"	5 "	do	do	12 "	do	do	do	
369 e	"	4 "	do	do	10 "	do	do	do	
369 e 11	"	0 "	do	inch 5 1/2	12 "	do	do	do	
369 e	"	0 "	do	do	11 "	do	do	duck Lake,	
40	Young almost every where, at Pecks, duck Lake &c								
63 e	Two nests 1/3 1/4 1/7 1/6 1/7 18th 1/4 1/7								
431	Nest B	4 Egg	inch	large nest	new in thick Pine	tree in Pecks	aspens,	bird very demonstrative,	
<p>Nest lined with Balsam Sprays, and bark scales 3ft from ground</p>									
55	Nest a.	5 Egg	inch 2	between Bark	and trunk of large Balsam	tree	3ft		

## Notes on birds and nests June 1890.

- June 11  
 725 Nest A. 5 Eggs incl 3 among small sparse willow Alcedon gulch, only nesting at Duck Lake, located a nest there in process of construction, also 239 with 2 Eggs,
- 12 located the nest of Hammond's flycatcher I think, out at Grand west,
- 220 Nest C. incl 5 Eggs Swamp at Duck Lake, another nest with young do
- 220 13 " " " " Swamp at Alcedon, hatching very early this season
- 360 14 Nest M. " 4 " in aspen 12 ft from ground East of Fish Spring gulch, the foregoing was a 2<sup>nd</sup> clutch, hatched out nearly everywhere, The Summer birds Kinglets, Warblers very sparse at Grand to date,
- 557 Nest A. 4 Eggs incl nest of a few stubble on grassy small wet meadow Duck Lake
- 25 Searched for the two nests on Gold Hill Road side, found them destroyed,
- 25 16 Nest C. 4 Eggs incl 1. Side Hill below Commerville,
- 25 17 Nest I. 5 " " 2 obtained from Dan. under rock side hill,
- 323 Nest A. 2 " fresh in Tunnel Gold Hill Stage Road below Commerville,
- 327 Nest A. 4 Eggs incl 2 1/2's Clapham house gulch obtained from Dan, nest 7 ft high scaffolded on limbs close to stem of small half dead spruce tree,
- 290 one long crested Jay's nest taken by Dan, 20/5/90 obtained one Egg the only survivor of 4.
- 162 Nest A. 4 Eggs incl 4 1/2's Western Tanager, spruce tree 20 ft from ground 8.500 ft from Dan
- 122 Nest A. 4 Eggs incl 2 1/2. Ind. Yellow throat nest side of creek in long grass raised from the ground 4 or 5 inches. Nest B. Destroyed by beaver, only 1 raw butting Egg in nest later on found only 1 Egg with contents, two others destroyed and on the ground the Yellow throats had not forsaken the nest.
- 367 Nest A. 3 Eggs incl 1 on the valley near Boulder.
- 12 Nest A. 2 Eggs fresh do do
- 12 Nest B. 4 incl 2 do do
- 93 14 Nest A. 4 Eggs incl 2 do near Babers entrance
- 300 Nest A. 3 Eggs fresh taken near Loveland by Road side,
- 566 With Mr Wm B Smith I visited several lakes in the vicinity of Loveland,
- 565 when I collected the Egg of the Woodcock, Wilson's Phalarope including their second laying, Mr Smith had secured two nests of each species for me previously, which in addition to those I took myself are as follows,

Notes on birds & nests June 1890.

June	19		
565		Nest A. 4 Eggs incub 4	May 14.
		B. 4 "	31.
		C. 4 "	June 14
		D. 4 "	"
		E. 4 "	"
566		Nest A. 4 "	May 14
		B. 4 "	31
		C. 4 "	June 14
580			
733			
749	21		
825			
238			
181			
328	25	Nest B. 4 Egg fresh,	in lake prospect hole near Pecks, barn (Yellow belly).
42		Nest A. 4 Eggs incub 4 1/2	in small Evergreen near bath house at Pecks. 3 Eggs grown
364		Nest 2. 4 eggs incub 3 1/2	at gate in Brainard's Meadow 2 <sup>nd</sup> Day inc same site, as 1 <sup>st</sup>
364		Nest 2. 4 Eggs incub 4 1/2	in Celestial Mine, Salch, same site as 1, being 2 <sup>nd</sup> day inc.
125		Nest B. 4 Eggs incub 4 days	in Celestial Salch same locality as 1, being 2 <sup>nd</sup> day inc.
234	16	Nest A. 6 Eggs fresh	Duck Lake, taken in my absence by Charley Hundnet.
206	26	Nest A. 5 Eggs incub 3 days	in Evergreen 1 foot from ground Duck Lake,
125		Nest C. 4 Eggs incub 2 days	begin to build nest 11 <sup>th</sup> Duck Lake,
125		Nest D. 4 " " "	nest End of fence on Duck Lake,
			3 or 4 nests with young of 125. 2. 3 & 4 days old, about a week to hatch out,

These three nests were all similarly situated, at  
in damp places with short grass about, a few  
grasses in a slight depression in the nest complete

Nests A & B were secured by W Smith about the  
date of Shepherds, C. nest found by my self  
was placed close by the bare bank on the border of  
a small lake just at the edge of the struggling grass & plants a site selected  
a few grass & plant stems are brought together generally in some little depression  
altho late in the season the Coots nests and Egg soft & stumped over, I secured  
several sets, one I saw in which I counted 12 Egg.

At this date the Emerald Duck was nesting plentifully from 1<sup>st</sup> Egg in a floating  
nest, a few sets numbered 5 Egg. Secured several sets.

Noted that the Lazuli Bunting was building their nests on the St Venus, here Salch  
noted the nests at 825 completed, no other mud with Gold finches not yet nesting,  
I was informed that in the Sept hole gathering their nest with young we found.

Notes on birds & nests June, 1890.

June 26

234 Nest B. 5 Eggs badly incubated. all lost, other nests with young at Deer Lake, Pecks Co,

328 Nest A. 4 Eggs do saved only two and they but inattent specimens,

329 Nest A. 4 Eggs with 3 days nest being built 13<sup>th</sup> inst. Saddled on bough of Spruce tree about 14 feet from the ground, Egg yellow ground powdered with dark specks, shell smooth lavender

52 Nest B. 4 Eggs badly incubated nest found with 1 Egg on 13<sup>th</sup> inst. in Englem 5 ft from ground

52 27 Nest C. 4 Eggs with 3 days in Englem 4 feet from ground, nest with Yg. all left hand

96 Nest A. 4 Eggs with badly 2 only saved. nest saddling bough 5 feet from ground, do,

52 28 Nest D. 4 Eggs with 4 ds in Spruce Gulch Dr. of King saw Mill Englem 9 ft,

52 30 Nest E. 3 Eggs with badly Saddled on Spruce bough 8 ft from ground upon left hand

239 Nest A. 3 Eggs with 3 ds in Englem bush 9 inches from ground, hard disct. woodst

220 Nest E. 5 Eggs with 2 ds at foot of small Englem on side hill do do

221 " F. 3 Eggs " 4 ds obtained from Ben. Gold Hill, 2<sup>nd</sup> saying,

323 Nest D. 4 Eggs fresh do do,

323 " E. 4 " " do do,

323 " F. 4 " " do do,

July 1 323 " G. 4 " " taken from Paul Muller brook above Pecks. Barn,

5 Nest A. 4 Eggs with 3 ds. obtained from Ben Gold Hill, in small Englem 3 ft,

328 Nest A. 3 Eggs with 2 ds in Spruce saddled on bough 40 ft. at Horn belt mine

96 Nest B. with young in Spruce, built close to stem Horn belt mine,

42 Nest B. 3 Eggs with 3 days close by, built on left hand in bunch of Soff maple,

12 3 Nest A. 3 Eggs fresh in low bush on the St. Kerame Creek

12 " B. 3 " " do do

349 Nest A. 1 Egg fresh, shell of another on ground, nest in dense bush well hid by weeds 1 foot from ground, a fresh nest of this pair I saw building on 2<sup>nd</sup> June was abundantly nearly finished in low shrub 17 inches from ground quite conspicuous, small bunches of wild Cotton Entered into the construction of this nest. Both sites were similar to those chosen by 325. nests however are less compact in their make up, grasses & inner bark chips were used in middle structure. and lining, had horse & cattle hair this species nests late from beginning to 10 or 12 July probably,

325 Secured several nests of this species, nest sites, none above 4 ft from ground



## Notes on birds &amp; nests July, 1890.

- July 3 nests differed somewhat, some had large quantities of cotton showing on the outside while others showed none, but instead the usual wild hair, in their lining. Sometimes horse or Cattle hair was used alternating with fine grasses, various kinds of bushes were chosen, Rose, willow and other shrub bushes, found two empty nests just completed, two with 2 Eggs in each, two with 3 Eggs in each. Six with 4 Eggs in each fresh & slightly incubated, two badly incubated & two with young.
- 325 Nest A 4 Egg fresh
- 325 " B 4 " do
- 325 " C 4 " do
- 325 " D 4 " 2<sup>nd</sup>
- 325 " E 4 " 3<sup>rd</sup>
- 325 " F 4 " 2<sup>nd</sup>
- 325 a completed nest of this species found on the 28<sup>th</sup> June had at this date 8<sup>th</sup> July only two Eggs of the Cow Bunting in it, possibly the bunting destroys the Egg of the Fly catcher.
- 5<sup>th</sup> 6 Nest A. 2 Egg damaged and badly incubated, nest on stump made of dry spring plant stems with hemp etc, location on the dry almost tree and shrub less side of Hill west of Gold Hill, far from any quick places or water, reported birds at mol. stage.
- 311<sup>a</sup> 8 Nest A. 3 Egg each 4 days in Pine Shrub 3 ft. and about 10000ft nest empty, 30<sup>th</sup> June,
- 206 9 Nest B. 4 Egg each 3 days in small Eragrum 2 inches from ground at Myprot,
- 239 Nest B. 3 Egg fresh in low Pine bush bushes from ground, and dust.
- 42 10 Nest C. 4 Egg badly incub. all back in small Eragrum, 5 1/2 feet, at Beaver Meadows,
- 156 Nest A. 4 Eggs do two only saved in a open old 30g<sup>th</sup> burrow safe, then near other pairs breeding in Cornis & Missi's field, but earlier nesting than the one I took
- 206 12 Nest C. 3 Egg fresh in low Eragrum 8 inches from ground, exact date,
- 321 Nest A. 3 Egg badly incubated, swaddling pine bough with bark on it, 12 feet from ground,
- 30 hatched to Little Thomson in reach of nesting date of 18<sup>th</sup>.
- 181 21 Nest A. 5 young partially fledged within 4 or 5 days of leaving nest, located in Box Elder 11ft high, nestled on outer branches, composition of nest wool on outside grasses for middle structure lined with Cotton & thick down. Nests just finished no Egg in box Elder towards outer part of tree more of a hanging nest than a specimen - beautifully felted lining wool. Cotton inner bulk vs down, lined with Cotton, great irregularity in the nesting

Notes on Birds & nests July 31. 1890.

