

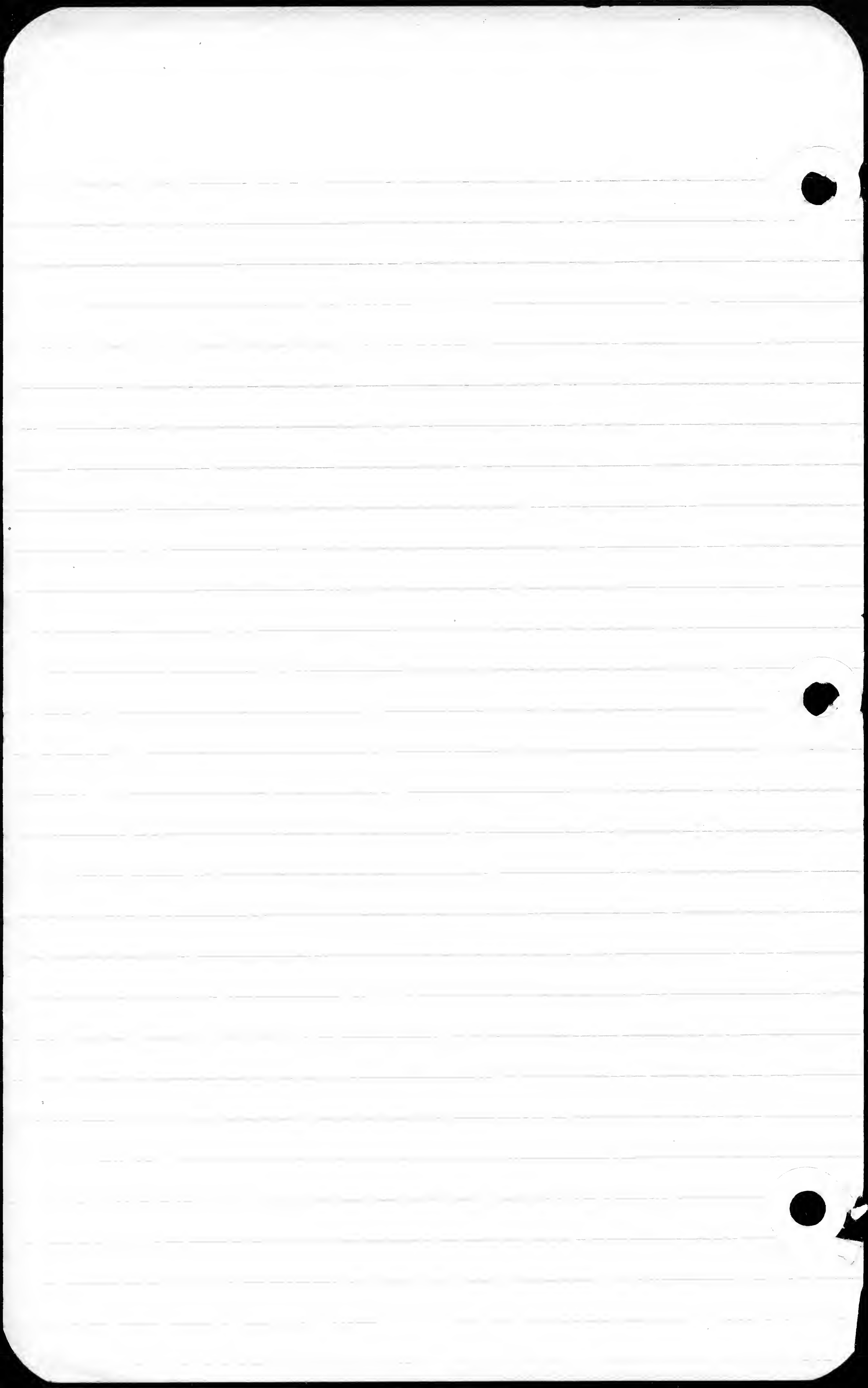
End. Bolivian Exped.

1936

MacArthur Jr.

May 5 to Nov. 26

No. 11270 to 13703



Second Bolivian Expedition, 1936

[2]

12,400 ft.

X

Catavi, Dept. Potosi., May 5, 1936.

On Pampa & valley to south of camp

11270 *Muscisaxicola maculirostris* ♂ 154  
brown \ black, yellow below basally \ black.

✓ 11271 " " " " ♂ 155

✓ 11272 " " " " ♂ 154

✓ 11273 " " " " iii ♂ 156

✓ 11274 " " " " iii ♂ 156  
black \

✓ \*\* 11275 *Muscisaxicola capistrata* ♀ 176  
brown \ black \ black

✓ 11276 " " " " ♂ 182

✓ \*\*\* 11277 *Ammodramus m. montana* ♀ 250  
brown \ black \ black

✓ 11278 " " " " ♂ 257  
black, mostly, feet below \ feet

\* 11279 *Geositta cunicularia titicaca* (M) ♀ 158  
brown \ black, pale under below basally \ black.

✓ 11280 " " " " ♀ 161

✓ 11281 " " " " ♂ 162

✓ 11282 " " " " ♀ 158

- ✓ 11283 *Geositta conicularia titicaca* ♂ 167  
 ✓ 11284 " " " " ♂ 169  
 ✓ 11285 " " " " ♂ 166  
 ✓ 11286 " " " " ♂ 169  
 ✓ 11287 " " " " ♂ 172  
 \* ✓ 11288 *Circulodes fuscus albiventris* ♀ 178  
 brown \ black \ black  
 ✓ 11289 " " " " ♂ 180  
 \* ✓ 11290 *Phrygilus p. plebejus* (Tick) ♀ 140  
 ✓ 11291 " " " " T.S.E. ♂ 132  
 brown \ black, leaden below laterally \ brownish black,  
 ✓ 11292 " " " " ♂ 132  
 ✓ 11293 " " " " ♀ 138  
 \*\* ✓ 11294 *Zonotrichia capensis pulacayensis* ♂ 177  
 hazel \ black, pale horn below laterally \ pale brown  
 \* ✓ 11295 *Sicalis o. olivascens* ♂ 147  
 brown \ blackish, bluish horn below \ dark horn  
 ✓ 11296 " " " " ♂ 145

- 11297<sup>✓</sup> *Sicalis o. olivascens* ♀ 152  
(see also 11295)
- 11298<sup>✓</sup> " " " " imm ♀ 152  
brown \ with black, yellow below \ pale tan
- 11299<sup>✓</sup> " " " " imm ♂ 147
- \* 11300<sup>✓</sup> *Thimocerus orbignyianus ingae* (P) imm ♂ 186  
brown \ black, sides brown, leaden blue below basally (yellow)
- \*\* 11301<sup>✓</sup> *Spotyto conicularia* \_\_\_\_\_ (?) ♀ 270  
yellow \ pale tan, sides: max. black \ leaden

Catavi, May 6

On pampa + valley to South east.

- ✓ 11302<sup>✓</sup> *Muscisaxicola maculirostris* ♀ 158  
brown \ black, yellow at base below \ black.
- ✓ 11303<sup>✓</sup> " " *capistrata* ♂ 188  
brown \ black \ black.
- 11304<sup>✓</sup> *Phrygilus p. plebejus* imm. ♀ 130  
brown \ black, leaden below \ leaden black
- \* 11305<sup>✓</sup> *Sicalis <sup>o.</sup>uropygialis* ♂ 137  
brown \ black, tan blue below \ brown tan.
- 11306<sup>✓</sup> " " " " imm ♂ 133  
dark tan.
- 11307<sup>✓</sup> " " " " imm ♀ 136
- 11308<sup>✓</sup> " " " " imm ♂ 137

11-5

X

11309<sup>✓</sup> *Sicalis o. olivascens* ♀ 149  
brown | black, leaden blue below | pale brown horn

11310<sup>✓</sup> *Cositta cucularia titicacae* ♀ 165  
brown | black, pale bluish below basally | black

11311<sup>✓</sup> " " " ♂ 173

\*\* 11312<sup>✓</sup> *Motriopelia ayмара* ♂ 192  
blue | black | pink

11313<sup>✓</sup> " " " ♀ 183

11314<sup>✓</sup> " " " ♂ 190

Hallagua, May 7, (13,500 to 14,500 ft)

We went up to R.R. Station in auto & hunted over mountain above R.R. Very rough & broken, steep rock stream slopes as a rule. Birds not rare, but very shy & hard to approach within range. Several were used & lost.

\* 11315<sup>✓</sup> *Orzotrochilus e. estellae* ♀ 129  
black | black.

\* 11316<sup>✓</sup> *Haplochelidon a. andecola* ♂ 137  
brown | black | black.

11317<sup>✓</sup> " " " ♂ 139

\* 11318<sup>✓</sup> *Ochthoeca o. oenanthoides* ♂ 161  
brown | black | black

15-6

- ✓  
11319 *Muscisaxicola maculirostris* ♂ 160  
brown \ black, yellow at base below \ black
- ✓  
11320 " " ♀ 150
- \* ✓  
11321 *Muscisaxicola rufivertex occipitalis* ♀(?) 186  
brown \ black \ black
- \*\* ✓  
11322 *Muscisaxicola pallidiceps* ♀ 176  
brown \ black \ black
- \* \* \* ✓  
11323 *Asthenes m. modesta* (?) ♀ 168  
brown \ black, pale base below \ black.
- ✓  
11324 " " ♂ 170
- ✓  
11325 " " ♀ 167
- ✓  
11326 " " ♂ 161
- \* \* \* ✓  
11327 *Upucerthia ruficauda* ♀ 181  
brown \ black, paler below medially \ black.
- \* \* \* ✓  
11328 *Peospiza torquata* (?) juv ♀ 171  
brown \ black, leaden base below \ pale brown base
- 11329 ✓ *Sicalis v. utopygialis* ♂ 140  
brown \ black, base blue below \ pal. brown, feet black.
- ✓  
11330 *Agelaius m. montana* ♂ 253  
hazel \ black \ black
- ✓  
11331 " " ♀ 251

20-10

X

\* 11332 ✓ *Gymnopsia ceciliae* gymlops ♂ 192  
blue | black | pink | blue | eye-rings orange-red.

\* 11333 ✓ *Falco sparverius cinnamomina* ♂ 283  
brown | olive horn | black | orange

Llallagua, May 8.

Went in auto far up the stream (which flows past the mill), then worked back into hills to the north. Birds not so scarce, although very shy, as usual in the high altitudes. worked up to 13,600 ft.

\* 11334 ✓ *Leptasthenura aegithaloides berlepschi* ♀ 163  
brown | black | black

11335 ✓ " " " ♂ 173

11336 ✓ " " " ♂ 176

\* 11337 ✓ *Phacelodopus s. striaticeps* ♂ 183  
hazel | black, horn blue below | leaden

11338 ✓ " " " ♀ 120

11339 ✓ " " " ♀ 185

11340 ✓ " " " imm ♀ 123  
— \ —, pink below \ — blue

\*\* 11341 ✓ *Asthenes d. d'orbignyi* ♀ 170  
brown | black, horn blue below | leaden horn

25-11



- 11342 ✓ (= No. 11341) ♀ 167
- 11343 ✓ *Asthenes m. modesta* ♂ 173  
hazel | black, horn blue below locally | black.
- \* 11344 ✓ *Geositta rutipennis fasciata* ♀ 177  
brown | black, leaden blue below locally | leaden
- 11345 ✓ " " " " im ♀ 176
- 11346 ✓ " " " " im ♀ 170
- \*\* 11347 ✓ *Upucerthia andaecola* ♀ 212  
brown | black, pale horn below locally | blackish horn.
- 11348 ✓ " *andaecola* " ♀ 208
- 11349 ✓ " " " " ♂ 213
- 11350 ✓ " *andaecola* " ♀ 193
- 11351 ✓ " " " " ♂ 204
- \* 11352 ✓ *Cinclodes a. atacamensis* ♀ 230  
brown | black | black.
- 11353 ✓ *Oreotrochilus e. estellae* ♀ 134  
black | black
- 11354 ✓ " " " " ♀ 136
- 11355 ✓ " " " " im ♀ 134

28-12

X

11356 ✓ *Muscisaxicda maculirostris* ♀ 162  
brown/black, yellow at base below black

\*\* 11357 ✓ *Phrygile alaudinus excelsus* (?) juv ♂ 172  
brown/brownish black, pale brown below/brownish plub.

\*\* 11358 ✓ *Phrygile <sup>gagi</sup> patricaps* ♂ 178  
brown/black, pale brown below dusky brown

11359 ✓ " " " " (tail moult) ♂ 160

11360 ✓ " " " " ♂ 187

11361 ✓ *Zonotrichia capensis pulacayensis* ♀ 163  
brown/blackish, pale below brown horn

11362 ✓ " " " " ♂ 178

11363 ✓ *Agriornis m. montana* ♂ 255  
shawn/black/black

\*\* 11364 ✓ *Psilopsiagon orbigny* ♂ 190  
brown/brownish plub/black

11365 ✓ " " " ♀ 191

11366 ✓ *Amnopselia ceciliae gymnops* ♂ 190  
pale blue/black/pink plub

31-15

Hallogua, May 2.

Had too many birds left from yesterday to go shooting today, so stayed in & cleaned up everything at 3 P.M. at 4:30 went up to visit the Falvoys.

31-15

x

[6]

Lallagua, May 10.

We went in car up the river to upper end of golf course. Then up into hills, I was doing swell, swinging out on a big pampa on top of the range, when at 420 I put my foot in a hole & nearly tore my instep off. Had a tough time getting back down to river, took 1 hour & 45 min, with a descent of about 1000 ft. After a short wait down in valley, a truck picked me up & brought me down to town.

- 11367 ✓ *Ochthoeca oenanthoides* ♀ 159  
brown | black | black.
- 11368 ✓ *Phacelodanus s. striaticeps* ♀ 176  
brown | black, pale below | leaden blue
- 11369 ✓ " " " " ♂ 190
- 11370 ✓ *Asthenes d. d'orbignyi* ♀ 174  
brown | black, pale below | top black | dark leaden
- 11371 ✓ " " " " ♀ 168
- 11372 ✓ *Quisitta rotipennis fasciata* ♀ 181  
brown | black, dusky below | leaden
- \*\* 11373 ✓ *Upucerthia validirostris pallida* ♂ 214  
brown | black, pale at base below | black.  
Plain colored, with long curved bill.
- \*\* 11374 *Spinus magellanicus bolivianus* ♀ 132  
brown | black, brown below | black

33-17

33-17

\*

11375<sup>✓</sup> Phrygilus f. fronticeti      juv ♀ 195  
brown | brown brown | pale brown brown

11376<sup>✓</sup>      "      "      "      juv ♀ 190

\* 11377<sup>✓</sup> Phrygilus unicolor unicolor      ♂ 165  
brown | black, brown brown below | blackish

\* 11378<sup>✓</sup> Turdus f. fusca ♂  
brown | dull salmon red | dull orange

11379<sup>✓</sup> Asthenes m. modesta      ♂ 180  
brown | black, pale below | black.

11380<sup>✓</sup>      "      "      "      ♂ 173

11381<sup>✓</sup>      "      "      "      ♀ 171

11382<sup>✓</sup>      "      "      "      ♀ 171

11383<sup>✓</sup> Phrygilus<sup>u.</sup> unicolor      juv ♂ 161  
brown | black, dusky brown below | blackish brown

Hallaqua, May 11.

I was able to sit up today & keep my foot propped up & help Bertie with the birds from yesterday. Am teaching him to stuff now too.

35-17

Catavi, May 12

Berto went out today, worked over the pampa & hills to the south east, where I saw the curlews last week, but did not see them.