July 31 of this species, at least three nests shown by these nests a & B, birds very shy and seemingly indifferent about their nests, nests must be looked for, with little reference to the bird, in the dense foliage the nests are difficult to find, the same tree chosen each year it would seem.

1020 20 Flycatcher unidentified 2 Egg nests 4 days in Center of Box Elder Clump 8ft high nest in make up similar to 328 but larger and more dense with coarse grass for middle structure, inner bark also used, Cotton on outside lined with fine grasses & horse hair, alarm note of bird much like the Blue Martin but note so loud or screaming, bird looked much like the Wood pewee, about. size of a pair nested in the mill, hatched out 2 single young one in left the nest 25 July, on the 28th the old nest was repaired, and on the 30th nest 3 Egg of a second clutch were laid,

150 Deer 6 Saw large flock of northern waxwings Chief Mt side, captured two, near Gold Lake, saw several robins feeding on berries of the winter green 8 visited road captured 10 northern waxwings Celestial side hill they were feeding on the berries of the winter green, they were very fat, climbed Bald Mt. snow too hard, could not track either grouse, or Ptarmigan and therefore did not see any of either species.

379 13 *Glaucidium gnoma*, a specimen taken in Baldheads gulch (above) ♀ (juv) shot thru the eyes with rifle shot A.B. stomach contained remains of mouse or shrew, in good condition fat. Bill & toes yellow, the latter with bristly hair upon them, nostrils prominent, orifice round. claws sulphur greenish at base claws black points greenish at base. - upper parts head, back, wing coverts & tails light amber, primaries & secondaries of wings bright reddish or ferruginous with markings appearing as spots from forehead to tail end of various shapes & decussations, white & whitish thickish & most distinct on forehead disposed on wings & tail somewhat as interlaced bars, under tail & wing markings the white parts more decided - a formidable array of bristles entirely surrounded the mouth at the side anterior to the eye longish & chestnut, black pointed with white base, the lower

Notes on Birds & Birds Nests Jan'y 1891.

nearly to posterior corner of eye whitish ochre, intermediate between this patch and the eye, a space of half an inch speckled over. On crown merging into the tint of back part of neck, below this is a crescent dark brown greyish in front hoary on the sides, & back with black markings very decided. Each side the center of back, below this is a whitish region descending to the chest, flanked on either side is a mottled or speckled patch of an intermediate rich tint of back & wings, joining underparts and above the general upper tint. From throat down round to under tail coverts silvery white with longitudinal dark almost black bands. Edge of wing shoulder, showing in front conspicuously silver white, white under wing coverts - have a pale ochreous mark. entire length 7.10. wing. 4. tail 3.25.

2002  
879

Jan 20

A ♀ specimen brought to me by a boy living near the American War code 402. said he killed it with a net, his attention was drawn to it by noticing his endeavor to get this the wind on to his cage bird this specimen like the other measured in the flesh 7.50 in length, 4.25 length of wing & 3.00 length of tail primaries & secondaries of wing. Especially the latter with tail feathers somewhat frayed no doubt from tumbling in thicket & bushes, it was in fine condition quite fat, and had in its stomach a full grown mouse two thirds digested it was warmly feathered - it has been winter weather, with snow covering the hill sides a foot deep for over two weeks, which I think proves this species to be hardy and withal a great for food.

The yellowish portion of Bill & feet not so bright as decided as in the ♂ specimen in all other peculiarities of their markings they seem to be identical, the collar in both reaching entirely round the neck, hoary grey mixed with black cutting thro' the dark upper tint, white in front, below the dark crown mottled of somewhat lighter tint than that prevailing the upper parts, and reaching up nearly to the chin - in front the collar at the base of throat widens in the center and runs down into the white of center chest & belly, in both specimens the upper surface of primaries & secondaries (the latter most decided) has a warm wash of ochreous or rusty tint in marked contrast to the general upper tint, the white tail bands are interrupted in each feather showing a spot varying in size upon

outer edge of both necks.

Notes on Birds & Bird's nests March 1891.

24

March 15  
150

Saw the first Blue Bird above Fitz's.

April 5

Saw a flock of Bohemian Waxwings on Mountain side above Mill,

370 10

first appearance noted of RR Breasted Wood pecker near Reddy mine Mt. Chief later on two or three days afterwards, all males, each were busy tapping their alarms upon some dead limb or tree top thus ..... the middle taps running one into the other a continuous rattle, of short or long duration, while some were long stationary tapping & rattling at intervals, others were restless flying about and alternating the above tapping and rattling with the call note - pe-ouch - which becomes very frequent and annoying at the love making stage, these males were impatient, (at least this action seemed to suggest it) for the arrival of the females or they feared they might be undiscovered to them, if not demonstrated; The male is a most devoted male, and therefore very jealous, in excavating burrow, and all other household duties he does the greater part. They favor the same locality for nesting consecutive years, as a rule they make a fresh burrow each year, occupying some times the entire old state, and generally conspicuous,

284

Saw one bird Int Chest. a ♂ acting strangely hunted for nest but could not find it could not tell if he was building or if his mate was sitting, in connection with their nesting they exercise great address by not showing themselves, I am of opinion their nesting this season is much later, so much storm and snow has rendered it almost impossible to hunt for their nests.

6:30  
May 5

just arrived at Gold Hill saw a ♂ Kinglet in sick-shilled gulch saw also on the date Audubons warbler seemingly just arrived, rather late this season,

96

hunted on Gold Hill Ridge, several black birds arrived a week ago,

57

Saw a pair mated but not yet hatched, found Robin's nest & egg fresh, no egg laid yet by the RR breasted wood pecker, did not locate a single Harris, saw a few Audubons warblers but they were not nesting

30

Artich blue buds were nesting saw several pairs so engaged,

46  
24

Notes on Birds & Bird nests May, 1891.

- 236  
63<sup>e</sup> White-crowned Sparrows, and some house wrens (nesters) saw no 369<sup>e</sup> any where their coming seem delayed, discovered a very light variety of the Great Horned Owl fastened to the burl of a wire fence, seemed to have met with the trouble some time last winter while hunting for Rabbits' holes, Hellers Gulch, a sheltered and impregnable place.
- 445
- May 19 Nest with 4 Eggs A side of Road from Lethbridge to Gold Hill, fresh
- 25 25 Excavation in Earth only, side of Road below Bell Cloud Mill
- 25 26 do do do going to sunshine,
- 240<sup>e</sup> 25 A Nest found by Cy. Shaver near Carl Gardner Drive, Eggs destroyed.
- 240<sup>e</sup> 27 B do Party 5 Eggs two of these Eggs saved by Dan,
- 574 29 Opened a nest site the Excavation was finished but no nest yet saw others Excavating in different places on hill of Mountain Chick,
- 178 27 nest just beginning Whitcombs Gulch in spruce tree took nest 5 Eggs fresh June 8.
- 370 Several sites discovered Excavations not finished yet, some on 30<sup>th</sup>
- 360<sup>e</sup> 29 Nest no Eggs yet, under Johnsons Lake in aspen 10 ft from ground, not yet commenced to build, on Gold Hill Ridge,
- 96 30 could not discover at any point that this species had commenced to build yet,
- 40 A nest with 9 Eggs incubated 3. in small aspen 30 inches from ground, near Johnsons,
- June 2 Nest B. from Dan 4 Eggs fresh Whitcombs Gulch,
- 25 270 " Nest U. 4 Eggs fresh from Dan,
- 574 5 Nest a. 4 Eggs fresh from Dan 5 Eggs were broken only two saved,
- 370 6 Nest a. 5 Eggs fresh in Peto's Lake,
- " Nest B. 3 " " do same date Nest incubated + Hooper,
- " Nest C. 3 " inch 2. Hill above Fritz's,
- 40 8<sup>th</sup> Nest B 8 - inch 2 Spring Gulch, near Packs trail,
- " " C 9 - fresh Celestials Gulch,
- " " D 8 - fresh West Lake,
- 125 This species only just arrived with other common birds at Duck Lake
- 30 nest of kind indeed everywhere I went yesterday & today I noticed an unusual paucity of birds notably the Ruby Kinglet and Indubious
- 96

Babler

## Notes on Birds &amp; Bird's nests June 8. 1891.

- June 10 370 Nest of 4 young at Bancroft's Ranch.  
40 " Nest with young Red Hellen's Gull tr.  
30 " Saw a ♂ bird of this species in Keenan's Gulch, male perhaps sitting

## Notes on Birds &amp; Birds Nests, May, 1892.

1892

May 19

$$\begin{array}{r} 34 \\ 748 \\ \hline 782 \end{array}$$

Mountain Chick from Mills along the log road and down by Kings Gulch, sounding their nesting sites and chasing each other away both interested in same tree.

$$\begin{array}{r} 358 \\ 418 \end{array}$$

Flushed this species twice, on side hill, south of road up Kings Gulch.

$$\begin{array}{r} 265 \\ 754 \end{array}$$

Saw a pair up from Altors mine yesterday seeming to have nest, thereabout.

$$\begin{array}{r} 96 \\ 658 \end{array}$$

Saw a ♂ of this species near Slough to home on road to Gold Hill,

$$\begin{array}{r} 510 \\ 707 \end{array}$$

heard the nesting note of this species, at Mountain Chick Tunnel, did not see it very windy and unpleasant great paucity of birds but weather for last 2 weeks.

20

$$\begin{array}{r} 30 \\ 749 \end{array}$$

Saw pair at Heumanns not nesting yet a difficult matter to procure food.

$$\begin{array}{r} 500 \\ 799 \end{array}$$

Saw this species on side hill near ditch between Heumanns - Echers

$$\begin{array}{r} 40 \\ 738 \end{array}$$

pair of this species excavating in rotten aspen, dividing the labor between them, carrying away the chips 15 to 20 feet in three months, before dropping them -

$$\begin{array}{r} 370 \\ 407 \end{array}$$

♂ of this species excavating in old aspen stump, later female appears to do all the hard work and most of the incubating and feeding of young.

$$\begin{array}{r} 30 \\ 749 \end{array}$$

Saw pair at Echers in spruce tree such as would afford good nesting site. They seemed to be feeding upon some minute insect on thin larch and at the same time was looking to make the best choice of a nest site, for the examination was most minute, this accounts for its being so securely fastened & hid from the omnivores. I watched her on tracing movements confined to a few feet on the same few branches, now and again her mate would join her his bill back & by creek flashing luminous in the sun. -

26

$$\begin{array}{r} 31 \\ 749 \end{array}$$

discovered ♀ at Heumanns building her nest, visited Echers gulch but could not see anything of the birds observed there a week ago they were probably feeding in the sheltered place before moving further up rather cold & windy with snow banks in places below 10000 ft.

$$\begin{array}{r} 32 \\ 727 \end{array}$$

Saw a pair of this species at John Andersons having numerous and lively chirpings, visited many localities old haunts of this species without seeing or hearing any. all nesting very backward - clearly nothing will be found difficult of detection until less windy & warmer weather prevails.

28

$$\begin{array}{r} 30 \\ 749 \end{array}$$

Saw a pair near Pecks stable, wind blowing too strong to note any indication of nesting and rather inclined to think they were not.

$$\begin{array}{r} 25 \\ 767 \end{array}$$

Saw 784 tower bank at Gold

Notes on Birds &amp; Birds Nests - May 30 1892.

- May 30  $\frac{25}{757}$  Cold will road searching for nest site, more than probable carefully viewed the whole side hills road to Selma without discovering either nest, but or prepared site. upon entrance to foot hills from Boulder saw several 607 near old rail road track a mile East of Boulder & captured nest of 4 eggs each of 505 male fledged from it 30 feet in front of me, observed its mate flying widely about nearly half a mile from North to South did not observe any distress at seeing this, nest visited and did not hear this peculiar hoarse rattle from horned Lark, from birds that were paired at different points round the lake none of them indicated having nests they seemed to be busy feeding perhaps 10 or a dozen pair, the ♂'s worked occasionally and moved on a short space and went on feeding <sup>the ♀</sup> is a beautiful bird and seems to be 605. I watched a large flock of these birds swimming about in the Lake among and from shore, of these the paired couples did not seem to pay the least attention or join in their gambles, before I left the lake this flock of fully 100 birds took flight and for half an hour performed some wonderful evolutions headed by a handsome leader the drill was wonderful round the lake, crossing it taking the entire width of water in zig zag, when at full flight suddenly reversing the order of flight when for an instant the whole would come an irresistible mass and while the eye is filled <sup>with this</sup> seeming disorder each bird seems to drop into its former place and observe the strange flight again. This maneuver was evidently to call the attention and afford the opportunity for all those so inclined to join in a further flight. then seemed to break at this point took no part with the restless crowd presumably they were conveyed to this point when they dropped out of the ranks, to join the merry crowd next fall upon their return south.
- $\frac{122}{681}$  Saw a ♂ on old R.R. track. Saw & heard  $\frac{934}{652}$  also several  $\frac{321}{462} + \frac{204}{144}$ .
- $\frac{480}{316}$  Fledged a dove from nest on the ground with two young doves 4 or 5 days old.
- $\frac{261}{498}$  Prebuilt several nests near Boulder, took from one nest 2 eggs and 1 young and left
- $\frac{258}{491}$  4 eggs of the species 498.
- $\frac{307}{444}$  Saw several of this species also  $\frac{34}{462}$ .
- $\frac{456}{312}$  Saw a pair of Barn-tailed Pigeons at Fritz.



Notes on Birds & Birds nests, June, 1892.

- June 2 <sup>30</sup>/<sub>749</sub> This species building nest in Pine tree at Beck's, nest B.
- <sup>270</sup>/<sub>404</sub> took nest a. 5 Eggs fresh, above Ulica mine road dist, nest a.
- 3 <sup>96</sup>/<sub>657</sub> This species building nest began the day previous, behind Priest, nest A.
- <sup>125</sup>/<sub>685</sub> This species building nest just began meadow behind mine, nest a.
- " do do Duck Lake, finished 5<sup>th</sup> nest B.
- <sup>30</sup>/<sub>749</sub> This species building nest, Spruce tree in Snow bank do do 8<sup>th</sup> nest C.
- " do do do do do 7<sup>th</sup> nest D.
- 4 Wind, Rain & Snow, cold & windy, 65° very shy in building nests, Saturday.
- 6 <sup>30</sup>/<sub>404</sub> took nest B. 5 Eggs at Oscar Johnsons 2 Eggs seemed incubated 2 1/2 hrs but new fresh
- <sup>40</sup>/<sub>738</sub> took set of 6 Eggs fresh from old patched up burrow at Oscar Johnsons set incubated no parents to be seen 4<sup>th</sup> year breeding in same burrow, 10 days later than last year.
- <sup>30</sup>/<sub>749</sub> Climb'd to nest a at Heenanmans it contained 1 Egg seen on birds about, nest set concealed in Spruce tree 50 feet from the ground it must have taken the ♀ who alone works 15 days to build it.
- 10 <sup>96</sup>/<sub>656</sub> A nest finished building 8<sup>th</sup> - discovered B. nest building saw no nest I think. it was finished on the 10<sup>th</sup> crossed the lower portion of Bald mountain from Douglas a long climb over much snow Audubons Warbler in this white wilderness saw no Kinglets with them nor any in Left hand part under Bald Mt. seemingly they had not ventured so far up. A. Warblers were fairly numerous about mound but could not corner them with netting, yet very difficult to secure nests of the ♀.
- <sup>125</sup>/<sub>685</sub> had a glimpse of a single bird of this species, at bridge Left hand part very windy & cold I was mistaken in supposing this species were building on the 8<sup>th</sup> inst, they were doubtless accompanying holes to sleep in; at the time I believe the ♂ only had arrived up to the 10<sup>th</sup> I have not discovered that any true birds nest building had begun.
- <sup>52</sup>/<sub>759</sub> discovered this species constructing her nest probably began on the 5<sup>th</sup> nearly completed by day 10<sup>th</sup> Inst in Willow tree 30 inches from ground, at junction of parent stems, on side of one of the stems, the building chiefly if not altogether done morning & evening noticed this and others of the species accompanying over the snow banks in the timber.
- <sup>169</sup>/<sub>578</sub> came upon hole of this species building nest began probably the 7<sup>th</sup> yesterday, very slow in building, quantity of material scant, quite fearless, carried on her labor as I

## Notes of Birds &amp; Birds nests, June 1892

- June 10 <sup>164</sup>/<sub>578</sub> Sped of the nest, exhibiting dash and urgency towards any bird approaching her nest placed 10 feet from the ground. I believe I saw with material in her mouth another ♀ but seeing her only once I could not determine the nest site, location in the fresh timber spared by the Choppers and west of Rivok. This last note made to-day.
- <sup>572</sup>/<sub>727</sub> at this same point I saw a pair of Glinda billed Nuthatch chiving in about seemingly without Egg at this date 10th June.
- <sup>40</sup>/<sub>738</sub> Pair at Duck Lake on the 8th had no Egg yet, the pair were driven away from last years site by pair of Blue birds who held forceable possession.
- <sup>389</sup>/<sub>432</sub> Saw the first and only humming bird on the 8th June.
- <sup>471</sup>/<sub>297</sub> flushed a ♂ at my feet almost near Lethland & Lin Road, and St Veran's ditch.
- " flushed a ♂ at Redo Brumands farm near Thunders mine on June 2<sup>nd</sup>.
- at Lethland Creek saw flycatcher <sup>316 328 327</sup>/<sub>437 462 468</sub> & I think <sup>226</sup>/<sub>467</sub> at Duck Lake,
- <sup>165</sup>/<sub>523</sub> in the last 3 days saw one or two pair of this species flying round.
- June 14 <sup>125</sup>/<sub>655</sub> Nest A & B. 4 Eggs Each sawer same side of Willard's Duck Lake
- <sup>125</sup>/<sub>655</sub> Nest C. <sup>4</sup>Eggs. some measure site when I saw the bird preparing nest, on June 3. this species build their nests and keep away from them, soon to the 3rd Egg after which the bird comes thru constantly to the three nests just noted each bird was flushed on 4 Eggs they were left undisturbed to see if there will be any additions, other pairs in same locality had nests & probably Eggs but the birds were flying about feeding, seeming to have no nests or other cares, I notice this with most other birds.
- <sup>54</sup>/<sub>759</sub> Nest supposed to have begun construction on the 6th seemed lined & finished on the 13<sup>th</sup> one nest in building. this date 14th there was one Egg in the nest.
- <sup>30</sup>/<sub>769</sub> Nest C. had 3 Eggs in it and nest D, had 5 Eggs in it, parents absent but near by with an Egg upon their breasts in case of danger, this however in no way leading to discover it, <sup>occasionally</sup> ~~momentarily~~ as by accidently walking to and away from it, making no sounds, in their brief gambles at fly catching, they are quickly on hand and very demonstrative when the nest is examined and still more when the nest is taken,
- <sup>96</sup>/<sub>756</sub> Climbed to nest A. there were 3 Eggs. commenced building on the 2<sup>nd</sup> & 4-10 day in its construction neither parents showed themselves, no doubt they were watching me two or three hundred yards