- \* 11384<sup>✓</sup> *Falco fusco-caerulescens*<sup>pichincha</sup> <sup>O.S.E.</sup> (M) ♀ 435  
 hazel \ tip of bill black, base + eye ring olive yellow; cere indian yellow \ feet gamboge.
- 11385<sup>✓</sup> " " " " " ♂ 382
- 11386<sup>✓</sup> *Falco sparverius cinnamomina* ♂ 277  
 brown \ black tip, olive below basally; cere & eye ring gamboge \ feet orange
- 11387<sup>✓</sup> *Muscisaxicola maculirostris* ♂ 158  
 brown \ black, yellow at base below \ black
- 11388<sup>✓</sup> *Aythya m. modesta* ♂ 174  
 brown \ black, brownish below basally \ black.
- 11389<sup>✓</sup> " " " " ♂ 175
- 11390<sup>✓</sup> *Phrygulus alaudinus excelsus* ♂ 174  
 brown \ yellow, ridge black \ brownish yellow
- 11391<sup>✓</sup> " " " " ♂ 173
- 11392<sup>✓</sup> " " " " ♀ 171
- 11393<sup>✓</sup> *Sicalis o. olivascens* ♂ 151  
 brown \ black, pale brown below basally \ blackish
- 11394<sup>✓</sup> " " " " ♂ 151

36-17

+

11395 ✓ *Agriornis m. montana* ♀ 254  
brown | black | black

Catavi, May 13.

Birds went south east over pampa & down in river valley & across into hills. Reports only the common species.

11396 ✓ *Leptasthenura aegithaloides berlepschi* ♂ 168  
brown | black | black

11397 ✓ *Asthenura m. modesta* ♂ 179  
brown | black, pale brown below | black

11398 ✓ " " " ♂ 178

11399 ✓ " " " imm ♀ 162

11400 ✓ *Upucerthia ruficauda* ♀ 182  
brown | black, pale medially, below | black

11401 ✓ " " " imm ♂ 187

\* 11402 ✓ *Geositta tenuirostris* ♀ 197  
brown | black, flesh at base below | black

\*\* 11403 ✓ *Anthus furcatus brevirostris* ♀ 159  
brown | black, flesh below, tip black

11404 ✓ *Sicalis o. olivascens* ♂ 154  
brown | black, dusky brown below | blackish

11405 ✓ " " " ♀ 154

38-18

- 11406<sup>✓</sup> *Sicalis u. uropygialis* imm ♀ 140  
brown | black, pale horn at base below | dark horn
- 11407<sup>✓</sup> *Phrygilus p. plebejus* T.M.E. ♂ 136  
brown | black, pale horn below | variably | black.

Galapagos, May 14

Bento went up valley past golf links & then up into the hills to north, nothing taken below 1260 ft except the *Cinclus*

- 11408<sup>✓</sup> *Creotrochilus s. estellae* ♂ 138  
black | black.
- 11409<sup>✓</sup> " " " " ♀ 135
- \* 11410<sup>✓</sup> *Soroplex r. ruficollis* ♂ 342  
yellow | black | leaden olive
- 11411<sup>✓</sup> " " " " ♀ 342
- 11412<sup>✓</sup> " " " " ♂ 333
- 11413<sup>✓</sup> *Leptasthenura aegithaloides berlepschi* ♂ 173  
brown | black | black.
- 11414<sup>✓</sup> *Ochthoeca oenanthoides* ♂ 166  
brown | black | black.
- 11415<sup>✓</sup> *Muscisaxicola pallidiceps* ♂ 176  
brown | black | black.

11416<sup>✓</sup> *Upucerthia ruficauda* ♂ 189  
brown | black, pale below medially | black

~~11417 *Upucerthia validirostris pallida* ♀ 207  
brown | black, black fleck at base below | black.  
(see no 11449)~~

11417<sup>✓</sup> *Upucerthia validirostris pallida* ♀ 215  
(= No 11373) brown | black | black.

11418<sup>✓</sup> *Geositta rufipennis fasciata* ♂ 182  
brown | black, dusky fleck below, top black | leaden

11419<sup>✓</sup> *Cinclodes a. atacamaensis* ♂ 230  
brown | black | black.

11420<sup>✓</sup> *Asthenes m. modesta* imm. ♂ 164  
brown | black, pale below basally | black

11421<sup>✓</sup> *Agriornis m. montana* imm. ♀ 254  
brown | black, mottled with fleck below | black.

11422<sup>✓</sup> *Phrygilus<sup>gayi</sup> atriceps* ♂ 167  
hazel | black, pale horn blue below, top black | blackish



Hallagua, May 15.

Berto went up in hills across river opposite Golf Course. Reports birds almost non-existent. Covered a lot of ground, getting back at 1 P. M.

11423 ✓ *Oreotrochilus e. estellae* ♀ 133  
black | black.

11424 ✓ *Leptastherura aegithaloides berlepschi* ♀ 165  
brown | black | black.

11425 ✓ *Ochthoeca cenanthoides* ♀ 161  
brown | black | black.

11426 ✓ *Geositta rufipennis fasciata* ♀ 176  
brown | black, pale brown below basally | leaden

11427 ✓ *Phrygilus <sup>gavi</sup> natriceps* ♂ 173  
brown | black, horn blue below | blackish horn

11428 ✓ " " " " ♂ 182

11429 ✓ Wild "Sumo Pig." 190-5-39- ♂

39-18

+

Catavi, May 16.

Berto hunted over all the big pampa to south of camp today. Everything taken at more or less 12500 ft.

11430<sup>✓</sup> *Falco sparverius cinnamomina* O.S.E ♀ 312  
brown | horn blue, tip black | cere gamboge | eyering  
olive yellow | feet Indian yellow

11431<sup>✓</sup> " " " " (imm?) ♀ 288  
— | — | — | feet orange yellow.

11432<sup>✓</sup> *Muscisaxicola rufivertex occipitalis* ♂ 187  
brown | black | black.

11433<sup>✓</sup> " " " " ♂ 188

11434<sup>✓</sup> " " " " ♂ 193

11435<sup>✓</sup> " " " " imm. ♀ 175

11436<sup>✓</sup> *Muscisaxicola capistrata* ♂ 187  
brown | black | black.

11437<sup>✓</sup> " " " " ♂ 180

11438<sup>✓</sup> *Quisitta tenuirostris* ♂ 190  
brown | black, flesh at base below | black.

11439<sup>✓</sup> *Sicalis u. vropygialis* imm ♀ 147  
brown | black, olive horn below | brown horn

39-18

Catavi, May 17

Sunday Today + no shooting. Bertr has been working hard for two weeks without a rest.

Catavi, May 18.

Berto went out over pampas to south + up on hills east of big Pampa. The two Flycatchers shot on pampa, the rest up on the <sup>rocks</sup> hills.

- 11440<sup>✓</sup> *Muscisaxicola capistrata* ♂ 181  
brown | black | black.
- 11441<sup>✓</sup> " " " ♂ 185
- 11442<sup>✓</sup> *Sicalis v. uropygialis* ♂ 142  
brown | blackish, bare blue below | brown below
- 11443<sup>✓</sup> " " " ♂ 142
- 11444<sup>✓</sup> " " " ♂ 140
- 11445<sup>✓</sup> " " " ♀ 138
- 11446<sup>✓</sup> " " " ♀ 144
- 11447<sup>✓</sup> Wild Tanager Pip 215-6-42 ♂
- 11448<sup>✓</sup> " " " 208-6-41 ♀
- 11449<sup>✓</sup> *Upucerthia an dæcola* ♀ 207  
brown | black | bluish flesh at base below | black.

Below Power Plant, May 19.

We went down to reservoir with Mr. Koch, crossed the lake to dam & trails started from foot of dam, down the valley collecting between altitudes more or less 7100 to 12000 ft. He reports terrain extremely difficult, with side walls very precipitous & birds difficult to retrieve. Got several good things. He got back at 6<sup>45</sup> after a tough day.

- \*\*  
 11450<sup>✓</sup> *Spizitornis f. flavirostris* ♂ 125  
 brown | black, basal half below yellow | black
- 11451<sup>✓</sup> *Oreotrochilus z. stellae* ♂ imm 140  
 black | black
- 11452<sup>✓</sup> " " " ♂ imm 142
- 11453<sup>✓</sup> *Ochthoeca oenanthoides* ♀ 160  
 brown | black | black
- 11454<sup>✓</sup> " " " ♀ 158
- \* 11455<sup>✓</sup> *Muscisaxicola alpina grisea* imm ♀ 175  
 brown | black | black
- \* 11456<sup>✓</sup> *Peospiza hypochondriaca* ♀ 168  
 brown | black, pale horn below | black
- 11457<sup>✓</sup> *Asthenes d. d'orbigny* ♂ 160  
 brown | black, pale horn below | leaden

42-19

X

11

- 11458<sup>✓</sup> *Phacellodomus s. striaticeps* ♀ 175  
gray | black, pale bluish brown below | leaden
- 11459<sup>✓</sup> " " " " ♂ 172
- 11460<sup>✓</sup> " " " " ♂ 177
- 11461<sup>✓</sup> *Upucerthia andācola* ♂ 200  
brown | black, flush below locally | dark brown
- \*\*  
11462<sup>✓</sup> *Thraupis b. bonariensis* ♂ 196  
brown | black, dusky flush below | dusky brown
- 11463<sup>✓</sup> " " " " ♀ 195  
brown | black, flush below | brown brown
- 11464<sup>✓</sup> *Phrygilus <sup>gray</sup> atriceps* ♀ 169  
hazel | black, flush below | brown brown
- \*\*  
11465<sup>✓</sup> *Sicalis aureiventris* ♂ 163  
brown | blackish, pale brown below | brownish black
- 11466<sup>✓</sup> " " " " ♀ 157

Catavia, May 20.

Berto went down valley nearly to lake, then up to cliffs & rocks on top of ridge to left. Nothing there. Went on around into other valley. Birds very scarce, & nothing new.

- 11467<sup>✓</sup> *Phacellodomus s. striaticeps* ♂ 175  
44-21 | gray | black, bluish flush below | leaden brown

44-21

X

11468<sup>✓</sup> *Agositta rotipennis fasciata* ♀ 182  
brown | black, horn blue below, <sup>th</sup> black | leaden

11469<sup>✓</sup> *Upucerthia andaecola* ♀ 203  
brown | black, flush at base below | black

11470<sup>✓</sup> " " " " ♀ 203

11471<sup>✓</sup> *Upucerthia validirostris pallida* ♂ 213  
long curved bill (=11373)  
brown | black, paler at base below | black

11472<sup>✓</sup> *Phrygilus*<sup>gag</sup> *atricaps* ♂ 184  
brown | black, horn blue below | brownish black

11473<sup>✓</sup> " " " " ♀ 169

Saltagua, May 21.

Birds went out south over Pampas & around the Saltagua mountain toward the old Patina Ruins. Birds very scarce & extremely wild.

\*\* 11474<sup>✓</sup> *Charadrius alticola* (M) ♂ 187

Dusky above, <sup>front</sup> edges with pale sandy buff. Superciliary stripe <sup>iridescent</sup>, sides of neck & broken band on each side of chest sandy buff; under parts, under wing coverts & under tail coverts white; median pair of rectrices & tips of remainder, black; <sup>2</sup> outer pairs almost entirely white; <sup>1</sup> side of outer primaries white & with a white patch on outer web of median portion of inner primaries.  
brown | black | black.

45-22

45-22

+

[12]

11475 ✓ *Muscisaxicola notivertex occipitalis* ♀ 172  
brown | black | black

11476 ✓ *Muscisaxicola capistrata* ♂ 185  
brown | black | black

11477 ✓ *Phrygilus alaudinus excelsus* ♂ 197  
brown | yellow, ridge - top brown black | yellow

11478 ✓ *Zonotrichia capensis pulacayensis* ♂ 177  
brown | black, horn blue below | brown horn

11479 ✓ *Falco sparverius cinnamomina* <sup>O.S.E.</sup> ♀ 285  
brown | olive tawny, top black | cere garuloge | eye - orange  
line - orange | feet orange yellow

Catavi, May 22

Arrangements had been made for Bert to go down valley below Poena Plant today, but at last minute was not possible. Too late then to go anywhere else a day lost.

Valley Below Poena Plant, May 23.

Bert left at 8 P.M. by car to take & laundry met him there. Got back at 2:30.

11480 ✓ *Spizitornis f. flavirostris* ♂ 122  
brown | black, orange <sup>red</sup> below basally | black

11481 ✓ " " " " ♂ 125

45-22

45-22

X

11482<sup>✓</sup> *Poospiza hypochondriaca* ♀ 163  
brown | black, horn blue below basally | black.

11483<sup>✓</sup> " " ♀ 173

11484<sup>✓</sup> " " ♂ 171

11485<sup>✓</sup> " " ♂ 173

11486<sup>✓</sup> " " juv ♂ 163

11487<sup>✓</sup> *Asthenes d. d'orbignyi* ♀ 172  
brown | black, bluish fluff below | leaden blue.

11488<sup>✓</sup> *Upucerthia andāicola* ♀ 200  
brown | black, fluff below basally | black.

\* 11489<sup>✓</sup> *Mimus dorsalis* ♀ 252  
dusky yellow | black | black.

11490<sup>✓</sup> *Phrygilus f. fronticeti* juv ♂ 189  
brown | blackish brown, pale brown below | brown horn.

11491<sup>✓</sup> " " juv ♂ 188

11492<sup>✓</sup> " " juv ♂ 198  
— | blackish horn | clear brown

11493<sup>✓</sup> *Phrygilus <sup>gayi</sup> atriceps* ♂ 184  
brown | black, horn blue below | blackish

11494<sup>✓</sup> " " juv. ♂ 176  
— | blackish, yellow below | dusky horn

11495<sup>✓</sup> *Turdus f. fuscater* ♂ 287

46-22 | hazel | orange red | yellow



Lagunillas (S. E. <sup>1/2</sup> uncia 10 miles) May 24

Mr. Blevins took us in auto to these two small lakes in a valley about 20 to 25 miles S. E. of Catawi. We left at 6<sup>30</sup> & returned at 11<sup>30</sup>. Lakes in small valley with hills all around about 500 ft high. Thickly settled with Indians & many sheep, llamas, pigs, donkeys, etc. Birds very scarce, except a colony of about 250 Red Legged Coots. They lake have no reeds, but much water plant, on which Coots apparently feed. Saw several carrying water plants to little mounds & were apparently building nests. Also a number of small Grebes, shot 3 but could not get them. I think Indians stole them when we went up to the shore.

Some Swallows about (Same as Catawi bird) also 2 species of Ground Squirrels. A flock of about 12 large Ducks present, could not identify them. Had black heads & rather long tail. Very foot too lame to permit much walking. Birds shot all birds secured.

\*\*

- 11496 ✓ *Lessonia veta oreas* ♂ 142  
brown \ black \ black
- 11497 ✓ " " " ♂ 141
- 11498 ✓ " " " ♂ 143
- 11499 ✓ " " " ♂ 145
- 11500 ✓ *Anthus forficatus brevirostris* (N) ♂ 167  
brown \ black, patch below top back \ brownish patch

47-23

X

11-8

11501 ✓ *Querula tenuirostris* ♂ 198  
brown, black, bluish pink below basally | black

11502 ✓ *Muscisaxicola capistrata* ♂ 167  
brown | black | black

11503 ✓ " " " ♂ 185

11504 ✓ *Charadrius alticola* (M) ♂ 178  
(= No 11474) brown | black | black

11505 ✓ *Thalassidroma orbignyensis ingae* (M) ♀ —  
brown | yellowish drab, ridge & tip below black | pale yellowish drab.

\*\* 11506 ✓ *Anas flavirostris oxyptera* (M) ♀ 395  
brown, | yellow, ridge black | greenish blue

11507 ✓ " " " ♀ 385

\*\* 11508 ✓ *Fulica gigantea* (M) ♂ 566  
brown | dark crimson, ridge & middle of shield  
purplish white, sides of shield yellow | yellowish crimson

Catani, May 25.

No shooting today. Frankly I did not know when to have Bert to go. We skinned the ducks & coat from yesterday & called it a day.

49-25

Hallagua, May. 26. (13 to 14000 ft)

Bente went up on mountain above Hallagua Station. Got back at 1 P.M. Day cloudy & cold & birds very scarce. Can pretty hopeless here now. However we will be leaving for Oruro & take loops on Friday (May 29) as the doctor says my foot will be well enough by then to travel, if I am careful.

- 11509<sup>✓</sup> *Aythya modesta* ♀ 172  
brown \ black, horn blue below locally \ black.
- 11510<sup>✓</sup> " " " ♀ 167
- 11511<sup>✓</sup> *Muscisaxicola capistrata* ♀ 179  
brown \ black \ black.
- 11512<sup>✓</sup> " " " ♂ 186
- 11513<sup>✓</sup> " " " ♀ 173
- 11514<sup>✓</sup> *Quercus tenuirostris* ♀ 196  
brown \ black, dusky plum below locally \ black.
- 11515<sup>✓</sup> *Falco sparverius cinamomina* ♂ 293  
brown \ horn blue, tip black \ cere & feet orange.

49-25

+

Hallagua, May 27

Birds sent up with both opposite Gof course, where I had my post.

11516<sup>✓</sup> *Muscisaxicola maculirostris* ♀ 156  
brown | black, yellow at base below | black

11517<sup>✓</sup> *Phrygilus p. plebejus* ♂ 140  
brown | black, horn blue below | black

11518<sup>✓</sup> *Phacelodermus s. striaticeps* ♂ 174  
brown | black, flesh below | leaden blue

11519<sup>✓</sup> *Upucerthia andaeicola* ♀ 204  
brown | black, pale horn below basally | black

11520<sup>✓</sup> *Phrygilus <sup>gayi</sup> atriceps* ♂ 192  
brown | black, bluish flesh below basally | brown horn

\* 11521<sup>✓</sup> *Phrygilus gayi atriceps* ♀ 175  
brown | black; horn blue below | brown horn

11522<sup>✓</sup> *Phrygilus <sup>u.</sup> unicolor* ♂ 164  
brown | black, pale horn below | brown | black

11523<sup>✓</sup> *Cinclodes a. atacamaensis* ♀ 220  
gray | black, pale at base below | black

11524<sup>✓</sup> "Wild Guinea Pig" 210-6-38-♂

50-25	Not previously taken in Bolivia	25
	Previously " " "	25
	Total skins =	<u>50</u>

On Railway, near Lake Poopo, between Pazña  
and Poopo Stations.

X

12150 ft.

[15]

Callipampa, May 30.

We arrived here in morning at 8:30 from Pazña, &  
Bento went shooting back in hills behind camp.

- \* 11525 ✓ *Spizitornis parulus aequatorialis* ♂ 124  
brown | black | black.
- 11526 ✓ *Spizitornis f. flavirostris* ♂ 123  
brown | black, basally red orange below | black
- 11527 ✓ *Leptasthenura aegithaloides berlepschi* ♂ 177  
brown | black | black.
- 11528 ✓ *Asthenes d. d'orbignyi* ♂ 174  
brown | black, brown blue below | leaden blue.
- \*\* 11529 ✓ *Upucerthia dumetoria hypoleuca* ♂ 234  
brown | black, pale mesially below | blackish brown
- 11530 ✓ *Upucerthia validirostris pallida* (No. 11373) ♂ 220  
brown | black, paler below basally | black.
- 11531 ✓ " " " ♀ 218
- 11532 ✓ *Asthenes d. d'orbignyi* ♂ 172  
brown | black, brown blue below | leaden blue,
- \* 11533 ✓ *Phrygilus alaudinus venturii* ♂ 175  
brown | brownish yellow, ridge dusky | brownish flesh.
- 11534 ✓ " " " ♂ 180
- 11535 ✓ " " " ♀ 168  
brown | black, pale yellowish brown below | —
- 11536 ✓ [2-1] " " ♀ 167

2-1

+

11537 ✓ *Phrygilus gayi atriceps* ♀ 176  
brown | black, bluish plum below | blackish brown

11538 ✓ *Mimus dorsalis* ♂ 258  
dusky yellow | black | black.

11539 ✓ " " ♂ 266

11540 ✓ *Turdus f. fuscater* ♂ 295  
brown | orange | dull yellow

11541 ✓ " " " ♀ 286

Callipampa, May 31.

Berts went shooting back in hills to east.  
I hunted birds all forenoon. Berts back at 1 P.M.

11542 ✓ *Spizitornis parva aequatorialis* <sup>imm</sup> ♀ 112  
brown | black | black.

11543 ✓ " " " " <sup>imm</sup> ♀ (tail missing)

11544 ✓ *Leptasthenura aegithaloides bert.* ♀ 177  
brown | black | black.

11545 ✓ *Asthenes d. d'orbigny* ♂ 168  
brown | black, hair blue below | leaden blue

11546 ✓ " " " ♀ 170

11547 ✓ *Asthenes m. modesta* ♀ 170  
brown | black, pale brown below locally | black.

2-1

Callipampa - 1936

* 3	<i>Nothoprocta ornata</i>	2	
* 2	<i>Nothura maculosa agassizii</i>	1	
*	<i>Metriopelia aymara</i>	1	(several seen)
* 4	" <i>melanoptera</i>	3	numerous
* 3	<i>Rymnypelia cecilia gymnops</i>	1	common
*	<i>Thimocerys orbignyianus ingae</i>	2	seen at high up.
* 1	<i>Charadrius alticola</i>	2	(seen at high up)
—	<i>Gallinago paraguayae andina</i>	1	
* 1	<i>Totanus flavipes</i>	1	
*	<i>Centropelma micropteron</i>	6	(common on river + lake)
* 1	<i>Colymbus chilensis</i>	1	(on lake at mouth of river)
*	<i>Plegadis ridgwayi</i>	1	(common lake)
*	<i>Larus seiranaus</i>	1	(on lake, seen there in 1936)
*	<i>Phoenicopterus chilensis</i>	1	(seen on lake)
*	<i>Anas flavirostris oxyptera</i>	2	(seen on lake + river)
*	" <i>versicolor puna</i>	2	(seen on lake + river)
—	<i>Oxyura ferruginea</i>	2	
*	<i>Falco sparverius cinereiventris</i>	1	(2 seen)
*	<i>Psilopsiagon orbigny</i>	4	(several seen)
* 2	<i>Oreotrochilus s. stellae</i>	1	
*	<i>Scolecophax rupicola</i>	1	(shot - not skinned)
* 1	<i>Aythya d'orbigny arequipoe</i>	7	(common in valley)
* 1	" <i>maucudata</i>	6	several seen in valley
*	<i>Cinclodes fuscus</i>	1	(a few seen)
*	<i>Heptasthenura regithalassides</i>	17	(common)
*	<i>Phacellodomus s. striaticops</i>	2	(numerous in valley)
* 1	<i>Phleocryptes melanops</i>	3	(not so common as previously)
* 1	<i>Upucerthia validirostris pallida</i>	6	
*	" <i>ruficauda</i>	2	(seen up in hills)
—	" <i>dumetoria hypoleuca</i>	1	(not seen)
*	<i>Agriornis micropterus andorra</i>	1	several seen
*	<i>Lessonia rufa oreas</i>	2	(common at lake)

—	<i>Muscisaxicola capistrata</i>	1	
—	" <i>frontalis</i>	1	
*	" <i>pallidiceps</i>	3	
*	<i>Spizitornis f. flavirostris</i>	3	(seen several)
*	" <i>parulus aequat.</i>	5	
* 2	<i>Tachuris rubrigaster grandis</i>	7	
* 6	<i>Petrochelidon a. andecole</i>	1	(seen several)
*	<i>Turdus fuscoater</i>	3	(common)
*	<i>Mimus dorsalis</i>	3	(common)
* 12	<i>Phrygilus alaudinus venturii</i>	6	(not common)
—	" <i>erythronotus</i>	3	
* 3	" <i>f. fruticeti</i>	1	common
*	" <i>gayi atriceps</i>	1	common
*	" <i>v. unicolor</i>	1	seen several
* 5	<i>Sicalis auriventris</i>	1	common
* 4	" <i>o. olivaceus</i>	2	fairly common
—	<i>Spinus magellanicus bolivi-</i>	2	not common
* 1	<i>Spinus atratus</i>	5	
* 4	<i>Zonotrichia capensis pulac.</i>	1	common
*	<i>Agelaius thilius alticola</i>	2	(1 seen at night)

	<i>Cinclodes atacamensis</i>		
* 1	<i>Sicalis v. europaealis</i>		
* 1	<i>Fulica ardesiaca</i>		
*	<i>Melospelia aymana</i>		(not common)
/	<i>Phoenicoparus jamesi</i>		
/	<i>Chondestes Bacher boninensis</i>		
/	<i>Accipiter (?)</i>		



11548 ✓ *Muscisaxicola pallidiceps* ♂ 176  
brown | black | black.

\*\* 11549 ✓ *Gallinago paraguayae andina* (M) ♂ 239  
brown | brown brown basally, black apically | yellow<sup>drab</sup>.

11550 ✓ *Scolecophagus rufipicola* ♀ 337  
greenish yellow | black | dull olive

11551 ✓ *Mimus dorsalis* ♂ 265  
pale hazel | black | black.

11552 ✓ *Turdus f. fuscator* ♀ 278  
brown | brownish yellow | dull yellow

11553 ✓ *Metropelia aymara* ♂ 189  
brown | black | pink flesh.

\*\* 11554 ✓ *Metropelia m. melanoptera* (M) ♂ 225  
blue | black | black | eye-ring salmon & blue.

11555 ✓ " " ♂ 222

11556 ✓ " " ♂ 240

\*\* 11557 ✓ *Nothura maculosa agassizii* (M) ♀ 244  
hazel | brown brown, dusky fluff below | dull yellow

5-4

+

Popo, June 1.

We went in car to Popo & then down to Desaguadero River near entrance into Lake Popo. Worked along edge of shallow marsh, with scattered Totora, then on river in a sort of flat bottomed boat. Did not get back till 4<sup>30</sup> P.M.

\*\*

11558 ✓ *Plagadis ridgwayi* (M) ♀ 517  
red | dark red laterally, black apically | negro

11559 ✓ *Charadrius alticola* T.S.E ♂ 187  
brown | black | black.

11560 ✓ " " ♀ 191

11561 ✓ *Lessonia rufa orcas* ♀ 146  
brown | black | black.

11562 ✓ " " " ♂ 141

11563 ✓ *Muscisaxicola capistrata* (M) ♂ 182  
brown | black | black

11564 ✓ *Agelaius thibialis alticola* (M) ♂ 195  
brown | black | black

11565 ✓ " " " ♂ 201

\*\*

11566 ✓ *Colymbus chilensis* ♀ 285

carmine | black | blackish, mottled with blue  
Black head with white patch on each side  
under parts rusty brown.

7-6

7-6

X

[18]

<sup>S</sup> \*\* [176]

11567 ✓ *Centropelma micropteron*

♂ 415

blue reddish brown, yellow below blackish, some yellow

<sup>S</sup> [177]

11568 ✓

"

"

♀ 425

<sup>S</sup> [178]

11569 ✓

"

"

♂ 416

<sup>S</sup> [179]

11570 ✓

"

"

♀ 400

<sup>S</sup> [180]

11571 ✓

"

"

♀ 400

\* 11572 ✓

*Larus serranus*

♂ 490

brown blackish red blackish red.

Callipampa, June 4

No shooting today, some rain.

Callipampa, June 3.

I went out today for the first time, on foot, working up the valley behind camp for nearly two miles, but the foot was very sore & I had to go slowly & carefully. Walking with a limp did me very much. I got 10 birds. Birds went up toward Poopo, then into hills.

11573 ✓ *Haplochelidon a. andreae*

♀ 139

brown black black

11574 ✓ *Leptasthenura oegithaloidea berlepschi*

♀ 162

brown black black

11575 ✓ *Asthenes d. d'orbigny*

♀ 174

brown black, pal horn below ladder blue

8-7

8-7

+

11576 ✓ *Upucythia validirostris pallida* ♂ 212  
(Plain colored sp. with solid cinnamon brown tail,  
brown/black, pale below mainly at base/blackish brown)

11577 ✓ *Phrygilus f. fruticeti* ♂ 192  
brown/blackish, pale brown below/pale brown brown

11578 ✓ *Zonotrichia capensis palauensis* ♂ 172  
brown/blackish, pale brown below mainly/blackish brown

11579 ✓ *Psilopsiagon orbigny* (M) ♀ 186  
brown/lead blue mainly, olive flesh apically/black

11580 ✓ " " ♀ 184

11581 ✓ " " ♂ 186

11582 ✓ " " ♀ 177

11583 ✓ *Orzotrochilus s. stellae* ♀ 133  
black/black

11584 ✓ *Leptasthenura aegithaloides baird* ♀ 164  
brown/black/black

11585 ✓ " " " ♂ 173

\*\* 11586 ✓ *Asthores m. modesta* ♀ 160  
brown/black/black

11587 ✓ *Phacellodanus s. striaticeps* ♂ 183  
gray/black, bluish flesh below/lead blue

11588 ✓ *Upucythia ruficauda* ♂ 192  
white streak below/brown/black/black

9-8

x

[19]

11589 ✓ *Upucerthia validirostris* <sup>pallida</sup> (=No. 11576) ♂ 216  
brown \ black, paler below locally \ black.

11590 ✓ *Phrygilus alaudinus venturii* ♂ 181  
brown \ yellow, ridge black \ brownish flesh

11591 ✓ *Phrygilus* <sup>v.</sup> *unicolor* ♂ 165  
brown \ black, pale brown below \ black

\*\*  
11592 ✓ *Phrygilus erythronotus* [= *Diveca behni*] (M) ♂ 186  
above slate gray, throat white; deck ashy, abd.  
white; crown buffy; remiges & rectrices black with  
edged with ashy.  
hazel \ blackish, pale brown below \ black.

11593 ✓ " " " ♂ 174

11594 ✓ " " " ♀ 175

11595 ✓ *Thinocorys orbignyianus ingae* ♂ 215  
brown \ brownish yellow, ridge & flange black \ yellow

11596 ✓ " " " " ♂ 235

11597 ✓ " Wild Guinea Pig. 180-5-38-♂

11598 ✓ " " " 190-6-39-♂

11599 ✓ " *Viscacha* (M) 472-205-80-♂  
ear = 63

10-9

10-9

X

Callipampa, June 4.

I stayed in to finish up yesterday's material & give the feet a rest after yesterday's tramp.

Berts went straight down to Lake, but could do nothing alone from shore. Hundreds of Flamingos out in lake behind big hill, in shallow water. He waded around in water till just near frozen.

\*\*

11600 ✓ *Tachuris rubrigastra grandis* (M) ♂ 120  
brown | black | black.

11601 ✓ " " " " ♂ 124

11602 ✓ " " " " ♀ 121

11603 ✓ *Leptasthenura degithaloides berl* ♀ 148  
brown | black | black

11604 ✓ *Asthenes<sup>m</sup> modesta* ♀ 162  
brown | black, pale brown below | blackish leaden

\*\*

11605 ✓ *Totanus flavipes* ♀ 258

Bill slender, straight, 32 mm; upper parts grayish olive, mottled with black & white; tail barred blackish & white above; upper tail coverts white; under parts white, chest streaked with black. Legs long, tibiae half naked. Primary black brown | black | dusky yellow

11606 ✓ *Sicalis o. olivaceus* ♀ 161  
brown | black, bluish fluff below barely | dark brown

12-11

\*

[20]

Callipampa, June 5

I hobbled up into hills to south of cable-way, working up valley + up slopes on south side, then down to valley + out. (8 birds) Bertr went out on take with Indian on Royst.