## Notes of Birds and Birds nests June 1892.

- June 14 <sup>96</sup>/<sub>856</sub> away, after construction, until the full complement of Eggs are laid, that is not as sign of them about the site, the ♀ does all the work of constructing nest while the ♂ is hid in a neighbouring tree and in case of being watched, flies off to the ♀ who desists in her labor, till the intruder has moved away, seated at a distance of 200 yards one or both birds will fly over and reconnoitre, generally the ♂, and when satisfied of your bad intentions will separately fly a long way distant in a manner to suggest a non return to the locality again, they seem to select as a rule their situation is likely, small isolated patches of timber, or single trees from whence they can see in all directions in most cases the nest is so well hid, and from the fore going the birds afford so little assistance, when they do not positively mislead, that their nests are exceedingly difficult to discover, the ♀ will stop in her labor, and fly catch, appearing the same as others so employed, who being at so higher altitudes, and are putting in the same time until their intended locations has their surroundings propitious for their going thru -
- <sup>169</sup>/<sub>878</sub> Climbed to nest began 7th but it seemed completed, a neat nest, center and bottom of nest more dense than usual, no parents at hand. saw a ♂ and two ♀s not nesting.
- <sup>38</sup>/<sub>459</sub> Nest of Finch on Lophocarpus near Green timber near the Opera building, nest upon leftmost branch of small tall Olive Green tree, stem at point of nest site not over 1/4 in diameter, 35 feet high, seeing no possible way of climbing it. I cut the tree down into the chance of a more reasonable selection being made for a second nest site, the nest had 4 or 5 days work done on it, the material, used was coarse very soft with the usual modicum of fine moss in its composition.
- June 16 <sup>30</sup>/<sub>749</sub> took nest A. at Freeman's in Spruce tree 60 feet from the ground only 6 Eggs on the 6th this was one Egg. an insufficiency of food probably some had after 4 days being eaten, Estimate of food left from stem, in chopping the branch before securing the egg altho carefully done the jar fractured 2 of the Eggs the Eggs were all fresh. I do not think the full complement was attained.
- June 17 <sup>30</sup>/<sub>749</sub> took nest at Peck's in sea-tailed pine saddled on horizontal branch 22 feet from ground. ♀ just beginning to get fed by ♂ each time supplying food like the slender-billed-mut-ditch upon approaching nest site greeting his mate with a peculiar chuckling this being an aid to discovering nest by his frequent pourings to and from the nest, 8 Eggs fresh 2 hatched.
- <sup>120</sup>/<sub>738</sub> Nest B. old site near gate at Hammond meadow 6 Eggs fresh on egg-balls, very late laying. this year not finished the complement of clutch. nests 2 3 4

Notes of Birds & Birds nests June 1892,

June 7 <sup>125</sup> 685 Nests a, B & C with 4 Eggs on 14th last than this date a & B from 4 fine Eggs respectively C also 5 Eggs full complements I think.

June 18 <sup>52</sup> 579 nest of one Egg on 14th contained 3 Eggs this date, not covered later in afternoon, nest by left hand Paul saw a few Kinglets & Audubon warblers, Experience in this factory could not determine if nest building had commenced with them, they were not numerous, warm weather with a few mosquitoes I may say the first warm day at this point,

June 19 <sup>125</sup> 685 discovered several of this species most of them very recently arrived D. building nest just commenced, others acting as if selecting sites in all bushes & spruce, at such date I saw nest B. F. G. T. 5 Eggs Each no doubt some of these as they were all fresh would have had 6 Eggs the full complement, nest H of 4 Eggs in, left thus alone discovered a pair building nest newly finished no doubt one whose nest was spoiled on 17th think with great reason it was the pair of nest a.

June 20 <sup>50</sup> 749 Took nest D. with 5 Eggs on 14th in spruce tree such date lowest branch 7 feet from ground, 3 Eggs fresh, unfortunately broke 5 Eggs by upsetting of nest, began to set.

June 21 <sup>52</sup> 679 Took nest a. 4 Eggs fresh. 3 Eggs on 17th bird sitting on Eggs all day, beautiful <sup>non-singing,</sup> eyes large &

June 22 <sup>234</sup> 583 Took nest a. 5 Eggs fresh such date. this species very few this season in nest I see none

June 23 <sup>44</sup> 678 Climbed to nest a. discovered 3 Eggs covered by parent, thro' the fence saw light, bird very tame,

June 24 <sup>96</sup> 656 Took nest a. 5 Eggs yesterday evening only 4 Eggs over bird the extreme timidity of ♀ who hopped upon the nest over my head 12 feet from the ground led me to suppose another Egg was forthcoming the ♂ kept close by me during the operation of sawing branch off with nest, did not do ♂ at all. ♀ discovered little or no dishes. Climbed to nest B. no Eggs to date,

June 25 <sup>318</sup> 489 this species a nest began in tree cut down on left hand creek seemingly has vacated the locality, saw another bird this morn. near Stouten mine, no doubt nest is or will be located in this neighborhood.

June 26 <sup>125</sup> 685 Nests D & H, 4 Eggs Each incubated 3 days, such date

June 27 <sup>224</sup> 588 Nests B, C, D & E fresh and slightly incubated 4 Eggs each do,

June 28 <sup>20</sup> 749 Took nest C 8 Eggs fresh such date 20 feet from ground saddled on spruce branch 5 feet from main trunk, nest D. again nesting.

June 29 <sup>169</sup> 578 Took nest 5 Eggs slightly incubated, believe this to be <sup>170</sup> 579 House finch, the following day this bird selected a new nest site, the small slender tree selected was such that I cut it down, perhaps a more reasonable tree might be selected.

Notes of Birds & Bird nests. June 1892.

June 22  
220  
589  
318  
454

Nest A, 4 Eggs incubated. Sack Lake, 579<sup>2</sup> again nesting same pair,  
Nest B. above slaughter house pond in Spruce tree, 38 ft from ground 3 Eggs incl 1 1/2.  
one Egg slightly injured. no lark of the moss in composition of nest,  
Nest C. of 18<sup>th</sup> June tree cut down, nest seemingly complete on June 24<sup>th</sup>.

June 23  
52  
579<sup>2</sup>  
328  
469  
206  
557  
96  
656

Nest B. 4 Eggs fresh left hand Paul, in small Spruce tree 3 ft from ground,  
Nest D. nearly complete in small Spruce tree 2 1/2 ft from ground,  
Nest A. two Eggs in Spruce tree 3 ft from ground,  
Nest C. two Eggs in fir tree 3 ft from ground,

June 24  
96  
656  
220  
589  
126  
656  
158  
533

took nest B, 4 Eggs slightly incubated one slightly damaged, by bird's Claw, there was  
no Egg laid up to 18<sup>th</sup> inst. nest complete several days since, so shy was the bird in  
her operations that altho constantly about having an Egg & this nest site  
I saw the bird but once in the nest connection the ♂ slipped on in the evening  
and I quick caught sight of her, the first indication I had that the nest  
had not been deserted. Site near the top of Spruce tree 27 ft from ground,  
Nest B. 4 Eggs fresh, saw bird pitch of small tree on white ground, nest site,  
Nest C & D 4 Eggs each fresh. S. second laying of nest A. in. 18<sup>th</sup> inst.,  
Several of this species picking seeds on snow banks, - one pair observed near building  
very high up in Spruce tree, topmost branch probably 60 ft from ground.

June 27  
361 1/2  
394 1/2  
323  
464

Nest of this species in half decayed aspen 16 ft from the ground, at least, saw only the ♂  
who seemed to be covering the Egg, readily made his exit from burrow upon tapping the tree on  
July 3<sup>rd</sup> upon my return it was the same thing, in my opinion still covering the Egg,  
leaving the Egg too far incubated upon first discovery I did not examine into  
matter for I did not like to take the chances for next season.

June 28  
261  
557  
206  
557  
96  
656

took nest A. 4 Eggs one damaged, at bird's nose, badly incubated  
took nest C. of 23<sup>rd</sup> Inst. 4 Eggs slightly incubated at lowest meadow,  
took nest B. captured this day 3 Eggs only slightly incubated, left hand stream,  
nest B. with two Eggs on the 28<sup>th</sup> Inst. hatched out by appearance of young, 2 days old  
was greatly surprised was much as upon examination of one of the Eggs, I did not  
perceive how advanced it was in incubation, the manner of the bird however in-  
dicated the correct state of things by tumbling about with a view of drawing  
off attention to nest, third incubation covers 8 days, only,