11607 ✓ *Leptasthenura segethaloides* Berl. imm ♀ 166  
brown | black | black.

11608 ✓ *Asthenes*<sup>m.</sup> *modesta* ♀ 168  
brown | black, pale brown below | black

11609 ✓ " " " ♂ 171

11610 ✓ *Phacellodomus s. striaticeps* ♂ 183  
gray | black, bluish blue below | leaden blue

11611 ✓ *Upucerthia ruficauda* (white streaks below) ♂ 197  
brown | black, pale below versicolor at base | black

\*\* 11612 ✓ *Muscisaxicola frontalis* ♂ 195  
gray, with white lines + black front + median crown stripe  
hazel | black | black

11613 ✓ *Muscisaxicola pallidiceps* ♀ 179  
brown | black | black.

11614 ✓ *Sialia aureiventris* ♂ 151  
brown | blackish, brown below | dull brown  
Bertr —

11615 ✓ *Muscisaxicola pallidiceps* ♂ 181  
brown | black | black

13-12

\*\*

11616<sup>✓</sup> *Nothoprocta ornata* (M) ♂ 350  
brown/black, pink below basally, pale drab

11617<sup>✓</sup> " " " (M) ♂ 350

\*\* <sup>9</sup> [181] 11618<sup>✓</sup> *Phoenicopterus chilensis* (M) ♂ 1093  
pale yellow/pale pink basally, black apically, leaden blue, feet + tibial joint deep rose red.

Callipampa, June 6.

I stayed in to give foot a rest after yesterday's excursion, & skinned the Flamingo + 2 Tinamous. Bertr went to hills between here & Lake Popo.

11619<sup>✓</sup> *Spizitornis flavirostris* ♂ 127  
brown/black, salmon red below, black/black

11620<sup>✓</sup> *Leptasthenura aegithaloides* bertr. ♀ 168  
brown/black/black.

11621<sup>✓</sup> " " " " ♂ 156

11622<sup>✓</sup> *Asthenes d. dorbignyi* (M) ♂ 172  
brown/black, sandy pink below basally, leaden

11623<sup>✓</sup> " " " " ♀ 170

11624<sup>✓</sup> *Cinclodes fuscus* — ♀ 183  
brown/black/black.

11625<sup>✓</sup> *Spinus magellanicus bolivianus* ♀ 130  
brown/black, pale tan below basally, black

11626<sup>✓</sup> " " " " juv ♂ 125



15-14

x

[21]

- \* 11627<sup>✓</sup> *Spinus a. atratus* ♂ 131  
 brown | dark brown, tip black, pale below basally | black
- 11628<sup>✓</sup> " " " ♀ 136
- 11629<sup>✓</sup> " " " ♀ 133
- 11630<sup>✓</sup> " " " ♀ 135
- 11631<sup>✓</sup> *Phrygilus alaudinus venturii* ♂ 172  
 brown | yellow, ridge black | yellow flesh.

Calliparupa, June 7.

We both went in car down to Lake Poopo & around hill to south to Indian's home, & out on eastern in little "lalsa". Thousands of *Flamigerus* but we could not get in range of them. Later in day crossed into "Litoral" at upper end of lake where water is pebbly. Most birds taken up there. Did not get back to Camp till 5:30 PM.

- 11632<sup>✓</sup> *Tachuris rubrigastra grandis* ♂ 125  
 brown | black | black
- 11633<sup>✓</sup> " " " ♂ 129
- 11634<sup>✓</sup> " " " ♂ 125
- 11635<sup>✓</sup> " " " ♂ 130
- \*\* 11636<sup>✓</sup> *Phleocryptes melanops schoenbaenus* (M) ♂ 158  
 brown | black, pale brown below basally | black

17-15

17-15

+

- 11637 ✓ *Phaeocryptas* \_\_\_\_\_ ♂ 160  
(see no 11636)
- 11638 ✓ " " " " ♀ 150
- \*\*<sup>S</sup>[182] ✓ 11639 *Oxyura ferruginea* ♀ 440  
brown | black, pal yellow below laterally | black  
outside, drab inside, with dusky joints
- 11640 ✓ " " " " Club ♀ 193  
brown | black, upp mand. yellow | blackish
- 11641 ✓ *Anas versicolor pona* ♂ 475  
brown | bright leaden blue, ridge black | leaden blue
- 11642 ✓ " " " " ♀ 455
- <sup>S</sup>[183] ✓ 11643 *Centropus micropterus* ♂ 440  
brown | dark crimson, long ridge, black, yellow below  
nucially, | black outside, greenish yellow inside

### Callipampa, June 8

We stayed in today & skinned yesterday's birds. I finished up letters, wrote labels, & at 9 P. M. went to Oruro to look after baggage there & sleep in south.

### Callipampa June 9.

Berto went up in hill east of camp, working up to 14000 ft. He skinned 6 birds & left rest

- 11644 ✓ *Spizitornis parula aquatorialis* ♀ 125  
brown | black | black

- 11645 ✓ " " " " ♀ 118  
18-16

11646<sup>✓</sup> Spizitornis f. flavirostris ♂ 127  
brown \ black, orange below basally \ black.

11647<sup>✓</sup> Leptasthenura aegithaloides berl. ♂ 173  
brown \ black \ black

11648<sup>✓</sup> " " " " ♀ 165

11649<sup>✓</sup> " " " " imm? 173

11650<sup>✓</sup> Upucerithia validirostris pallida ♀ 226  
strong curved bill, plain colored, with cinnamon brown tail  
brown \ black, pale mesially at base \ black

11651<sup>✓</sup> " " " " ♂ 225

11652<sup>✓</sup> Phyrgilus <sup>gayi</sup> atriceps ♀ 194  
brown \ black, horn blue below basally \ dark horn

11653<sup>✓</sup> Sicalis o. olivascens ♀ 146  
brown \ black, horn blue below \ black

11654<sup>✓</sup> Asthenes m. modesta ♀ 194  
brown \ black, pale horn below basally \ black

11655<sup>✓</sup> Gymnoplelia ceciliae gymnops ♀ 193  
pale blue \ black \ pink fluff \ eye-ring orange.

\*\*

11656<sup>✓</sup> Agriornis microptera andseola ♀ 262  
brown \ black, pale horn below \ black

11657<sup>✓</sup> Falco sparverius ♀ 303  
brown \ bluish olive basally, black apically \  
feet orange

19-17

X

Callipampa, June 10

Berta went down to lake today, but could not get bats. Waded out in shallows. Very few flamingo around & nothing in shallows or on shore. Exceedingly cold last night & much ice everywhere this morning. I returned from Oruro at 9:30 & skinned 6 of birds left from yesterday before lunch. Berta back at 2 P.M.

11658<sup>✓</sup> *Heptasternus cephaloides* Berl. ♂ 168  
brown | black | black

11659<sup>✓</sup> " " " ♀ 165

11660<sup>✓</sup> " " " ♂ 170

11661<sup>✓</sup> " " " ♀ 166

11662<sup>✓</sup> " " " ♂ 169

11663<sup>✓</sup> *Spinus atratus* ♂ 139  
brown | blackish, yellow below | black

19-17

	<u>Total Species</u>	<u>near to Bol</u>	<u>Total items</u>
Catani	= 50	25	255
Callipampa	= 19	17	139
	69	42	394

X

Chocaya, Dept. Potosi, June 14. (Prov. Sur Chichas)

We are located up at the mine (Siete Suyos), which is 4 or 5 miles above the Railway station of Aploca (about 11,000 ft.). The shooting was done today above the camp. I worked up behind the camp, climbing up to nearly 14,500 ft., while Berto worked up the valley & around the top of San Animas & down the valley to left of camp. I was knocked out last night & all forenoon by something I ate, vomiting & diarrhea, but managed to hobble out & got 9 birds.

- 11664 ✓ *Leptasthura aegithaloides* ————— ♂ 168  
brown \ black \ black
- 11665 ✓ *Asthores modesta modesta* ♂ 164  
brown \ black, horn blue below basally \ black.
- 11666 ✓ " " " " ♀ 165
- 11667 ✓ " " " " ♂ 174
- 11668 ✓ " " " " ♂ 178
- 11669 ✓ *Upucerthia ruficauda* ♂ 208  
~~(all birds of this name wrongly identified - a different~~  
~~genus, taken at Pampa de Arce, Peru.~~  
brown \ black, horn blue mesially below, basally \ black.
- 11670 ✓ " " " " ♀ 196
- 11671 ✓ *Muscisaxicola frontalis* ♀ 192  
brown \ black \ black
- 11672 ✓ " " " " ♂ 197

X

11673<sup>✓</sup> *Muscisaxicola pallidiceps* ♀ 177  
brown \ black \ black

11674<sup>✓</sup> " " ♀ 174

11675<sup>✓</sup> " " ♂ 181

11676<sup>✓</sup> " " ♀ 175

11677<sup>✓</sup> *Agriornis montana* ♂ 243  
brown \ black \ black

11678<sup>✓</sup> *Sicalis aureiventris* ♀ 155  
brown \ pale tan below variably below \ blackish below

\*\* 11679<sup>✓</sup> *Phrygilus unicolor* [tucumanus?] ♀ 158  
brown \ black, pale tan below variably \ black

11680<sup>✓</sup> " " " " ♀ 154

11681<sup>✓</sup> *Metriopelia amyra* (M) —  
blue \ black \ pink flesh

Chocayo, June 15

We went in car up to San Animas (about 14000 ft),  
& worked around over hills to north & west, going  
up to 15000 ft. Birds scarce, a few being found  
in more sheltered valleys where bunch grass &  
low brush are fairly abundant.