## Notes on Birds and bird nests June, 1892.

- June 28  $\frac{96}{656}$  took nest D. 5 Eggs in low fir tree  $2\frac{1}{2}$  feet from the ground, near Winock Mine bird did not flush until I was about to put my hand on the nest which I thought was an old Chipping's nest, Eggs incubated  $2\frac{1}{2}$ . this was the second nest found in small low trees of this year, I found also 4 old nests, similarly placed, hence a fair percentage so located may be depended upon,
- 29  $\frac{52}{579}$  2<sup>nd</sup> laying of parents to nest A. 4 Eggs taken on 19 Inst. these Eggs in different stages of incubation from fresh to 2 or 3 days incubation, indicating the Eggs being covered from the first laying, thus it would seem, that this 2<sup>nd</sup> nest was built and four Eggs laid in 8 days, this period covers the whole matter,
- $\frac{318}{459}$  Located C's nest site, on topmost bough of very tall spruce tree at Duck Lake,
- $\frac{185}{583}$  Located nest site A. of this species in top of tallest tree at Duck Lake, am of opinion that other pairs are breeding in this locality but so far cannot locate them the birds are such fly abouts
- $\frac{125}{688}$  Nest H. 4 Eggs fresh Egg and 3 Eggs incubated, the most advanced probably covered  $2\frac{1}{2}$  days, this was a second laying of nest B. taken on the 17<sup>th</sup> Inst.; about 10 days,
- $\frac{125}{688}$  Nest O. 4 Eggs all fresh, being 2<sup>nd</sup> laying of parents to nest J. taken on 20<sup>th</sup> Inst. 8 days.
- 30  $\frac{318}{459}$  took nest Q. up left hand creek among only 2 Eggs, <sup>in tree 20 ft from ground,</sup> one Egg was damaged by the birds themselves this was the parents of the incomplete nest in tall slender tree cut down on 14<sup>th</sup> Inst. Eggs incubated 2 or 3 days; thus it would seem 2 weeks to build and lay the full complement of Eggs is necessary. The site of C. nest I believe to be those from whom Duck B. belonged taken on the 22<sup>nd</sup> Inst, this nest I do not think yet covered - I tried at Duck Lake to where they lately came,
- $\frac{169}{576}$  Nest B. in spruce tree near top 40 feet from ground 5 Eggs badly incubated one lost in descent from tree, up left hand creek, near of Winock Mine,
- $\frac{30}{749}$  Nest F in same locality in small spruce tree, fresh from ground, nest within 4 days of completion. discovered by birds building it,
- $\frac{328}{469}$  took nest G. 4 Eggs fresh Egg laid consecutively, bird difficult to flush from nest, in small fir tree 27 inches from the ground,
- July 2  $\frac{32}{749}$  Nest E. 2<sup>nd</sup> laying of parents to nest D. taken on 19 Inst, containing 7 Eggs (fresh no doubt the full complement of 8 Eggs would have been laid, then in 12 day nest built and 8 Eggs laid. nest as before 9 feet from ground in spruce tree,

## Notes of Birds, and Bird nests July, 1892.

July 11  $\frac{30}{749}$  Nest F discovered on 30 June the birds being actively employed at the time completing it and required being only as near as I could judge wanting about 2 days to perfect completion. I found them touched and altho the birds were about, chasing about as is their habit while laying I could not discover the new nest which they had time to construct, at this stage of proceeding the actions of the birds are most bewildering affording no clue to the nest site. I am strongly of opinion that the parent of Nest F. was the parent of Nest D. altho the sites were a mile apart.

$\frac{169}{578}$  Nest B. was building a new nest a little over 200 yards from former site, and seemed to require a good deal of urging by the male who took no active part in the nest building but accompanied the ♀ very often to the site with balancing material in her mouth and thus expressed his amorous delight more than once, while under observation, under pressing circumstances and as is generally the case with this Finch, ten days after taking the first nest a second with a full complement of Egg is not at all unusual, in this case I believe this birds second laying, was owing to the Egg of the 1st laying being heavily incubated, the producing organ of the ♀ had no doubt relaxed, and required more time to rebuild the desire again to nest - the desire of the ♂ to perpetuate his species seem to be very strong much more so than with the ♀ whom he chases and drives round until she gets to work upon the nest, its progress in building he watches, fighting off intruders & his neighbors, encourages his mate in her labors by attention & sometimes his song.

$\frac{315}{459}$  Parents of nest 4. 1st nest tree cut down on 14th June, 2nd nest taken 30 June with complement of Egg 3 this stage incubated about, again noted about 200 yards distant and supplied a full set of 3 Eggs fresh this day in Sapin tree 22 feet from the ground, thus selecting site building nest and laying full complement of Egg in 10 days.

$\frac{318}{459}$  Parents of nest B. building a 2nd nest at Sack Lake, either this or there are two pairs at this place, I think it likely that the high position of first site selected with the high wind rolled the Egg out of the shallow nest, or the parents feared this might be the case and made the last selection, Every dispatch was being used in building in part throwing the material from an abandoned, or partly constructed, former nest.

$\frac{26}{656}$  Nest C. 2 Eggs 27<sup>th</sup> June hatched and on the 26<sup>th</sup> June at this date the birds had gutted the nest 2 days previous to date, I should judge from appearances, thus requiring 2 weeks to mature sufficiently to leave the nest, this family as to time was a fair sample of the species about round. For I saw other pairs with young just as far advanced as those referred to.

Notes of Birds & Birds nests July. 11. 1842.

July 11 <sup>26</sup> 656 They were in the trees and able to fly about and hide themselves in the branches, altho they were still being fed by the old birds.

July 20 <sup>96</sup> 656 Saw no birds young or old, presumably they had moved higher up or changed their places, <sup>364</sup> 394 saw the ♂ feeding the young, they were able to take the insects from the old bird, at the entrance of aperture, without the parent bird going into the burrow, if at all, the Eggs could not have been much incubated when first discovered on June 27. This species are late breeder, and hence escaped me heretofore.

<sup>164</sup> 578 took nest with 4 Eggs slightly incubated, 2<sup>nd</sup> laying of nest B. half built on 11 July.

<sup>315</sup> 457 took nest with 3 Eggs fresh, 2<sup>nd</sup> laying of nest B. would like my remembrance with reference to these birds on the 11 July I am sure to be correct, nest sits in large spruce tree 50 feet from the ground near the end of horizontal bough 9 feet from the trunk, having supported the bough with cords I cut it near the main trunk and pulled it in, it was a very difficult operation at the moment of severance the end of the bough dropped slightly and two eggs rolled out of the shallow nest, and were lost, if correct in assigning this nest to Great titler half a mile distant on June 22. nearly a month intervened between whereas with parents of nest A between 1<sup>st</sup> & 2<sup>nd</sup> laying was only 10 days possibly and I am rather inclined to think it was the 2<sup>nd</sup> nest & perhaps the 3<sup>rd</sup> set of eggs for accounts of nest B.

<sup>332</sup> 432 this date, took 6 nests A & B two Eggs each heavily incubated, the behaviour of each of male alone, which led to the discovery of the nests, and is deserving of note, when quite 50 feet distant they left their nests to interview me, moving from one perch to another, acting nervously for a space of 4 to 6 minutes when they returned to the nest and examined the Eggs from which they were with difficulty removed in the case of A. I secured the branch upon which the nest was settled and carried the bird on the nest for several yards away when I lifted the bird off the nest by the mandibles and let her go, but these birds & I have remained on their nests I had never discovered them but immediately I saw them knowing their peculiarities the task was an easy one, that they should be so curious, nervous or suspicious before their nest is discovered, and after discovery they should be so docile or submissive and helpless showing such courage & devotedness at the same time, is very remarkable, while the ♀ is building her nest and until she commences to cover the Eggs the male watches he is on guard nearly and attacks anything



Notes of Birds &amp; Birds nests July 20, 1892.

July 20 <sup>389</sup>/<sub>482</sub>  
 any thing near or beach however large or small with great courage screaming & dashing about with utter fierceness - seemingly a perfect terror to all birds who by accident happen to fly near the guarded point, as I did not see either ♂ or ♀ nests I presume they were away gathering food for their sitting mate to obtain which, no doubt they roam to a great distance which their swift flight renders an easy matter, nests A & B had young birds in each of different ages, in one nest they were no larger than house flies, seemingly just hatched, dark little objects quite motionless, and so small that they appeared lost in the sooty nest & appearance, whereas a 2<sup>nd</sup> nest contained two vigorous young that entirely filled their nest, were partially feathered dark in appearance showing no bright colors, the mandibles of all were quite short, nothing to suggest those of the adult birds I saw nothing of either parents in connection with these four nests the situation of nests A & B gives me the clue, and by following the creek up I discovered a nest even 200 to 250 yards distant, none over 4 feet from the ground and all close to the creek none over 1/2 feet from the water A & B were within a yard of it, the site of nest B. was secured to a small branch on the under side of a old tree lying across the creek, the tree trunk sheltering it from the rain, in all the other sites, the trees were even green upon the lower branches on the East or lee side of the prevailing winds, and sheltered by the upper branches from rain, I had no difficulty in finding the 4 latter nests, in the absence of the old birds (who were doubtless away foraging for their young) for I knew exactly where to look for them, the situation and appearance of the tree sufficed, in a manner speaking I walked right up to them, as with some other species I have discovered their nestings secret, what has bothered me hitherto has been the diverse date of nesting on the Alt. I took a nest in the latter part of May, and from appearances the birds nested early in June this Alt. is 8000 feet, whereas the nests taken today at Mendocino is 10000 feet and I noted in their vicinity some small vestiges of snow still to be seen, it is quite likely they were later this season at Mendocino than usual, this was the case with some other birds, I should think 10 or 12 days covered the difference of the nests referred to - This species here to nest close to running water as the foregoing note, and some other Experience here, the previous Experience has been in some instances widely set aside, but in certainly as a rule prevails now.

## Notes of Birds &amp; Bird Nests March 1893.

- 1893.
- March 14 For several days previous I visited the side hills of Mountain Chief and searched very thoroughly, saw two pairs but could determine nothing of any I came to the conclusion that they had not begun to nest. I only saw one pair to day, the other pair hid, or left the locality. I thought they would nest at
- 284 15 Visited the Buck horn, north East of Old Road and above the new Road a pair was evidently nesting as I perceived one with twig in its mouth, a foundation twig, just beginning to build. I judged the second bird held on to the twig. I went off a distance and watched but they did not show up, went further away and after an hour saw one of the birds on top of dead tree over looking the locality, then I think saw the birds. I was not interfered by the birds, as is usual when retiring or watching.
- 150 16 Saw a flock of Bohemian wax wings about 40. in this locality.
- 284 22 Visited the Buck horn again saw no birds, nothing of this species.
- 284 24 Made Exhaustive search on Mountain Chief. I believe that two pairs are here located, whether nesting or not at this date cannot say.
- 284 27 Climbed Mountain side above Fitz's saw one bird several times could determine nothing by its behaviour.
- 284 28 Again I visited the Buck horn examined the location over a large area without seeing or hearing a bird, this is a decided case of desolation possibly I was too officious upon the first occasion and caused alarm.
- 172 28 In this locality saw Goph. hills & all appearance looking for each site or already having begun to build, but not in earnest as I watched them a long time without results.
- 150 28 The same flock as seen on the 15 Inst. believe they have occupied this location all winter. they were fly catching this morning, being warm in fact the first fine warm day this season. These birds seem to have left En ranch with none to be seen to day, plenty of winter Green berries everywhere, independant of the snow melting in covering them there was through the winter, much uncovered ground, affording large areas of this plant with an unusual supply of berries.