11682<sup>✓</sup> *Leptasthenura aegithaloides* ♂ 164  
brown \ black \ black

1-1

- \*\*  
 11683 ✓ Geositta punensis ♂ 158  
 brown \ black, pale horn blue below basally \ black.
- 11684 ✓ Asthenes modesta modesta ♂ 170  
 brown \ black, pale horn blue below basally \ black.
- 11685 ✓ Upucerthia ruficauda ♂ 202  
 brown \ black, bluish flesh below mainly \ black.
- 11686 ✓ " " " " ♂ 196
- 11687 ✓ " " " " ♂ 193
- 11688 ✓ Sicalis <sup>v.</sup> uropygialis ~~+~~ ♂ 148  
 brown \ black, horn blue below \ blackish horn  
 ~~~~~ Puerto ~~~~~
- 11689 ✓ Geositta punensis (=No 11683) ♂ 156  
 brown \ black, pale horn blue below basally \ black.
- 11690 ✓ Asthenes modesta modesta ♂ 176  
 brown \ black, pale horn blue below
- 11691 ✓ " " " " ♂ 179
- 11692 ✓ Upucerthia ruficauda ♂ 203  
 brown \ black, bluish flesh below mainly \ black.
- 11693 ✓ " " " " ♀ 201
- 11694 ✓ " " " " ♂ 200
- 11695 ✓ " " " " ♀ 195
- 11696 ✓ " " " " ♀ 199

Chocaya, June 16, 1936.

We both worked up hill behind camp & out on to plateau above. Birds extremely scarce, due probably to entire lack of water in that section.

I flunk a flock of 5 Large Tinamous (probably Nothoprocta), but failed to secure any. Bert worked further to east along same section.

11697 ✓ Muscisaxicola pallidiceps ♀ 178  
brown | black | black

11698 ✓ " " ♀ 173

11699 ✓ Muscisaxicola frontalis ♀ 198  
brown | black | black

11700 ✓ Sicalis aureiventris ♀ 149  
brown | blackish brown, brown blue below | dark brown

11701 ✓ " " ♀ 149

11702 ✓ " " ♀ 145

11703 ✓ " " ♀ 148

11704 ✓ Phrygilus t. fronticeti ♂ 195  
brown | brown horn, ridge blackish, pale brown below | brown horn

11705 " eaten" by cat. ♂ 193

11706 ✓ Motropelia aymara ♀ 188  
pale blue | black | pinkish pink



Berto

- 11707 ✓ *Ochthoeca oenanthoides* ♂ 157  
brown | black | black
- 11708 ✓ *Geositta rutipennis fasciata* ♂ 177  
brown | black, leaden blue below basally | leaden blue
- 11709 ✓ " " " " ♀ 178
- 11710 ✓ *Agriornis m. montana* ♀ 253  
pale hazel | black | black
- 11711 ✓ *Sicalis aureiventris* ♂ 155  
brown | blackish brown, pale brown below basally | blackish
- 11712 " " " " ♂ 152

Chocayo, June 17

We both went down to R.R. Station & I worked up the river on opposite side of Berto down, also back in hills. Most of my birds were taken around midday at some water seepages (mostly frozen over at noon) down in valley near the golf links. Berto got the two mammals & about 3 or 4 birds. The smaller mammal lives in burrows in the sand, somewhat like Gophers. I saw numerous burrows but no animals.

11713 ✓ "bigeachia" (M) 550-261-90-73 - ♂<sup>(car)</sup>

11714 ✓ "Gopher" ? (M) 272-83-40-8 ♀

- 11715 ✓ Leptasthenura aegithaloides beal. ♂ 162  
brown | black | black.
- 11716 ✓ Asthenes modesta modesta ♂ 176  
brown | black, horn blue below basally | black
- 11717 ✓ " " " " ♀ 175
- 11718 ✓ Muscisaxicola capistrata ♂ 179  
brown | black | black
- 11719 ✓ Geositta punensis ♂ 154  
brown | black, bluish flesh below basally | black
- 11720 ✓ " " " " ♀ 156
- 11721 ✓ " " " " ♀ 151
- 11722 ✓ " " " " ♀ 157
- 11723 ✓ " " " " ♀ 165
- 11724 ✓ " " " " ♂ 159
- 11725 ✓ " " " " ♀ 154
- 11726 ✓ " " " " ♀ 156
- 11727 ✓ " " " " ♂ 158
- 11728 ✓ " " " " ♀ 150

- 11729 ✓ *Phrygilus* <sup>gayi</sup> *atriceps* ♂ 177  
brown (black; bluish fluff below carally) black
- 11730 ✓ " " " ♀ 171
- 11731 ✓ " " " ♀ 164
- 11732 ✓ " " " imm ♀ 168
- 11733 ✓ " " " imm ♂ 171
- 11734 ✓ " " " imm ♂ 170
- 11735 ✓ " " " imm ♂ 167
- 11736 ✓ *Phrygilus* *p. plebejus* ♂ 135  
brown (black, pale bluish brown below carally)

Chocaya, June 18

I stayed in to skin yesterday's birds &berto went up on plateau back to camp, where I saw the Tinamous day before yesterday. He found them & made a clean up.

- 11737 ✓ *Asthenes m. modesta* (interior part) ♂ 174  
brown (black, pale brown below carally) black
- 11738 ✓ *Muscisaxicola pallidiceps* ♀ 177  
brown (black) black.
- 11739 ✓ *Upucerthia validirostris pallida* ♀ 208  
(Uniform colored, with cinnamon brown tail & long curved bill) brown (black, pale brown below carally) black

- \*\*
- 11740<sup>✓</sup> Tinamotss pentlandi vigors (M) ♂ 420  
 brown \ black \ grayish white
- 11741<sup>✓</sup> " " " ♀ 420
- 11742<sup>✓</sup> " " " juv ♀ 265  
 — | — \ dull drab.
- 11743<sup>✓</sup> " " " juv ♂ 280
- 11744<sup>✓</sup> " " " juv ♀ 265
- 11745<sup>✓</sup> " " " juv ♀ 248

3-3

|            | Total<br>Species | New<br>Species | Total<br>skins | (Mammals) |
|------------|------------------|----------------|----------------|-----------|
| Callipampa | 69               | 42             | 394            | 7         |
| Chocaya    | <u>3</u>         | <u>3</u>       | <u>80</u>      | <u>2</u>  |
|            | 72               | 45             | 474            | ( 9 )     |

Note = No. 11705 is missing, eaten by cat.

+

Alt. = 11,000 ft

[27]

Oploca, Dept. Potosi [Prov. Tupiza], June 20.

This is a large hacienda in the valley of the Rio  
 \_\_\_\_\_ . Low trees & shrubbery abundant in valley  
 + bushes on hills. We arrived at noon by train from  
 Chocaya. Bertie went shooting after lunch & I  
 stayed in to unpack & arrange business matters.

✓  
 11746 *Poospiza hypochondriaca* ♀ 167  
 brown | black, dusky plum below | black.

\*  
 11747 ✓ *Phytotoma rutila angustirostris* ♀ 197  
 gray hazel | blackish horn, pale horn below | black.

11748 ✓ " " " ♀ 212

11749 ✓ *Mimus dorsalis* ♀ 254  
 dusky yellow | black | black.

11750 ✓ " " " ♀ 253

11751 ✓ " " " ♂ 258

11752 ✓ *Thraupis b. bonariensis* ♂ 189  
 brown | black, dusky plum below | dark horn,

11753 ✓ " " " ♀ 199

\* (11712)  
 11754 ✓ *Columbina picui* — T.E ♂ 195  
 pale blue | black | purplish

- \*\*  
 11755<sup>✓</sup> *Amoropsittaca aymara* ♂ 212  
 brown | flesh, thick at base above | brownish flesh
- 11756<sup>✓</sup> " " ♀ 215

Op/oca, June 21 (Sunday)

Berta went out this morning, up quebrada to meet. I skinned birds left from yesterday

- 11757<sup>✓</sup> *Spizitornis f. flavirostris* ♂ 123  
 brown | black, orange below basally | black
- 11758<sup>✓</sup> *Asthenes d. d'orbigny* ♀ 164  
 brown | black, warm blue below | leaden
- \*\*  
 11759<sup>✓</sup> *Catamenia a. analis* juv ♂ 135  
 brown | black, yellow below | black
- 11760<sup>✓</sup> *Phrygilus p. plsbjius* ♀ 136  
 brown | black, pale brown below | blackish
- \*\*  
 11761<sup>✓</sup> *Sicalis luteocephala* ♂ 149  
 brown | black | leaden warm below
- 11762<sup>✓</sup> " " ♀ 146
- 11763<sup>✓</sup> " " ♂ 146
- 11764<sup>✓</sup> " " ♂ 150
- 11765<sup>✓</sup> " " ♂ 150

5-3

+

[28]

\*\* 11766 ✓ *Molothrus badius bolivianus* ♂ 209  
brown | black | black

11767 ✓ " " " " ♂ 205

11768 ✓ *Amorpsittaca aymara* (M) ♀ 210  
brown | pink, brown blue above basally | blackish

11769 ✓ " " " " ♀ 195

11770 ✓ *Metriopelia melanoptera* ♀ 223  
blue | black | leaden black

Oploca, June 22

I went out back of garden, up short valley, then down + south along garden wall to big valley running back to west. Crossed this valley, then down to R.R. + south to line of trees down way to river. Back north along river + trees to house.  
Berto

\*\* 11771 ✓ *Serpophaga munda* ♀ 118  
gray above, white below with double white wing bands  
brown | black | black

11772 ✓ *Muscisaxicola m. maculirostris* ♂ 153  
brown | black, yellow at base of tail | black

11773 ✓ " *pallidiceps* ♀ 178  
brown | black | black

11774 ✓ *Asthenes d'orbigny* (?) 165  
brown | black, pale brown below | leaden

7-5

7-5

+

11775 ✓ *Zonotrichia capensis pulacayensis* ♀ 169  
brown | black, brown blue below | brown brown

\*\* 11776 ✓ *Saltator aurant. bolivianus* ♂ 214  
brown | orange yellow | black

11777 ✓ *Thraupis b. bonariensis* ♂ 195  
brown | black, pink below | brown

\*\* 11778 ✓ *Pitangus sulphuratus bolivianus* ♀ 261  
brown | black | black

11779 ✓ *Cinclodes a. atacamensis* ♂ 217  
brown | black, pale at low below | black

11780 ✓ *Phytotoma rotula angustirostris* ♀ 194  
brown | black, brown blue below, pink below | blackish below

\*\* 11781 ✓ *Upucithia andacola* ♂ 212  
Buff, superciliosus + under parts, flanks streaked, Tail checkered  
brown | black, pink below especially at base | black

\*\* 11782 ✓ *Phrygillus dorsalis* ♀ 186  
tail tipped white; wings gray (brown brown)  
brown | black, brown blue below | dark brown

\* 11783 ✓ *Phrygillus f. fratercula* ♂ 203  
brown | brown brown | brown brown

11784 ✓ *Ammodramus psittacus* ♂ 206  
blue | pink, brown blue above variably | blackish

11785 ✓ *Gymnopselia ceciliae gymnapis* T.E. ♂ 186  
blue (yellowish above) | black | pink | pink

12-9



12-9

x

[29]

11786<sup>✓</sup> *Gymnopsalis ceciliae gymnops.*

♀ 182

— Buteo —

11787<sup>✓</sup> *Spizitornis f. flavirostris*

♂ 125

brown | black, orange below basally | black.

11788<sup>✓</sup> *Asthenis d. d'orbigny*

♂ 161

brown | black, horn blue below | leaden

11789<sup>✓</sup> *Upucerthia andaccola (= 11781)*

♂ 211

brown | black, flesh below mainly at base | black.

11790<sup>✓</sup> *Throupis b. benariensis*

imm ♂ 182

brown | black, pale horn below | blackish

\*\*

11791<sup>✓</sup> *Dyctiopicus lignarius puncticeps*

♀ 172

brown | black, flesh below | leaden

11792<sup>✓</sup> *Geositta rufipennis fasciata*

♂ 176

brown | black, leaden blue below basally | leaden

11793<sup>✓</sup> *Saltator aurant. bolivianus*

♀ 217

brown | black, yellowish below mainly | blackish

11794<sup>✓</sup> *Phrygilus dorsalis*

(M)

♂ 188

brown | black, leaden blue above | blackish

11795<sup>✓</sup> " "

♂ 183

11796<sup>✓</sup> " "

imm ♀ 172

11797<sup>✓</sup> *Mimus dorsalis*

♀ 256

dusky yellow | black | black

13-10

13-10

+

Oploca, June 23

I got out late today. (8<sup>15</sup>) Night very cold. See everywhere this morning. I crossed river & worked slopes on either side, then crossed below & worked back up R.R. Berta went up river for some distance, working both sides. I got in at 11<sup>30</sup>, went to bed at 12.

11798<sup>✓</sup> *Gymnoplegia ceceiliae gymnops* ♂ 186  
blue | black | pink flesh

\*\*  
11799<sup>✓</sup> *Oreotrochilus adela* ♀ 141  
black | black

11800<sup>✓</sup> *Spizitornis f. flavirostris* ♂ 125  
brown | black, orange below (partly) | black

11801<sup>✓</sup> *Leptasthis aegythales berl.* ♀ 170  
brown | black | black

11802<sup>✓</sup> *Ochthoeca aenanthoides* ♀ 158  
brown | black | black

11803<sup>✓</sup> *Muscisaxicola maculirostris* ♂ 154  
brown | black, yellow flesh at base below | black

11804<sup>✓</sup> " *capistrata* ♀ 167  
brown | black | black

11805<sup>✓</sup> *Spinus magellanicus bolivianus* ♂ 127  
brown | black, pale brown below (partly) | black

11806<sup>✓</sup> *Geothlypis rufipennis fasciata* ♀ —  
brown | black, brown below | leaden

14-11

14-11

x

[30]

- 11807 ✓ Saltator aurant. bolivianus ♂ 221  
brown | orange | blackish brown
- 11808 ✓ " " " " ♂ 218  
— | black, yellow below, especially | leaden brown
- 11809 ✓ Molothrus semibadius bolivianus ♂ 200  
brown | black | black
- 11810 ✓ Phytotoma rutila angustirostris ♂ 210  
dusky yellow | black, pale brown below | black
- 11811 ✓ " " " " ♂ 195
- 11812 ✓ " " " " ♂ 210
- 11813 ✓ Asthenes d. d'orbignyi ♀ 163  
brown | black, bluish pink below | leaden
- 11814 ✓ Upucerthia andaccola ♂ 204  
brown | black, pink at base below | leaden brown
- 11815 ✓ Sicalis lutrocephala ♂ 151  
brown | black | leaden brown
- 11816 ✓ " " " " ♂ 147
- 11817 ✓ " " " " ♂ 147
- 11818 ✓ Thraupis b. bonariensis ♂ 190  
brown | black, brown blue below | black
- 11819 ✓ " " " " ♂ 185
- 11820 ✓ " " " " ♂ 185
- 11821 ✓ " " " " ♀ 184
- | black, pink below locally | blackish

14-11

14-11

x

- 11822 ✓ *Phrygilus* <sup>gayi</sup> *atriciceps* ♀ 173  
brown, black, black, black below, brown horn
- 11823 ✓ *Turdus* *f. fuscator* ♂ 300  
hazel | orange | dirty yellow

Oploca, June 24.

Worked around behind the enclosed "harta" & up small valley to head.

Bert went up valley.

- 11824 ✓ *Oreotrochilus* *adela* ♀ 144  
black | black
- 11825 ✓ *Cotamania* *a. analis* ♀ 137  
brown | black, yellow below | black
- 11826 ✓ *Ochthoeca* *cevaethoides* ♂ 162  
brown | black | black
- 11827 ✓ *Muscivora* *maculirostris* ♀ 146  
brown | black, yellow at base of bill | brown
- 11828 ✓ *Upucerthia* *andaeola* ♀ 195  
brown | black, blue on sides, black below | black
- 11829 ✓ " " ♂ 203
- 11830 ✓ *Zenotrichia* *capensis pulacayensis* ♂ 175  
brown | black, pale brown below locally | pale brown

14-11

14-11

X

[31]

11831<sup>✓</sup> *Thraupis b. bonariensis* ♀ 191  
brown | black, flesh below | blackish

11832<sup>✓</sup> *Phrygilus t. fronticicola* ♂ 198  
brown | pale brown | pale brown

11833<sup>✓</sup> " " " ♀ 193  
— | blackish, dark brown below | —

11834<sup>✓</sup> *Phrygilus dorsalis* ♂ 180  
brown | black, blackish flesh below | leaden

11835<sup>✓</sup> *Amorpisittaca ayмара* ♂ 215  
brown | flesh, blackish brown above | dirty flesh

11836<sup>✓</sup> " " " ♂ 187  
— | brown blue, flesh below | —  
— Beak —

11837<sup>✓</sup> *Spinus magellanicus bolivianus* ♂ 130  
brown | blackish, pale brown above | blackish

11838<sup>✓</sup> " " " ♂ 125

11839<sup>✓</sup> " " " ♀ 124

11840<sup>✓</sup> " " " ♂ 127

11841<sup>✓</sup> *Spinus u. atratus* ♂ 136  
brown | blackish, yellow below | blackish

11842<sup>✓</sup> *Saltator aurant. bolivianus* ♂ 218  
brown | orange | leaden brown

14-11

14-11

+

11843<sup>✓</sup> *Phytotoma rutilis angustirostris* ♂ 205  
hazel | blackish brown, under blue brown | black

11844<sup>✓</sup> " " " " ♀ 206

\*\* 11845<sup>✓</sup> *Molothrus bonariensis* ♂ 212  
brown | black | black

11846<sup>✓</sup> " " " " ♂ 215

11847<sup>✓</sup> " " " " ♂ 213

11848<sup>✓</sup> *Phrygilus*<sup>gagi</sup> *atricaps* ♂ 179  
hazel | black, brown blue at base above below | brown

11849<sup>✓</sup> *Phrygilus f. fruticeti* ♂ 187  
brown | brown brown | brown

11850<sup>✓</sup> " " " " ♂ 194

11851<sup>✓</sup> " " " " ♀ 194  
— | blackish, brown brown below | brown

\*\* 11852<sup>✓</sup> *Columba albipennis* ♂ 350  
blue-gray | blackish, tip of eye brown | dark purple

11853 " " " " ♀ 200

Oploca, June 25

No shooting today. Bertie loaded 37 cartridges  
a day. I wrote up notes + went to Taysija  
in afternoon on business.

16-13 11854 " " " " ♂ 215

X

Oploca, June 26.

I hunted around inside the garden, up the valley behind it & around cecropia to Boca Torra, Bertr

11855 ✓ *Oreotrochilus adela* ♂ 140  
black | black

11856 ✓ *Oreotrochilus adela* ♂ juv 143  
black | black

\*\*  
11857 ✓ *Leptasthenura f. fuliginiceps* ♂ 160  
brown | black | leaden blue

\*\*  
11858 ✓ *Troglodytes musculus chilensis* (?) ♀ 132  
brown | black, bluish flesh below, flesh above | pale brown

11859 ✓ *Phacellodomus*<sup>s.</sup> *striaticops* ♀ 172  
I think this is different from N Bolivian birds  
gray | black, bluish flesh below | leaden blue

\*\*  
11860 ✓ *Passer* \_\_\_\_\_ (?) T.M.E. ♂ 160  
brown | black | brown brown

11861 ✓ " " ♀ 157  
\_\_\_\_\_ | \_\_\_\_\_; pale below (orally) | \_\_\_\_\_

11862 ✓ *Molothrus b. bonariensis* ♂ 215  
brown | black | black

11863 ✓ *Falco fusco-caerulescens pichincae* ♂ 380  
brown | olive yellow, tip black | yellow

\*  
11864 ✓ *Zenaidura auriculata hypoleuca* ♂ 251  
brown | black | pinkish blood

20-16

+

— Berta —

- 11865 ✓ *Zonotrichia capensis pulacayensis* ♀ 165  
brown/blackish, pale horn below pale brown
- 11866 ✓ *Saltator aurant. bolivianus* ♂ 218  
brown/orange/blackish
- 11867 ✓ *Upucerthia andāecola* ♀ 203  
brown/black, flesh below locally dark brown
- 11868 ✓ *Thraupis b. bonariensis* ♂ 189  
brown/black, flesh below dark brown
- \* 11869 ✓ *Hirundinea bellicosa pallidior* ♀ 182  
brown/black/black
- 11870 ✓ " " " ♀ 183
- 11871 ✓ *Catamenia a. analis* juv ♂ 132  
brown/yellow tip of max. black
- 11872 ✓ *Phrygilus dorsalis* ♂ 173  
brown/black, leaden blue below blackish
- 11873 ✓ *Dyctiopicus lignarius puncticeps* ♂ 185  
brown/black, dark horn below leaden
- 11874 ✓ *Agriornis m. montana* ♀ 250  
straw/black/black
- 11875 ✓ *Metriopelia melanoptera* ♀ 227  
blue/black/dark purple

21-16



Oploca, June 27.

I went horseback down the valley to the line of cliffs & worked the little valley this side & along the base, looking for Owls. Saw none. Wounded a huge Hawk, but lost it. The big fields just this side of cliffs, along river had many birds, Muscivora pallidiceps, copulata & maculirostris. Shot the G. tenuirostris then & agrorum. The Notthura was taken in lower part of little valley, in brush near Zungston ditch.

Bats went up valley & high up on hills to west, but found very little there, except the Upucerthis ruficauda. Both got back late.

11876<sup>✓</sup> Catamenia a. analis ♀ 136  
brown/blackish, yellow below & belly, blackish

11877<sup>✓</sup> Muscivora pallidiceps ♂ 173  
brown/black/blackish

11878<sup>✓</sup> Phacellodorus <sup>s.</sup> striaticeps ♂ 177  
gray/black, bluish flesh below, redder blue

11879<sup>✓</sup> Upucerthis andicola (streaked below) ♀ 208  
brown/black, bluish flesh below especially at base, under black

11880<sup>✓</sup> " " ♀ 202

11881<sup>✓</sup> " " ♂ 208

11882<sup>✓</sup> " " ♀ 198

11883<sup>✓</sup> Upucerthis demetoria hypoleuca ♂ 234  
brown/black, dusky flesh below especially, dark brown

21-16

+

11884<sup>✓</sup> *Geositta tenuirostris* ♂ 201  
brown | black, flesh at base below | blackish

11885<sup>✓</sup> *Muscisaxicola capistrata* ♂ 183  
brown | black | black

11886<sup>✓</sup> " " ♂ 178

11887<sup>✓</sup> *Thraupis b. benariensis* ♂ 200  
brown | black, flesh below | brownish black

11888<sup>✓</sup> *Phrygilus dorsalis* ♀ 185  
brown | brown | leaden blue below | leaden brown

11889<sup>✓</sup> " " ♂ 186

11890<sup>✓</sup> *Agelaius m. montana* ♀ 243  
dusky yellow | black | black

11891<sup>✓</sup> *Dyctiopicus lignarius puncticeps* ♂ 189  
brown | black, dusky brown at base below | leaden brown

11892<sup>✓</sup> *Zonotrichia capensis pulacayensis* ♀ 172  
brown | black, brown blue below | brown brown

11893<sup>✓</sup> *Molothrus semibadius bolivi-* ♀ 204  
brown | black | black

11894<sup>✓</sup> " " " " ♀ 194

\*\* 11895<sup>✓</sup> *Nothoprocta p. pentlandi* ♂ 280  
mailed | brown brown | flesh below | pale yellow

22-17

Oploca, June 28 (Sunday)

No shooting today, furnished cartridges & wrote up notes etc. An employee of finca brought an Tinamou to Berto, who skinned it after supper.

11896 ✓ *Nothoprocta p. pontlandi* ♂ 332  
hazel / brown above, (flat below) pale yellow

Oploca, June 29

Berto went up valley again today & in hills to left. Got the Tinamou & some small birds. I shot for an hour & a half in forest & behind it, but got only 2 good birds there, the little Flycatcher & 1 Pitangus. At 9 AM went with Turner in car into blue valley, to east & far up it. Got the Duck, Parula, Phainopepla & 2 Pitangus.

\*\* (112)

11897 ✓ *Aras specularioides alticola* ♂ 640  
orange / under blue, more black; below dusky yellow  
feet drab

11898 ✓ *Phalcoboenus m. megalopterus* ♂ 496  
brown / pale below blue / ear & skin orange yellow / pale yellow

\* 11899 ✓ *Phloscolus resplendens* ♂ 340  
carmine / black, pink basally, except nose / pinkish throat

11900 ✓ *Nothoprocta p. pontlandi* ♀ 283  
hazel / brownish black, dirty, flat below / pale, yellowish

\*\* 11901 ✓ *Gatinola chloropus garmani* chick ♂ —  
brown / bright red, flat below, ...

26-20

+

11902 ✓ *Oreotrochilus cestellae* ♀ 137  
black | black.

11903 ✓ *Seiropipera munda* ♀ 117  
brown | black | black.

11904 ✓ *Asthenes d. forbesi* ♀ 166  
brown | black, pale brown below locally | leaden

11905 ✓ *Phrygilus doisali* ♂ 183  
brown | black, leaden blue below | blackish brown

11906 ✓ *Thraupis b. panamensis* ♂ 190  
red-brown | black, pink below | blackish

11907 ✓ *Phytotoma rutilis angus* ♀ 208  
dusky yellow | blackish, brown blue below | blackish brown

11908 ✓ *Amerypsittaca ayamaru* ♂ 208  
brown | flesh, low above leaden blue | blackish

11909 ✓ *Turdus fuscater* ♂ 300  
brown | orange | dusky yellow |

11910 ✓ *Pitangus sulphuratus bolivianus* ♂ 277  
brown | black | blackish

11911 ✓ " " " " ♂ 271

11912 ✓ " " " " ♀ 271

11913 ✓ *Columbiga pici* ♀ 200  
pale blue | black | purplish black

11914 ✓ " " " " ♀ 184  
26-20

26-20]

(11915)

+

[35]

Oploca (Hacienda Salo) June 30

We came over here from Especa this morning in auto, leaving the Hacienda at 9<sup>30</sup> AM, to stay today & tomorrow. Arrived at 11 AM. & went at once down to the marsh where I shot the duck yesterday. All specimens listed below except the Leptasthenura were taken in marsh. The Sep. was shot in the pater at Especa this morning.

11915. ✓ Leptasthenura fuliginiceps ♂ 165  
brown \ black, pale (ear below basally) olive.

\*\*  
11916 ✓ Anthus correndera catamaiceae ♂ 166  
brown \ black, flat below, top black \ brownish red.

11917 ✓ Gallinago peruviana andina (?) ♂ 242  
brown \ black above, brownish below \ dull yellowish grayish.

11918 ✓ Phrygilus f. fruticeti ♂ 196  
brown \ dark brown above \ brown below

(113) ✓ 11919 "Gallinula" chloropus garmani C.S.E. ♀ 378  
brown \ crimson bill & shield, top of bill pea green \ green  
crimson on tibiae at base of feathers

(114) ✓ 11920 " " " T.S.E. ♂ 422

11921 ✓ " " " C.S.E. ♀ 378

(115) ✓ 11922 " " " ♂ 393

(116) ✓ 11923 Fulica gigantea ♂ 550  
brown \ dark crimson, long bill & shield white  
medially, yellow on both sides \ feet dull reddish, joints  
blackish.

27-21

27-21

+

(117) \*\* ✓  
 -11924 *Anas spinicauda* T.M.E. ♂ 550

brown \ yellow, tip black, ridge & nail black  
 below yellow, tip black \ drab, points dirty

(118) ✓  
 -11925 " " juv ♂ 475

— Evening Shooting —

11926 ✓ *Anthus correndera catamarcae* (♀) 163

brown \ black, tail below, black \ brownish, tip 4

11927 ✓ *Upoeerthia dometaria hypoleuca* ♂ 235

brown \ black, black, blue line variably, black line

(119) ✓  
 11928 *Anas spinicauda* (= no. 11924-5) T.M.E. ♂ 570  
 (See no. 11924)

(121) ✓  
 11929 " " T.M.E. ♂ 545

Op/oca (Salto), July 1

I went with the foreman & Indian boy high up in mts  
 to east, 4 hour journey on horseback, to try & get a Condor  
 or Tur. all I got was a *Vireo*, Owl & very sore stern.

Got back at 4:30 P.M. Birds shot at marsh in morning &  
 El Tangue in P.M. & got all the Ducks taken, also 3 Antlers.

11930 ✓ *Anthus correndera catamarcae* ♂ 161

brown \ black, plum below, tip black \ brownish plum

11931 ✓ " " " " ♂ 159

11932 ✓ " " " " ♂ 164

11933 ✓ Burrowing Owl ♀ 270

yellow \ greenish plum, blackish on sides of max \ dirty black

28-22

(120)

11934<sup>✓</sup> Pintail Duck ♀ 505brown \ yellow, ridge black, tip leader, below yellow, tip leader  
feet drab, points dusky.11935<sup>✓</sup> Oreotrochilus adelaidae ♂ 143  
black \ black

(122)

11936<sup>✓</sup> Pintail Duck ♀ 479

(see No. 11934)

not tag.

11937<sup>✓</sup> " " T.M.E. ♂ 565

not tag.

11938<sup>✓</sup> *Amis gularis* (T. small) ♂ 683

orange brown \ leaden blue, orange yellow below \ leaden drab.

11939<sup>✓</sup> "Viscacha" ♂ - 753 - 318 - 101 - 82.11940<sup>✓</sup> *Columba albipennis* ♀ 360

blue-gray \ black \ purple lead

Oplaca (Fuca Salo) July 2.

We both went out shooting in valley above mountains, working both sides + 2 brush valleys, but birds very scarce little that we missed. The birds most commonly seen here are *Aythya perbirois*, *Mareca pallidirostris*; *Phryganea p. phryganea*; *Fuca beloni*. Around the building *Zonotrichia* is common, also *Melospiza similis*. Occasionally seen are *Phryganea trochiloides*; *Mareca maculirostris*; *Sicalis arvensis*; *Phryganea atriceps*; *Sturnia atriceps*. *Upucerthia* (2 species) *cinclus fuscus* common everywhere along quebrada + irrigation ditches.

3 young *Flamingos* seen in valley + Duck marsh almost no trace of roseate on them. *Melospiza cyanea* + *Columba picayana* most abundant. Pigeon, but *Gymnophila ceciliae* also seen. *Fulica* (white duck) present in Duck marsh, about as abundant as at the Gallin

28-22

11941<sup>✓</sup> *Upocerthia dumetoria hypoleuca* ♂ 240  
brown/black, yellow flesh brown basally, dusky horn

11942<sup>✓</sup> " " " ♀(?) 226

11943<sup>✓</sup> " " " ♂ 233

11944<sup>✓</sup> " " " ♂ 234

11945<sup>✓</sup> *Upocerthia andaeicola* (new sp.) ♀ 209  
brown/black, yellow flesh brown basally, dusky horn

11946<sup>✓</sup> " " " ♂ 216

11947<sup>✓</sup> *Spinus a. atratus* ♀ 132  
brown/black, yellow at base horn (black)

11948<sup>✓</sup> " " " ♂ 133

11949<sup>✓</sup> " " " ♀ 135

11950<sup>✓</sup> *Soroplex v. rupicola* ♂ 365  
yellow/black leader horn

11951<sup>✓</sup> " " " ♀ 356

28-22

|                     | Additional Sp. | New Spec. | Total after more |
|---------------------|----------------|-----------|------------------|
| Chocaya             | 72             | 45        | 474              |
| Oplod               | 28             | 22        | 204              |
| 3 species not named | 100            | 67        | 678              |
|                     | 3              |           | (10)             |
|                     | 103            |           |                  |



X  
San Lorenzo, Dept. Tarija (7500ft.)  
July 8, 1936.

San Lorenzo is a small village up to right hand valley, above Tarija, distant 15 miles.

We both crossed the river, east of town, & hunted in the strip of thorn & other low trees along the east bank.

\*\*  
11952' *Lesbia sparganura* ♂ 182  
black \ black

11953' " " ♂ 188

11954' " " ♀ 124

11955' " " ♀ 123

11956' *Serpophaga munda* ♂ 125  
brown \ black \ black

11957' " " ♂ 121

\*\*  
11958' *Troglodytes musculus rex* ♂ 134  
brown \ black, flesh at base below \ reddish brown

11959' " " ♀ 130

11960' *Heptasternon f. fuliginiceps* ♂ 170

\*\* brown \ black, flesh at base below \ olive

11961' *Anthes fuscatus brevirostris* ♂ 163

brown \ black, flesh below \ brownish flesh

11962' " " ♂ 159

- \*\* 11963 *Pooecetes melanocephala* ♂ 143  
red-brown black, dark blue below black
- \*\* 11964 *Sicalis pelzelni tarimensis* ♀ 142  
brown blackish brown, bluish black below dusky brown
- 11965 " " " " ♀ 132
- 11966 *Spinus magellanicus bolivianus* ♀ 129  
brown blackish, dark brown below black
- 11967 *Thraupis b. bonariensis* ♂ 190  
brown black, pink below blackish brown
- \* 11968 *Thraupis sayaca* ♀ 184  
brown leaden blue, tip of max. black leaden blue  
dusky blue-gray above, pale ashy gray below, lower  
wing coverts & edges greenish blue
- \*\* 11969 *Knipolepus<sup>a</sup> aterrimus* ♂ 181  
brown pale leaden blue basally tip black
- \*\* 11970 *Embernagra olivascens* ♀ 221  
brown orange, ridge black dusky brown
- 11971 " " ♀ 224  
grayish blue above, wings bright olive green; tail  
darker above; sides of head around eye gray, throat  
ashy; below buffy, more grayish buff on chest &  
more deep buff on flanks
- \*\* 11972 *Lepidocolaptes angustirostris hellmayri* ♂ 220  
brown pale bluish flesh, base of max. dusky thin leaden
- 11973 " " " " ♂ 218

9-8

x

[38]

\*\*

11974 Mimus triurus

♂ 246

dusky yellow | black, blunt horn at base below | black

\*\*

11975 Xolmis murina

♀ 194

brown | black, dusky, fluff below | black.

11976 Pitangus sulphuratus bolivianus

♀ 268

brown | black | black.

\*\*

11977 Chrysoptilus melanoceros nigroviridis

♀ 298

brown | black | olive

\*

11978 Quira quira

T.M.E. ♂ 423

orange | red-orange | bluish olive

11979 Amorpisittaca aymara

♂ 213

brown | fluff, blunt at base above | brown fluff

11980 Zenaidura macroura

♂ 252

brown | black | pink blood

11981

"

"

♂ 267

San Lorenzo, July 9

Berto went out alone, started on to write up notes. He shot near outskirts of village to river, then on east side, in mountainous area.

11982 Lesbia sparganura

♀ 130

black | black

11983

"

"

♀ 125

11984

"

"

♀ 125

13-11

\*\* 11985<sup>✓</sup> *Comtostoma obsolotum* — — — — — <sup>subsp.</sup> ♀ 117  
brown | black | pluck | tan below | leaden

11986<sup>✓</sup> *Troglodytes musculus* ♂ 127  
brown | black, black | pluck below | dark brown

\*\* 11987<sup>✓</sup> *Asthernes pyrrholeuca affinis* ♀ 163  
brown | black, leaden | blue below, basally | leaden

\* 11988<sup>✓</sup> *Pyrocephalus rubinus* ♂ 146  
brown | black | black

\*\* 11989<sup>✓</sup> *Suiriri suiriri* ♂ 163  
brown | black | black

11990<sup>✓</sup> " " ♀ 162

11991<sup>✓</sup> *Knipolegus a. ateminus* ♀ 182  
brown | black, leaden | blue below, basally | black

11992<sup>✓</sup> *Xelobrychus melanurus* ♀ 188  
brown | black | pluck below, basally | black

\*\* 11993<sup>✓</sup> *Saltator aurantivestris bolivianus* ♂ 220  
brown | brown | black, below orange | leaden-brown  
(Same brown above; creamy, suffused with orange below, throat buffy)

11994<sup>✓</sup> *Lepidocolaptes ang. hellmayri* ♂ 210  
brown | whitish | brown | tan | black | blackish-brown

11995<sup>✓</sup> *Thraupis b. bolivianus* ♀ 181  
brown | black, pluck below | blackish-brown

11996<sup>✓</sup> " " " ♀ 190

18-15

X

[39]

11997 ✓ *Sicalis pelzelni* ♀ 140  
brown | blackish; hair blue below | dusky hair

\*\* 11998 ✓ *Turdus amaurochalinus* ♂ 245  
brown | yellowish, mottled with dusky | leaden hair

11999 ✓ *Embernagra olivascens* ♀ 225  
brown | orange-red, ridge black | olive brown

12000 ✓ " " " ♂ 236

\*\* 12001 ✓ *Leistes militaris superciliaris* ♀ 182  
brown | black, flesh below

12002 ✓ *Molothrus b. bonariensis* ♂ 220  
brown | black | black.

12003 ✓ " " " " ♀ 196

12004 ✓ *Columbina picui* ♀ 185  
brown | black | purplish black

\*\* 12005 ✓ *Falco sparverius eidos* ♂ 269  
brown | black apically, leaden blue basally | orange

12006 ✓ " " " " ♀ 298

San Lorenzo, July 10

I shot on east side of river in thorn scrub & larger trees along base of bluff. Birds searched in smaller valley to west of town & above.

\*\* 12007 ✓ *Nothura maculosa boliviana* ♂ 232  
brown | brown hair, flesh below | dusky flesh

12008 ✓ " Wild Guinea Pig (M) 195 - -42-17-♂

22-18

22-18

x

12009 ✓ *Lesbia sparganura* ♂ 176  
black | black

12010 ✓ " " ♂ 180

12011 ✓ " " ♂ 182

12012 ✓ " " juv ♂ 133

12013 ✓ *Serpophaga munda* ♂ 124  
brown | black | black

12014 ✓ " " ♀ 114

12015 ✓ " " ♂ 121

12016 ✓ " " ♀ 122

12017 ✓ *Camptostoma obsolotum* (5) ♂ 127  
brown | black, bluish | black | leaden black

\*\*  
12018 ✓ *Sublegatus mimedestus* ♀ —  
brown | black | black

slit wide bill; dark grayish skin above; wings blackish with 3 whitish bars & tertials edged with white; throat & chest ashy white, rest below yellow, also under wing coverts

12019 ✓ " *Suiriri suiriri* ♂ (M) 165  
brown | black | black

Pileum & nape gray, slit above grayish skin; below white, with ashy band across chest; lower wing coverts blue, rest of wing black, with 2 broad bars of dirty white; secondaries & tertials broadly edged with same color; tail blackish below, with outer web of outer rectrices white; under wing coverts dull sulphur

23-20

23-20

[40]

12020<sup>✓</sup> *Suiriri suiriri* ♀ 153

12021<sup>✓</sup> *Pooecetes melanocephala* imm ♂ 143  
gray-brown | black | black

12022<sup>✓</sup> " " ♀ 138  
red-brown | " | "

12023<sup>✓</sup> " " ♂ 139

\*\*  
12024<sup>✓</sup> *Lessonia rufa orea* ♀ 127  
brown | black | black

bill slender & long; above dark brown, darker on paler; wings mostly all black; primary & tail black; outer rectrices white on outer web; below, throat whitish, body buff brownish, feathers slightly edged with white; underparts white; basal half of tarsi (below) pale cinnamon with undercoverts buff.

\*\*  
12025<sup>✓</sup> *Cranioleuca pyrrhopygia striaticeps* ♀ 152  
red-brown | black, fluff below, tip black | leaden

12026<sup>✓</sup> *Sicalis pectoralis* (M) ♂ 135  
brown | blackish brown, black (feathers brown) | dark brown

12027<sup>✓</sup> " " ♂ 140

12028<sup>✓</sup> " " ♂ 141

12029<sup>✓</sup> " " imm ♂ 140

12030<sup>✓</sup> *Muscisaxicola maculirostris* ♂ 152  
brown | black, yellow below at base | black

12031<sup>✓</sup> *Knipolegus a. aterrimus* ♂ 181  
brown | leaden brown, tip black | black

25-22

25-22

X

12032 ✓ *Knipolegus a. atenuatus* ♀ 171  
brown | black, leaden blue at base below | black

12033 ✓ " " " ♂ 181  
— | leaden blue locally, black apically | —

12034 ✓ *Thraupis sayaca* ♀ 183  
brown | black, leaden blue below | leaden blue

12035 ✓ " " " imm ♀ 187

12036 ✓ " " " ♂ 177

12037 ✓ " " " ♀ 182

12038 ✓ *Lepidocolaptes angustirostris hellmayri* ♂ 223  
brown | bluish flesh, sides of max black locally | leaden

12039 ✓ " " " ♂ 231

12040 ✓ *Turdus amaurochalinus* ♂ 253  
brown | yellow, mottled with blackish | dark brown

12041 ✓ *Pitangus sulphuratus bolivianus* <sup>T.S.E.</sup> ♂ 226  
brown | black | black

12042 ✓ *Turdus s. fuscator* ♂ 285  
hazel<sup>red</sup> | orange | orange

25-22



25-22

X

[41]

San Lorenzo, July 11

Birds went out about 7 AM & shot down the river on west side. I stayed in & observed birds from gallery & wrote on field notes.

12043<sup>✓</sup> *Coccyzias sparveria* ♂ 177  
black \ black.

12044<sup>✓</sup> *Camptostoma obsoletum* ? ♀ 118  
brown \ black, brown below \ black

12045<sup>✓</sup> *Serpophaga munda* ♂ 121  
brown \ black \ black

12046<sup>✓</sup> " " ♂ 121

12047<sup>✓</sup> " " ♂ 120

12048<sup>✓</sup> " " ♂ 121

12049<sup>✓</sup> " " ♂ 120

12050<sup>✓</sup> " " ♂ 127

12051<sup>✓</sup> " " (T.E.) ♂ 125

\*\*  
12052<sup>✓</sup> *Charadrius collaris* ♀ 160  
brown \ black \ pink

12053<sup>✓</sup> " " ♂ 160

12054<sup>✓</sup> *Anthus forficatus brevirostris* ♂ 162  
brown \ black, pink below \ brownish pink

12055<sup>✓</sup> " " " " ♂ 164

26-23

26-23

x

12056 ✓ *Pooipiza melanoleuca* ♀ 135  
red-brown black, dark leaden below black

12057 ✓ " " ♂ 141

12058 ✓ *Knipolegus a. aterrimus* ♀ 170  
brown black, leaden blue below at base

12059 ✓ *Sicalis pelzelni* ♂ 148  
brown blackish brown, bluish flesh below dirty brown

12060 ✓ *Mimus triurus* ♀ 238  
yellow black, bluish flesh at base below black

12061 ✓ *Mimus dorsalis* ♂ 256  
dusky yellow black black

12062 ✓ *Nothura maculosa boliviana* (M) ♀ 250  
brown brownish black flesh below flesh.

<sup>S</sup>  
[123]  
12063 ✓ Fox ♀ - 790-220-120-65

12064 ✓ *Zenaida* ♂ —  
blue black pinkish blood.

San Lorenzo, July 12 (Sunday)

No shooting today. I wrote labels & field notes  
& Besto cleaned guns & did minor jobs. We went  
to bathe in River in P.M.

26-23

San Lorenzo, July 13.

Berta went to west of village, to other stream. I went east, across the river, along cliffs & out on plain above. Birds scarce on plain.

Xolmis, Anthus, Esthones d'arbiguy, Sparrow, pigeon & Sicalis. The Owl, Hawks & Cat shot along cliffs.

12065<sup>✓</sup> *Falco fusco-caerulescens* (M) ♀ 425  
brown | bluish blue basally, black apically | yellow  
cere & around eye, blue yellow

\*\*  
12066<sup>✓</sup> *Accipiter guttifer* ♀ 435  
yellow | black, dusky at base below; cere & base blue | blue yellow

\*\*  
12067<sup>✓</sup> *Bubo m. magellanica* ♀ 512  
yellow | black | claws black.

[159]<sup>S</sup>  
12068<sup>✓</sup> Ocelot 522-217-88-45 ♀ juv

12069<sup>✓</sup> *Lesbia sparganura* ♂ 187  
black | black

12070<sup>✓</sup> " " ♂ 177

12071<sup>✓</sup> " " ♂ 189

12072<sup>✓</sup> " " ♂ 173

12073<sup>✓</sup> " " ♂ 184

12074<sup>✓</sup> " " ♂ 189

12075<sup>✓</sup> " " juv ♂ 140

28-25

X

12076 ✓ *Leptasthenura f. fuliginiceps* ♀ 169  
brown/black, flesh below basally | dark olive

12077 ✓ " " " " ♂ 168

\*\* 12078 ✓ *Synalaxis frontalis fuscipennis* ♂ 170  
gray/black, leaden blue below | pine brown

12079 ✓ *Cranioleuca pyrrhopia atriceps* ♀ 149  
red-brown/black, flesh below | dark olive leaden

12080 ✓ *Poospiza melanoleuca* ♂ 143  
gray/black, dusky brown at base below | black

12081 ✓ " " " " ♂ 137

12082 ✓ *Suiriri suiriri* ♂ 166  
brown/black/leaden

12083 ✓ *Asthenes d. abignyi* ~~n. subsp?~~ ♂ 166  
red-brown/black, bluish flesh below basally | leaden

12084 ✓ " " " " ♀ 160

12085 ✓ *Spinus magellanicus bolivianus* ♂ 126  
brown/dusky brown basally, blackish tip | black

12086 ✓ " " " " juv ♂ 123

12087 ✓ " " " " ♀ 124

12088 ✓ " " " " juv ♂ 126

12089 ✓ *Turdus amaurochalinus* ♂ 240  
brown/blackish/leaden brown

29-26

29-26

+

[43]

12090 ✓ *Xelmis marina* ♀ 192  
brown | black, dusky, flab below basally | black

12091 ✓ " " ♀ 189

12092 ✓ *Knipolegus a. aterrima* ♀ 177  
brown | black, leaden blue at base below | black

12093 ✓ " " " ♀ 175

12094 ✓ *Sicalis pelzelni* ♀ 143  
brown | blackish, flab below | pale brown

San Lorenzo, July 14

I hunted in cliffs & canyon on east side & river  
for owls, also in chacras on this side above  
village. Berta worked above pueblo on west  
side.

12095 ✓ *Campylostoma obscurum subsp?* ♀ 124  
brown | black, dusky, flab below | leaden black

12096 ✓ *Heptasthonus f. fuliginiceps* ♂ 158  
brown | black, dusky, flab below basally, etc.

12097 ✓ " " " ♀ 160

12098 ✓ *Cranioleuca pyrrhopia straticeps* ♂ 160  
red-brown | black, flab below | olive.

12099 ✓ *Troglodytes muscivorus* ♂ 132  
brown | black, flab below, tip dusky | dusky flab.  
~~~~~ label to here