## Notes of Birds &amp; Birds Nests March 1893.

March 1893

172 31

The pair of Cuck-bills noted on the 28<sup>th</sup> Inst. were evidently resting from their labors having completed their nest building, now I came to think of their demeanor said as much, I regret not witnessing the building operation which I believe was wholly undertaken by the ♀. locality a sheltered side hill, E. or S. E. from Mt. on north side of Climb of scattered Coniferous trees in Pine tree about 18 feet from the ground wedged on horizontal branch 5 feet from main stem and 4 feet from end of branch the nest shielded on the weather side by bark of another branch from below, and yet immediately underneath the nest could be easily seen, altho' its site would easily be overlooked, if indeed the site would be examined at all, its being in a general way the least likely tree to be selected for nesting, a number of other more sheltered, and offering better hiding being at hand. upon approaching the bulk of scattered timber I stood several minutes looking to the center or further edge, to see if I could discover the bird carrying building material in which direction I had supposed the nest site selected, from the manner of the birds I had previously watched instead of which I saw within a few feet of the tree the nest was located in. simultaneous with my advancing about 50 yards distant the ♂ suddenly lit upon the top of a tree, at a greater distance off, no doubt he had seen my intrusion, and became alarmed, I saw at once by his anxious manner, that he was to be watched so I stood still keeping him in view, in two minutes he flew a little quavering toward me to another tree top and in less than half a minute flew toward the nest site and when within two feet of it the ♀ joined him and flew off the appearance so to speak of the ♀ led me to examine the location of her nest from the tree, when I plainly saw the nest, intending to watch matters I walked off 20 or 25 yards and sat down upon doing so, I saw the ♂ on a twig close to the nest I did not see the ♀ at all, who he must have conducted back to the nest, his stay there was momentary & only had time as I turned round to get a glimpse of him as he flew away. Still of opinion that they were building or - as it now seemed


## Notes of Birds &amp; Bird Nests March 1893.

March 21 1893

172 31 now seemed they were completing their nest I waited and watched for nearly 2 hours, and went away intending to return. I was absent perhaps 4 hours, upon my return as also before I went away I traced the tree trunk and some of its lower decayed branches but the ♀ did not flush, I climbed the tree and discovered the ♀ sitting close, I reach out and suddenly shoot a spray with two or three pine twigs on it which were immediately over the nest to no purpose she trembled, but would not fly off until I pecked her with my finger, she was covering two eggs. After leaving the nest I watched, it was fully 10 minutes from one tree top before she dropped the site to another tree and after 2 minutes more she again settled upon the nest I did not see the ♂ anywhere about, for a moment only after his unnecessary anxiety, that gave his mate away, while building nest I believe as with some other birds, this species nest can be located, and in no other way unless given away by the ♂. accident brought the ♂ to the nest locality just as I happened to be near the spot, otherwise it was 100 chances to 1. I did not descend it.

April 3 172 ✓ Took nest & 3 Eggs this day, watched and saw the ♂ feeding ♀ at long intervals 1 1/2 to 2 hours he seemed to fly some distance away was not present when the nest & eggs were taken. Eggs were covered from the first laying to prevent their being killed I presume the ♂ seemed very devoted to his mate and likewise the ♀ to her nest & eggs. measurement of nest as follows 5 in. wide 2 1/2 in. deep outside 1 3/4 in. deep 2 7/8 in. wide inside, dimensions taken on the spot, therefore correct. Composition of nest found upon a few tree twigs with stiff strong blank stems some of the latter stayed thru' the body or wall in which is felted a few fine grass stems, with much blank fiber, pieces of old hemp, the same somewhat finer with a few feathers felted in, for inside lining, which felt a little harsh, the structure is light, but well knit together, warm without being very dense, should think it took at the least a week to construct. securely wedged upon rough 1 1/2 in. bark well protected by laterals. Eggs slightly incubated no additional egg intended. measurement of eggs 69 x 44. 70 x 44. & 72 x 45. tint of ground light bluish green, under markings dusky lavender very minute, to broader intense or darker, characters

## Notes of Birds &amp; Bird nests, April 1893.

- April 3 Characteristic the latter prevailing on one Egg, the former on the other two, which have to  
 172 almost exclusive on the one Egg. Dark markings sparsely distributed over  
 both surfaces from 1-100<sup>ths</sup> to 8-100<sup>ths</sup> of an inch, dark sepia or warm black, tho' set  
 in general appearance, but little below the average of Eggs of Cooper sparrow the  
 birds in the markings light & heavy being some what similar but much altered  
 seemingly by the ground color of shell. shell a long oval pointed. 
- 150 8 Lack of the nose wing seen to day, going north.
- 254 19 hunted for the nests of this species when ever opportunity offered with no satisfactory  
 at fault continually, whether having nests or not to date since so far, season very  
 backward. some pairs acted differently to former experiences.
- 297<sup>a</sup> 19 Returned from St. James this day. searched for R. M. Canada Junco's nest. Each of  
 Beaver Park, saw none, rather surprised to Early nesting from Engineer do not  
 believe in that locality, that nesting has not yet begun.
- 172 19 On hill side above Jags saw a pair of this species searching the pine cones for  
 seeds seemed not get to home thru nests, otherwise at this date they should be  
 in cone as yet, will investigate further, rather too cold and windy to day.
- 172 21 visited some locality without seeing my birds, am pretty certain the Pair Locom  
 had their young at least 7 days old, or they would not be left alone in this  
 case they must have had Eggs in good shape by end of March, com. building 20th.
- 290<sup>c</sup> 22 discovered nest of this Jay about three parts built in Oak scrub pine 5 feet from  
 ground near Hartley's nest A. saw birds near the tree, while distant 400 yards by  
 their behavior I judged they were building, hid and waited, and watched  
 at intervals of 10 to 15 minutes one, and quite often both birds returned  
 to the tree after being quite certain I stalked over to the tree I found the nest.
- 290<sup>c</sup> ✓ Another kind was building, for one of the birds had a twig in her bill, this was  
 one of several pairs nesting in Freemans gulch, I was discovered and watched  
 by the birds who were suspicious and could not work, the best way is  
 to pass on to appearances seeming uninterested, and when some distance  
 cautiously return, and well concealed at the greatest distance, <sup>sup.</sup> possible  
 with field glass locate their nest site do not meddle with the nest while  
 in course of construction. the birds are very cunning & are far sighted.

## Notes of Birds and bird nests. April 1893

April 22

284 Visited Jeffermans Gulch saw no birds of this species think I heard one, good locality for them but too extensive an area, difficult to work,

30<sup>th</sup> 24

Nebraska Excavating nearly finished, at Red Elms East. 9th high lake before

May 2

visited side hill above Stacey's also side hill above ridge at the first point discovered a nest, from which the young had left perhaps 4 days previous

284

Saw them three in number they were able to fly short distances very well, the old birds were quite demonstrative in their vicinity at both points on side hills at ridge the young were equally well able to fly and take care of themselves in each case they seemed to be a month old and therefore had nests & eggs by 15 or 20 of March, which accounts for their strange behaviour which I could not understand in the early part of April, and later in the month at seeing both old birds feeding on ground and flying round together their young being old enough to be left alone, while I supposed from the very windy weather so long prevailing they had not yet nested, this was a mistake the weather altho' windy had not been cold and the birds at 9,000ft nested fully as early, if not earlier than on previous seasons, near B. Spring Gulch opposite Stacey's lower field in lower limb of pine tree 20 ft from the ground, from beneath the tree plainly seen saddled on branch 1 1/2 inch diameter, I did not climb to it, if it contained eggs at all, the clutch was not in full, as I saw both birds flying about the locality from a distance.

290<sup>c</sup>

54 A pair of these birds were busy cleaning out a mouse nest in a woodpecker burrow the lighter portions were dropped at the aperture but the larger small twigs & such like were carried away quite a 100 feet before dropped & of course at worst the latter however appeared the most industrious locality entrance S-S. hatch, his other pair I observed excavating on hill sides one at Stacey's (above Ranch) and the other at ridge.

447

4

Started to check Bartlett nest from him a pair of Eagle Eggs taken on 25 March, 2 weeks incubated, nest site in rock ledge about half 20 feet from the top 45 ft from ground

413

Endeavored to secure a nest of this species in rocky ledge on the St. Vrain before from the ground and about 15 feet from top of ledge in a deep fissure. I did not leave the

nest until a

## Notes of Birds &amp; Birds Nests. May. 1893.

May 4

413

nest until a large stone was hurled down the rock face when she flew off and her mate tho' joining her he must have been close by in the rock crevices they were not nearly so noisy or aggressive as the Duke Falcon they gave out some cry but I could not correctly hear them as the wind was blowing a hurricane, somewhat so that we had to hold on to the rocks for security altho' provided with ample rope and an expert climber, I would not allow him to take the risk.

19 4

On the St. Vrain near the above point secured a set of the White Doves, 5 Eggs. one fresh or sterile, with 4 others body incubated. Fresh.

19 3

Nests on Jim Creek below Jim town nest complete without Egg. 5<sup>th</sup> one Egg. May 21 hatched.

249

Saw several White Throated Swifts in the usual rock ledges had arrived some days previous.

Snow fall & bad weather from 5<sup>th</sup> to 7<sup>th</sup> both inclusive, birds quiet

360° 8

Nest B Excavating old open off high Chimney, no nest

360°

Nest C do Linn Aspen 14 ft. 2. Junco, taken 4 Eggs nest June 3 93

360°

Nest A nest still unfinished off high 7 Elms, May 29. 4 Eggs incubated not taken

172

at Fred Elms and on Hill side. Junco's quite saw young & old birds together feeding on Pine buds the old birds searching the Pine cones, they would seem pretty uniform as to nesting date 15<sup>th</sup> March on Lenny Hill sided in Pine trees presumably.