12100 ✓ *Asthenes darwini* — *n. subsp?* ♀ 169  
brown | black, blue flab below | leaden blue

12101 ✓ *Knipolegus a. aterrima* ♀ 177  
brown | black, leaden blue below basally | black

29-26

29-26

+

12102 ✓ *Lepidocolaptes angustirostris hellmayri* ♂ 217  
brown | bluish white, max blackish | basal | sides | long

12103 ✓ " " " ♀ 230

12104 ✓ " " " T.E. ♂ 208

12105 ✓ " " " ♀ 225

12106 ✓ *Phytotoma rufus angustirostris* ♀ 208  
brown | blackish, bluish yellow below | black

12107 ✓ *Xelobrychus pyrrhinus* ♂ 197  
brown | black, dusky black below basally | black

12108 ✓ *Turdus amaurochalinus* ♂ 253  
brown | dull yellow, olive | mottled with blackish | black brown

12109 ✓ *Mimus dorsalis* ♂ 265  
dusky yellow | black | black

12110 ✓ *Molothrus semibadius bolivianus* ♀ 204  
brown | black | black

12111 ✓ *Falco sparverius oedias* ♀ 271  
brown | body blue basally, black apically | pale orange

12112 ✓ *Columbina picui* ♂ 197  
pale blue | black, feet at base below | purplish throat

12113 ✓ " " " ♂ 195

12114 ✓ *Nothura maculosa boliviana* ♀ 245  
brown | brown down, flesh below | flesh

12115 ✓ *Bubo mimagellanicus* ♀ 506  
yellow | black | claws black

29-26

29-26

X

Road between Villazon + Tarija (alti plains) July 14

[44]

[160]<sup>S</sup>

12116 ✓ Phoenicopterus chilensis juv 782  
brown | leaden blue, tip jaws black | leaden black

San Lorenzo, July 15

No shooting today. sent to loaded cartridge +  
labelled + wrapped birds, wrote letters + labels  
till noon, then went to Tarija.

San Lorenzo, July 16

I set traps last night on east side of river for  
foxes + coon (6) but caught nothing. Shot  
on east side + on this side of river below town.  
Best went into bush, sent a train  
he got the new Microstrickia Uta + Mimus saturninus.

12117 ✓ Chrysoptilus melanochlorus nigrovirens ♀ 300  
red-brown | black, (olive)

12118 ✓ " " " ♂ 310

12119 ✓ Saltator aurantirostris bolivianus ♀ 226  
brown | black, pale brown below, mainly | black

12120 ✓ Lepidodactylus angustirostris bolivianus ♂ 219  
brown | white inner, long max beak on side | leaden

12121 ✓ Knipolegus a. aterrimus ♂ 186  
brown | leaden blue, ~~black~~ | black

12122 ✓ " " " ♂ 187

12123 ✓ " " " ♂ 189

12124 ✓ " " " juv ♂ 185

29-26

29-26

+

\*\*

12125 ✓ *Mimus saturninus modulator* ♂ 276  
greenish-yellow | black | black

12126 ✓ " *dorsalis* (M) ♀ 261  
yellow | black | black

12127 ✓ " " ♀ 267

12128 ✓ *Falco sparverius* ♂ 268  
brown | lesser blue | brown, top black | orange

9 number duplicated - transferred to no 12214/15

\* 12129 ✓ *Tanager chlorotica cinnicatis* ♂ 113  
brown | lesser blue, sides & max black | white

12130 ✓ " " " " juv ♂ 111

12131 ✓ *Petrochelidon a. andecola* ♂ 137  
brown | black | blackish brown

12132 ✓ " " " " ♂ 139

12133 ✓ *Anthus furcatus brevirostris* ♂ 164  
brown | black, pink below, tip dusky | brown brown

12134 ✓ *Leptasthenura f. fuliginiceps* ♂ 163  
brown | black, dusky brown below | olive

12135 ✓ *Cranioleuca pyrrhopia striaticeps* ♀ 148  
red-brown | black, pink below | olive

12136 ✓ " " " " ♂ 157

12137 ✓ " " " " ♂ 157

32-28



32-28

X

[45]

12138 ✓ *Suiriri suiriri* ( ) ♀ 156  
brown | black | black

\*\*  
12139 ✓ *Oreotrachilus leucopleurus* ♂ 132  
black | black

12140 ✓ " " " ♂ 134

12141 ✓ " " " ♂ 132

12142 ✓ " " " ♂ 131

San Lorenzo, July 17

Nothing in traps, but one missing, shot to which I was  
tied tomorrow. Pigeon eaten at another (but trap not sprung, I shot  
out on plain east of river & far up valley to hills, then  
down long valley, when it got into river just above town  
Berta shot up on hills on west side of village

12143 ✓ *Mimus dorsalis* ♂ 255  
yellow | black | black (feet discolored)

12144 ✓ " " " ♂ 268

12145 ✓ *Oreotrachilus leucopleurus* ♂ 136  
black | black

12146 ✓ " " " ♂ 136

12147 ✓ " " " ♂ 130

12148 ✓ " " " ♂ 135

12149 ✓ " " " ♂ 137

12150 ✓ " " " ♂ 133

12151 ✓ " " " ♀ 127

33-29

33-29

+

- 12152 ✓ *Lesbia sparganura* juv ♂ 122  
black | black
- 12153 ✓ *Spizitornis flavirostris* ♂ 119  
brown | orange, apical 1/2 of max. black | black
- 12154 ✓ *Leptasthenura f. fuliginiceps* ♂ 169  
brown | black, bluish black at base below | olive
- 12155 ✓ *Suiriri suiriri* ♂ 162  
brown | black | black
- 12156 ✓ *Catamonia aialis* ? juv ♂ 140  
brown | yellow, tip of max. blackish | blackish
- 12157 ✓ " " " ♀ 132  
— | blackish, yellow below —
- \*\* 12158 ✓ *Zonotrichia capensis australis?* ♀ 148  
brown | blackish brown, pal non brown | brown brown
- 12159 ✓ " " " ♂ 160
- 12160 ✓ *Spinus magellanicus bolivianus* ♂ 127  
brown | pale brown basally; black apically | black
- 12161 ✓ " " " ♂ 128
- 12162 ✓ " " " ♂ 127
- 12163 ✓ " " " juv ♂ 126
- 12164 ✓ " " " ♀ 125