290°


Secured nest 2. 4 Eggs. quite fresh & flew off when I touched the branch with my stick as she sat on the nest and slightly trembled when she saw she was discovered off a little distance I heard her give the alarm but I saw nothing of either her or her mate while crawling up the branch to secure the nest on view, like Duke crew the ♀ while incubating is left quietly alone by the ♂ who not to betray her whereabouts slips at a distance, this is therefore extremely difficult to find this nest when everything near it is so quiet, they must be watched while building when they are both active, and noisy if approached their actions are very misleading, and they are Experts in disguise.

240°

Nest 22. discovered May 2. found upon close Examination to be an old nest in good preservation, look season's the birds fooled me badly in this respect

Notes of Birds & Bird nests - May 1893

May 9	360° 2	Nest A Excavating Montis Gulch	June 8.	Young.
	360°	" E do Road to Beaver Park	.	do
	360°	" J do do	.	do
	360° 10	" G do Montis Gulch	.	do
	360° 11	Nest A Old Excavation Montis Gulch	12	mistaken in nest

19 Nest C building on old site 55 ft. from Montis both birds at work on it probably 5 days work in shape thus  three shoe back by upright web ledge, material gathered from the water in a net state the bird pushes & works this varied material on the inside as it were interlacing the straps & fibers which on the outside is allowed to lay loose flush like to lead off the water, with a key web from its dome roof, the outside form is oven shaped unless made to suit the shape of the site, afforded by the rock ledge when sides, back, or top, may interfere with the shape the bank is always over pointed, the nest proper is cup shaped *inches and* in shape perfectly circular of birch bark grass stems fitted with net, the finished lining is of some half dozen Willow leaves at bottom of nest, all material being used net, after they are worked in position and moulded in shape by the birds body being twirled round the nest paper remains a footing with the outside covering the whole is very compact and strong, so little damaged as a rule in a seasons occupation and wear and tear of the winter storms that very little repair is needed for a second years occupancy decay of the material after a time causes the dome to sink down thereby rendering it inconvenient if not entirely useless, then it is pulled down and a new one built on the same site, I have known of a pair of birds (no doubt the same pair) build in a period of 8 years several nests as occasion required in the same niche,

41<sup>st</sup> 12 Walked to Allen's Park, Nest A in Old Aspen Stalk 2 feet from the ground no eggs yet did not open the burrow evidently made by the bird itself *June 10 Examined burrow in nest & birds the seen near it, saw 3 pairs but could not locate nests, only a little later than the*

40 13 Nest A in Old wood peckers burrow 10 feet from ground Montis Gulch, taken June 2 fresh 8 Eggs.

297<sup>th</sup> 10 Sought the Canada Jay at Beaver Park saw a few birds Chas F. Dyer told me they had decreased in number about his Cabin door very remarkably in the last 15 or 18 days & searched from nests without success, know the soft I should probably up 10,500 nests with Egg in shape many



## Notes of Birds &amp; Birds Nests, May 1893.

- Egg in shape may be taken as late as 15 May. at 10000ft probably 10 days earlier.
- May 15 Nest a. on side of Road, on hill side, above Prussian Mine nest complete  
25 all but the lining, taken May 31. 4 Egg incubated 3 or 4 days.
- 370 16 Nest H. Huges 24 Old Aspen, old burrow <sup>not</sup> excavating taken *incubated badly*. June 12 93
- 370 " B Swallow 13. Old Aspen " " " 4 Egg fresh, taken May 31. 93
- 370 " C Kingbird 9. Old Pine stub " " " 6 " fresh taken June 1. 93
- 574 " 4 Chick 14. Old Pine stub " " " 7. fresh taken June 2. 93
- 574 " B Fly 9. Old Spruce stub " " " 8 " inch 1 day taken June 6. 93
- 574 " C Celestial 20. Old Pine tree " " " 6 " fresh taken June 6. 93
- 574 17 " 2 " 12 Old Aspen stub " " " 7. inch taken June 6. 93
- 574 " G Allens Par 14 Old Spruce stub " " " 6. fresh taken June 10. 93
- 574 " F Song Crow 20 Old Pine tree " " " 7. fresh taken June 12. 93
- 471 Flushed a dusky grouse and within 100 yards heard another flush at high peak point above Mountain Creek bridge no doubt they intend nesting at this point if not already commenced.
- ✓ 30 18 at Zeemanns about to nest diving round in the most lucky manner, possibly two pairs, no indication of nesting either at Zeemanns or at Celestial Gulch on June 8<sup>th</sup>
- 40 24 Nest B Song Gulch Old Aspen stub Old Burrow nesting taken <sup>4 1/2</sup> inch 2 June 3. 93
- 40 " C " near Pecks old Aspen stump old site repaired taken 7 Egg fresh " 6. 93
- 40 " D Allens Par old Aspen tree 12 feet from ground taken 6 " " " 29. 93
- 40 " E " " " 5 " " taken 9 " " " 9. 93
- 40 " F Sparrow near beam " 10 " " taken 6 " " " 10. 93
- 40 " G Montanus Song Gulch " 5 " " taken 8 " " " 10. 93
- 40 " H Celestial " 15. " " taken 7 " " " 13. 93
- 40 " I Pecks " " 5. " <sup>on 22 June</sup> 6 Egg 1 1/2 " " 8 " 15. 93
- 57<sup>a</sup> 27 I saw a pair flying about seemingly hunting for food without any nest, irregularly scarce when they should be nesting, ahead season for the species.
- 57<sup>a</sup> I imagine. On the 1<sup>st</sup> June tested an old nest site at Pecks & my entrance found the ♀ covering a set of 7 Egg no more than a day or two of being hatched.
- 57<sup>a</sup> Saw a pair flying about seemingly without nest, at Brand's & Gal's. South side

Notes of Birds, &amp; Bird Nests, May 1893.

May 27 Hunted rained, as far as Allen's Park, without any satisfaction all the species being very late in nesting some not yet begun at 8 o'clock windy, cold, snow, rain, and foggy weather, all the past week, even with such species have begun their nesting labors, have suspended operations for warmer weather.

7 19 Red C. noted on the 11<sup>th</sup> Inst in a period of two weeks very little work done on it, not more than two fair days work as I saw the ♀ working this morning for an hour while the sun was bright and warm, in every minute or two, she brought material and incorporated it with the walls of the nest done in the most ingenious manner, by forcing with much exertion with her bill, the fresh nest material, into the interstices ~~of~~ the already constructed, and partially dry wall from the inside as a chaemulker uses his awl picking up any small portions from the bare stone floor that may have been broken or detached and in the manner as described culling in into any little space offering working from the bottom up always below the top rim upon which nothing is laid after the walls are raised upon a level of where the nest proper is to occupy, also on a level with the threshold of opening, the walls are then raised on all sides of this opening by forcing the building material in a way acting like a wedge raising the upper rim or edge by working in its walls from below (work on top of it), the mouth full of material is pushed awl like into the wall (raising its upper edge) until its proper place is attained and released from the mandibles, then the ends and loose parts are tucked in, in like manner not as a pellet, but rather suggesting a plug resembling a spider, as the work on the walls dry the mandibles of other plugs as to speak with its underlapping with the whole decayed, these mandibles necessarily act forcibly on all sides, the limit of the little walls strength (fully sufficient for the work or hand in mudding the walls of this dove coming for its nest), seemed to be, I noticed that the part of the wall she was working upon was about 3 in high and while she was working in the material, it was about 1 1/2 or 2 inches from the floor which was on an incline of 1/2 in in 3 in the back peak being in bank and to one side upon which side she was working after having delivered some few quots of material she would take a turn at working in the bottom culling in the bottom same when the material rested upon the

## Notes of Birds &amp; Birds nests May 1893.

May 27

took flight her object I understood to be twofold to fasten the foundation  
 well to the rock, and at the same time render that part below her incursions  
 as compact and dense as possible, in order that its weight should press  
 the upper part which from its less density was more easily displaced or  
 sensible to the wedge the top edge showed the slightest inclination to arch  
 which form is attained by the deft manipulation of the builder, thus  
 by working from below the lips or edges of the walls from all sides  
 they closed up and the clay wedges put in at the least complete the outside  
 covering, I noticed when hauling the mud to the rock or to open shell  
 working on the lower side the bird laid flat on the floor spread her wings  
 for a perch and seemed to push with all her strength to overcome a well  
 caulked seam, about the same period of time taken to gather the material,  
 was taken in its adjustment, and the odd peevish heavy work at the bottom  
 seam caulking, and a little period for a rest, about every third journey she  
 scratched her cheek or her crown with her foot sometimes on one side and  
 then on the other and as often ruffled her feathers looked somewhat glum  
 possibly well fatigued and yet still appearing thus the constant exertion  
 was depicted, as often as not, while resting upon the rock side, and just before  
 the journey for fresh material she would raise her wings probably to feel if they  
 were clear of the material composing the upper part of the structure which  
 might be easily disarranged. While observing her, once only did her mate  
 put in an appearance took a position close to the nest gave two or three  
 chirps and then a thrill, like an English Black Bird a very agreeable  
 musical performance which his mate scarcely seemed to appreciate being  
 occupied with her plan of construction, she craned an advance he was  
 about to offer her and took a position near the nest on the rock ledge while  
 he faced round the nest seemed to do a little caulking and then flew away  
 it was evident to me he was not wanted. It also occurred to me that this  
 species is not the exception that when she <sup>is</sup> take upon herself the whole  
 labor of construction she prefers doing so that her plans may not be interfered with.

Notes of Birds, Bird Nests - June 1893

June 25	♂	Nest B. on Road on Side Hill opposite Brimmond	3 Egg fresh taken	June 6. 93		
25		" C	do	do		
370	♂	Nest D. in Old Pine Stalk 5 feet from ground	4 Egg took 2 Egg, 1st fresh, one more laid	(June 22 hatched)		
		sub about 5 days	July 8 7/8 full fledged still in nest, sexes distinctly feathered darker to each.			
370		Nest E in live aspen tree South of Main 2 feet from ground	taken June 8	5 Eggs;		
371		" F in Old aspen Oakcutts Gulch 12 feet from ground	taken "	12 5.		
372		Nest G in aspen tree 5 feet from ground	3 Egg took from chestnut gulch	" 13 3 more laid all		
372	8	" B "	7 " "	6 " "	Willow's Gulch	
372	9	" C "	3 " "	4 " "	Willow's Park	
372		" D "	4 " "	6 " "	do	
372		" E "	8 " "	5 " "	do	
372		" F "	12 " "	6 " "	do	
372		" G "	14 " "	5 " "	do	June 10
372		" H "	7 " "	4 " "	do (nest)	June 10
372		" I "	9 " "	4 " "	celestial	June 13
372		" J "	4 " "	5 " "	do	June 13
372		" K "	3 " "	6 " "	do	
374	9	" A in aspen tree 12 feet from ground	6 Egg fresh taken	Willow's Park		
374		" B "	8 " "	do	Excavating Middle of Main 10 feet 4 Egg taken July 1. 4 Egg. 1st	
374	13	" C "	10 fresh	do	Peaks 5 Egg fresh 2nd day June 27 4 Egg.	
374		" D "	12 "	do	Swallow 4 " " taken June 28	
374	15	5 Egg 2 day incubated	over lake taken	hatched out June 21	Young full fledged July 17.	
374	21	same 2/3 hatched	at Dan Lynch's Ranch	taken	one up it took very dark in color.	
40	15	8 Egg 2 day to hatch	over lake	young large	behung out June 22, July 12 nest empty Egg out 3 or 4 7/8	
40	17	building nest at Beemans				
40						
7 <sup>th</sup> June 16		Egg 3/4 incubated	June 23	1 Egg 2 young	June 27 7/8 full grown Eyes not open yet, nest nearly by run (stayed)	

Notes of Birds and Bird nests.

June	13						
224	18	Nash & Celestial	4 Egg fresh				
"	19	C Montanus	4 " "				
"	20	A & Duke	5 " inch 1/2	B	2 <sup>nd</sup> laying fresh laid	4 Egg	July 3
"	24	S "	4 fresh	H	do	4 "	"
"	"	F "	5 "	J	do	4 "	"
"	July 13	f James Meadows	5 "				
125	July 15	4 & Duke	5 "	H	2 <sup>nd</sup> laying	2 Eggs fresh	1 inch on July 3
"	"	B "	5 "	J	do	4 2 1/2 inch	do "
"	"	C "	5 "	J	do	3 4 inch	July 7
"	16	D "	3 later June 25 1/2 inch	H	do	3 Young 4 day old	on 12 fresh Eggs
"	4	E "	4 "				
"	20	F "	4 inch 1/2				
"	22	G "	4 "				
"	July 4	3 nests in James Meadows all young newly hatched & leave nest					
126	July 16	A Nash small Eugene	10 feet high 3 Eggs taken June 25	5 Eggs	2 <sup>nd</sup> nest completed July 1	fresh	
"	20	B " building	at 10 feet in small Eugene 5 feet from ground	<del>intended to destroy the material of nest carried away, but 26 1 Egg fresh</del>			
"	22	C " building	June 27 3 Eggs	July 29 4 Eggs	July 1 taken	1 inch 1 day	12 feet on horizontal branch
"	23	D " building	on crab 2 <sup>nd</sup> nest up	in fork tree June 24 24 feet high 4 fresh near Saw Mill 24 fresh & material removed			
"	July 3	E <sup>C 2<sup>nd</sup></sup> " not building	July 10 3 Eggs	July 12 taken	1 inch 2 days	in open tree 20 feet from ground.	
"	"	F " Young about to leave nest	4 or 5 day hatched 10 feet from ground horizontal branch of large tree				
"	6	H " Young small laid	30 feet from ground do				
"	6	J " Young James Meadows	Young about to leave nest horizontal branch 4 feet from ground.				
"	7	J " do	do do do				
"	8	K " do	do do do				
220	July 1	A " Montanus	5 Eggs inch 2 Eggs covered only				
220	6	B " Duke	5 " inch 1				
206	July 15	4 "	4 Eggs inch 2 1/2 in the ground				
206	21	B "	4 " fresh 3 feet from ground				
206	29	C "	5 " inch 2 small laid in ground				
206	July 8	D "	4 " inch 4 fresh				
206	14	E "	4 " inch 3				

Notes of Birds & Birds Nests. 1893.

June 17	25	nest D	Opposite Brains	fore castle	
	25	"	"	do	before noted
	25	"	"	near creek opposite	fresh building June 21 5 Eggs taken June 29
June 21	5 <sup>th</sup>	"	"	4 Eggs nich 1 near upper house	4 feet from ground small Esquimaux
June 23	5 <sup>th</sup>	"	"	"	do say hill 8 are in the horizontal branch
July 4	5 <sup>th</sup>	"	"	C 4 fresh do ditch	3 1/2 do small Esquimaux
June 24	318	"	"	building at Water house & near B lake, feeding young July 10. July 21 by flying about	
June 22	318	"	"	B 3 Eggs fresh rocks,	
July 8	318	"	"	C 3 - 1 " 2 inches Lower meadow 2 <sup>nd</sup> laying, July 21. 3 Eggs nich 1.	
July 10	318	"	"	D Slight house gulch young just hatched	
July 12	318	"	"	E Young 4 or 5 days out below one of lake	
July 22	318	"	"	F Young left the nest upon climbing bit near dew drop mine	
July 22	318	"	"	G Young flying about same as Old birds at Dan by nois Ranch	
June 24	323	"	"	4 3 Eggs in 24. 3 Eggs in 27 nich 1.	
June 26	337	"	"	A 2 Eggs fresh above Celestial, near Nelson mine head	
28	30	"	"	A. 6 Eggs nich 1 Upper ground near, discovered by ♂ feeding his mate.	
29	169	"	"	A + B nests with young 4 or 5 days old.	
30	557	"	"	A Beaver Park 4 Eggs nich 3.	
July 5	1084	"	"	A nest 2 Eggs 30 feet high nest & Eggs obtained with great difficulty - too too slender to climb	
14	115	"	"	A nest 3 Eggs fresh, around, only 3 or 4 days to build nest,	

## Notes of Birds &amp; Bird Nests 1894

- Sept 3 Eagles Nest, rock close by lower junction, high over 100 feet and 4 feet  
 449 from bottom ground. Exceedingly difficult to reach. Eggs perfectly fresh  
 one surface white, the other, red and prettily marked with spots.  
 Exceedingly interesting, and differing in each marked feature -
- June 24 Nest of 6 Eggs under a rock which will, nest of few particles of leaves  
 58 and traps Egg quite fresh -

402<sup>c</sup> 32, 5, 11, 32,

395 5, 4, 20, 12, 12, 31, 11

401 2

405<sup>a</sup> 12.

408 4,

420 6, 21, 6

431 4,

432 J.

442  $\frac{4}{12}$

460 17, 4, 14,  $\frac{2}{48}$

487  $\frac{1}{13}$

487 4,

~~576~~

537 17,  $\frac{2}{4}$ ,  $\frac{6}{8}$

565  $\frac{6}{12}$

566 8, 8

574  $\frac{1}{6}$

580 ~~8~~ 39

634 11,

735<sup>a</sup> 20, 36

785 6, 6

unmarked hand 3

578 2

42  $\frac{2}{6}$

52  $\frac{13}{55}$

72 22, 48, 40.

11 9.

12  $\frac{5}{17}$

~~13~~

19  $\frac{2}{6}$

22 4,

23 0,

24 11,  $\frac{20}{120}$ , 4

25  $\frac{5}{26}$

30  $\frac{2}{16}$ , 2,

40 18 sets 142

41<sup>a</sup> 6

57<sup>a</sup>  $\frac{2}{11}$

57 12 sets 107

58 4,

63<sup>a</sup>  $\frac{2}{61}$ ,

~~71~~

93  $\frac{4}{18}$

96 2

121 5

122 1

~~123~~

125  $\frac{6}{36}$ ,  $\frac{6}{30}$ .

~~144~~

141  $\frac{4}{4}$

149<sup>a</sup> 38,  $\frac{5}{22}$

184 4,

186 6, 6

186 2



~~169~~ 5  
 172 3,  
~~184~~  
 185 3  
~~194~~  
 204<sup>2</sup> 3,  
 206  $\frac{6}{20}, \frac{4}{49}, 3,$   
 220 }  $\frac{12}{56}$   
 221 }  
 231<sup>4</sup> 5  
~~232~~  
 + 234 14 sets 80  
 245  $\frac{5}{15}$   
 249 1,  
~~252~~  
 260 35, 174.  
 261 4,  $\frac{12}{52}$   
 288 1, 2, 1,  
 264  $\frac{6}{36}$   
 272 1  
 274 22, 4,  $\frac{6}{30}, \frac{2}{7}$   
 278<sup>6</sup> 1.  
 282 10, 5,  
 284 3,  
 286 10, 12,  
 290<sup>2</sup> 2 sets 8  $\frac{2}{3}$ ,  
 200 3  
 304  $\frac{4}{7}, \frac{3}{8}$   
 206  $\frac{2}{6}$   
~~228~~  $\frac{13}{58}$   
~~249~~ 5

~~315~~  
 316 4, 5  
 318  $\frac{4}{12}, \frac{3}{1}$   
 321 2  
 323  $\frac{5}{28}$   
 325 4,  $\frac{3}{12}$   
~~326~~  
 328  $\frac{3}{12}$   
 335 3  
 337<sup>4</sup>  $\frac{2}{4}$   
 340<sup>2</sup> 14 sets, 64, 8.  
 344<sup>6</sup> 6 sets 28  
 369<sup>2</sup> 64 sets 323  
 370 57 sets 211  
 375 1 set 4  
 378<sup>3</sup> 3 16  
 378<sup>6</sup> 24, 5, 35, 54  
 ✓ x 234  $\frac{2}{14}, \frac{6}{29},$   
 ✓ 289  $\frac{2}{7}, 4,$   
 ✓ 256 3  
 ✓ 237<sup>2</sup> Mt. Olive Spinnaker 1 set 4  
 ✓ 339  $\frac{2}{3},$