34-30

- 12165 ✓ Saltator aurantirostris bolivianus ♂ 220  
brown | orange | black
- 12166 ✓ " " " ♀ 225  
— | black, orange yellow below mesially | blackish
- 12167 ✓ Embernagra olivascens ♂ 227  
brown | orange red, ridge of culmen black | pale brown
- 12168 ✓ " " " ♀ 226
- 12169 ✓ Xolmis murina ♀ 190  
brown | black, pale horn below basally | black
- 12170 ✓ " " " ♂ 198
- 12171 ✓ Phylotoma rubilus angustirostris ♂ 210  
pale hazel | blackish brown, horn blue below | blackish
- \*\*  
12172 ✓ Myiotheretes striaticollis ♀ 237  
brown | black | black
- San Lorenzo, July 18  
I went across river to east & worked down to  
end of minute & back. Nothing in traps.  
Besto worked north west again.
- \*\*  
12173 ✓ Chlorostilbon a-v. aureo-ventris (?) T.E. ♂ 101  
pink flesh above below, top black | black
- \*  
12174 ✓ Colibri iolatus ♀ 137  
black | black
- 12175 ✓ Leptasthenura f. fuliginiceps ♂ 163  
brown | black, pale horn below basally | blue
- 37-32

- 12176 ✓ *Suiriri suiriri* ♀ 162  
brown | black | black
- 12177 ✓ " " ♀ 161
- 12178 ✓ *Lessonia rufa orcas* ♂ 135  
brown | black | black
- 12179 ✓ *Thraupis sayaca* ♂ 177  
brown | black, leaden blue
- 12180 ✓ *Sicalis pelzelii* ♂ 138  
brown | black with brown spots below | dusky below
- 12181 ✓ *Zonotrichia capensis hypoleuca* ♀ 158  
brown | black with brown spots below | brown with brown
- 12182 ✓ *Amorphsittaca aymara* ♂ 219  
brown | brown blue, pink below | dusky below
- \*\*  
12183 ✓ *Rallus s. sanguinolentus* ♂ 340  
red | gray green, blue at base of max & red at base on  
sides | dark cinnamon  
—— Berta. ——
- 12184 ✓ *Paroepipicus rufinus* ♂ 145  
brown | black | black
- 12185 ✓ " " " ♂ 152
- \*  
12186 ✓ *Satrapa icterophrys* ♂ 178  
brown | black | black
- \*\*  
12187 ✓ *Poospiza whitii* ♀ 143  
brown | black, brown blue below | blackish below

- 12188 ✓ *Saltator aurantirostris bolivianus* ♀ 218  
brown blackish, orange yellow below blackish
- 12189 ✓ *Knipolegus a. aterrimus* ♂ 182  
brown leaden blue, top black black
- 12190 ✓ " " " " juv ♂ 185
- 12191 ✓ *Lepidocolaptes angustirostris bellmayri* ♂ 223  
brown bluish white, large max blackish on sides Baden
- 12192 ✓ *Phytotoma rutilus angus.* — ♂ 210  
yellowish blackish brown, fluff below blackish
- 12193 ✓ *Myiothraetes striaticollis* ♂ 241  
brown black black
- 12194 ✓ *Turdus chiguanco anthracinus* ♀ 276  
brown blackish lateral, brownish yellow apically yellow
- 12195 ✓ *Quira quira* ♀ 398  
orange red brownish orange, tan on sides skin leaden blue

San Lorenzo, July 19 (Sunday).

We both took very long trips up valley, I on east side up long dry arroya to hills, then north & down another arroya to main valley, where there is a fine ice cold stream. He did same on west side, coming out on main stream nearly where I did. We met up then on way back & came in together. Birds very scarce

- 12196 ✓ *Catamania a. analis* ♀ 135  
blackish brown, yellow below black
- 12197 ✓ " " " " ♀ 125

40-34

+

12198 ✓ *Catamania a. analis* ♀ 132  
(see 12196)

\*\*  
12199 ✓ *Schistospiza griseocristata* ♀ 143  
brown | black, throat & mand. flat | black

12200 ✓ *Cranioleuca pyrrhopia striaticeps* ♂ 154  
brown | black, bluish flat below

12201 ✓ *Zonotrichia capensis australis* ♂ 157  
brown | dusky, brown below | blackish brown

12202 ✓ *Pooecetes melanocephala* ♀ 138  
hazel | black, black

12203 ✓ " " ♂ 143

12204 ✓ *Sicalis velutina* im ♂ 143  
brown | blackish, bluish flat below | dusky brown

12205 ✓ *Saltator aurantiostris bolivianus* ♂ 220  
black, pale yellow below apically | dusky brown

12206 ✓ *Xolmis mirans* ♀ 198  
brown | black, bluish throat & below | black

12207 ✓ " " ♀ 190

12208 ✓ " " ♀ 195

12209 ✓ *Turdus amaurochalinus* ♀ 234  
hazel | black, pale below throat | dusky

12210 ✓ *Phytoloma rotitarsus* ♂ 202  
hazel | black, bluish olive below | black

12211 ✓ *Mimus dorsalis* (M) ♀ 257  
yellow | black | black

41-35

12212 ✓ *Mimus discalis*

♀ 52

(see 12211)

12213 ✓

"

"

♀ 252

|             | <u>Skins</u> | <u>Total Species</u> | <u>Sp. not taken Previous</u> | <u>Wann</u> |
|-------------|--------------|----------------------|-------------------------------|-------------|
| Oploca      | 678          | 103                  | 67                            | 10          |
| San Lorenzo | <u>262</u>   | <u>41</u>            | <u>35</u>                     | <u>3</u>    |
|             | 940          | 144                  | 102                           | 13          |

(61 species taken at San Lorenzo)

(number missing up to here)

Large bird fair return begun at Asloca.  
 All 32 cart loads below leaving San Lorenzo,  
 about 1000 in all, evenly divided between 12 & 16.

\*\*

12214 ✓ *Compsothlypis p. pitiaiyomi*

♀ 113

brown | black, yellow flesh below | brown horn.

12215

Bat

L = 70 (no tail) H.F. 13

♂

X

(Rio Merced)

La Merced, July 26 (Sunday) 5000 ft.

Got out about about 8<sup>45</sup> both starting up the narrow valley. Got in at 11<sup>30</sup> + Bute at 12<sup>15</sup>. Lunch very late, began working at 2<sup>45</sup>.

\*\* 12216 ✓ *Aratinga m. mitrata* ♂ 372  
 Pale hazel | brownish flush | brownish flush

12217 ✓ " " ♀ 360

\* 12218 ✓ *heptoptila verreauxi decipiens* ♀ 296  
 brown | black | purplish black.

12219 ✓ *Serpophaga munda* ♀ 114  
 brown | black | black.

12220 ✓ *Spizitornis f. flavirostris* ♂ 119  
 brown | black, orange below, top black | black.

12221 ✓ *Compsothlypis p. pitiaquumi* ♀ 112  
 brown | black, yellow flush below | yellowish brown

12222 ✓ " " ♂ 118

\*\* 12223 ✓ *Myioborus b. brunneiceps* ♂ 146  
 brown | black | black

\*\* 12224 ✓ *Picumnus d'orbignyianus* ♀ 103  
 brown | black, tan blue below | leaden blue

12225 ✓ *heptasthenura f. fuliginiceps* ♀ 167  
 brown | black, leaden at base below

12226 ✓ *Troglodytes muscolus rex* ♀ 128  
 brown | black, bluish flush below | dusky flush

4-3



- 12227 ✓ *Tanagra aurea serrirostris* ♀ 114  
brown | black, leaden blue at base below | leaden
- \* 12228 ✓ *Pipraidea melanonota venezuel.* ♂ 150  
red | black, leaden blue below | blackish
- \*\* 12229 ✓ *Pooeciza boliviana* ♂ 162  
brown | black, leaden blue below | dusky horn
- 12230 ✓ " *Pooeciza whitii* ♂ 147  
brown | black, pale leaden blue below basally | blackish horn
- \* 12231 ✓ *Coryphospingus cucullatus* ♂ 149  
brown | black, horn blue below basally | dark horn.
- 12232 ✓ " " ♀ 148
- 12233 ✓ " " ♀ 146
- 12234 ✓ *Saltator aurantiirostris boliviana* ♀ 222  
brown | blackish, dusky yellow below mesially | blackish horn
- \* 12235 ✓ *Sayornis nigricans* ♂ 192  
brown | black | black
- \* 12236 ✓ *Pheucticus<sup>a.</sup> aureoventris* ♂ 226  
brown | black, horn blue below | leaden horn
- 12237 ✓ *Knipolegus a. aterrimus* juv ♂ 152  
brown | leaden blue, tip black | black

9-4

+

La Merced, July 27.

We both worked up the valley, but Bente went up the right branch just above pueblo, while I followed up the main stream. I did not get back till 10.30

12238 ✓ *Leptoptila verreauxi* (decipiens?) ♂ 305  
brown | black | purplish blood

12239 ✓ *Compsothlypis p. pitagorae* ♂ 118  
brown | black, yellow below | yellowish brown

12240 ✓ *Myioborus b. brunneiceps* ♂ 146  
brown | black | black

(12240) = 12317

\* 12241 ✓ *Macrocerculus l. leucophrys* ♀ 137  
brown | black | black

12242 ✓ " " " " ♂ 144

\*\* 12243 ✓ *Pooeciza erythrophrys* ♂ 145  
brown | black, brown below below | dark brown

Abdomen olive brown, pterum cinnamon; broad supercilium + under parts cinnamon infra, abd. whitish; 2 outer rectrices with blackish ends; greater wing coverts tipped ochraceous + outer primary edged white

\*\* 12244 ✓ *Thamnotrichus ruficapillus cochabambae* ♂ 172  
hazel | black, brown below | leaden brown

12245 ✓ *Synallaxis frontalis fuseipennis* (?) ♀ 171  
hazel | black, brown below | olive

12246 ✓ *Leptasthenura f. fuliginiceps* ♀ 161  
brown | black, flesh below | olive

12-6

12-6

+

[50]

12247<sup>✓</sup> *Cronioleuca pyrrhopia striaticeps* ♀ 147  
brown | black, fluff below locally | olive

12248<sup>✓</sup> " " " " ♀ 150

\*\*  
12249<sup>✓</sup> *Phacellodomus striaticollis maculipectus* ♀ 180  
gray-brown | black, fluff below | pale brown

12250<sup>✓</sup> *Pooipiza melanoleuca* ♂ 137  
red | black | black

12251<sup>✓</sup> " " " mi ♂ 140

12252<sup>✓</sup> *Picumnus d'orbignyans* (T.E) ♂ 108  
brown | black, - leaden blue below locally | leaden

12253<sup>✓</sup> " " " ♀ 105

12254<sup>✓</sup> " " " ♂ 107

12255<sup>✓</sup> " " " ♀ 103

12256<sup>✓</sup> *Tanager aurea semivestris* ♂ 115  
brown | black, leaden blue below | black

12257<sup>✓</sup> *Pooipiza boliviana* ♂ 157  
brown | black, leaden blue below | dark brown

12258<sup>✓</sup> *Catamenia analis* ♂ 124  
brown | yellow locally, black typically | black.

12259<sup>✓</sup> *Saltator aurantiiventris* <sup>bolivianus</sup> ♂ 210  
brown | orange | blackish brown

12260<sup>✓</sup> *Thraupis sayaca* ♂ 181  
brown | black, leaden blue below | leaden blue

13-7

13-7

x

12261 ↓ *Sayornis nigricans* ♂ 201  
brown | black | black.

12262 ↓ *Lepidocolaptes angustirostris* — ♂ 221  
brown | white horn, base of max blackish | dark horn.

\*\* ↓  
12263 *Turdus rufigiventris* ♂ 256  
brown | dark olive, pale olive below | dusky horn.

\* ↓  
12264 *Chloroneryx rubiginosus tucumanus* ♀ 244  
brown | black | leaden.

La Merced, July 28

Went up in same valley to east, until I hunted entirely in the orchards & brush between road & the river, up as far as Bertr's creek. I came in at 11 o'clock in order to change rooms. I had 10 birds, with 6 new species.

12265 ↓ *Compsothlypis p. pitiaquam* ♂ 112  
brown | black, yellow below | yellowish brown

\*\* ↓  
12266 *Euscarthmornis m. margaritaceiventris* ♂ 124  
orange-brown | blackish, dusky flesh below | reddish flesh.  
Above dark olive, pileum brownish gray; base whitish  
auricular brownish gray; lower wing coverts color of back; median  
& greater blackish, tipped with yellowish olive, forming 2  
bars; quills edged with same, also tail; throat & breast  
grayish white, latter streaked with dusky; rest below  
whitish, flanks tinged with dull yellowish, also creases  
edge of wing yellow, but under coverts white.

16-9

16-9

x

[51]

\* 12267 ✓ *Tanager a. aureata* ♀ 122  
brown | black, leaden at base below | leaden

12268 ✓ *Coryphospingus cucullatus* ♂ 143  
brown | black, bluish flesh below | blackish horn

\*\* 12269 ✓ *Arremon. flavirostris d'orbignii* ♂ 165  
brown | yellow, ridge of culmen black | bluish horn

12270 ✓ *Poospiza boliviana* ♀ 160  
brown | black, bluish flesh below | dark horn

\*\* 12271 ✓ *Piranga flava flava* ♂ 200  
brown | black, leaden blue below | dark horn

\*\* 12272 ✓ *Cyclarhis gujanensis cearensis* ♂ 172  
yellow | brown horn, leaden blue below (basally) | bluish horn

12273 ✓ " " " ♀ 171  
— Berta —

12274 ✓ *Myerocerculus l. leucophrys* ♂ 144  
brown | black | black

12275 ✓ " " " ♀ 132

12276 ✓ *Myioborus b. brunneiceps* ♂ 148  
brown | black | black

12277 ✓ *Leptasthenura f. fuliginiceps* ♀ 168  
brown | black, pale horn at base below | bluish

12278 ✓ *Synallaxis frontalis fuscipennis* ♂ 170  
hazel | black, bluish flesh below | dull olive

20-12

20-12

x

12279 ✓ *Thamnophilus ruficapillus cochabambae* ♀ 168  
red-brown | black, leaden blue below | leaden blue

12280 *Poospiza whitii* ♀ 150  
brown | black, leaden blue below, tip black | blackish brown

12281 ✓ *Asthenes d'orbigny* — *montana?* ♂ 172  
brown | black, bluish pink below | leaden blue

12282 ✓ *Catamania aenealis* ♂ 133  
brown | yellow, tip dusky | blackish brown

12283 ✓ *Poospiza erythrophrys* (No 12243) ♂ 141  
brown | black, leaden brown below | brown sides

12284 ✓ *Sicalis pelzelni* ♂ 139  
brown | dusky brown, pink below | pale brown

12285 ✓ *Poospiza boliviana* ♀ 156  
brown | black, bluish pink below | brown blue

12286 ✓ " " ♂ 162

12287 ✓ " " imm ♀ 157

12288 ✓ *Embernagra olivascens* ♂ 229  
brown | orange, ridge black | brown brown

12289 ✓ " " " ♂ 224

12290 ✓ " " " (ticks) ♀ 218

\* 12291 ✓ *Piaya cayana obscura* ♂ 522  
carmine | bluish olive | leaden blue

21-12

12292 ✓ *Falco sparverius eidos* ♀ 281  
 brown | horn blue basally, black apically | brownish yellow

La Merced, July 29.

Another "Surrayo" today, & birds hard to find & shooting very disagreeable. I wanted same place as yesterday, but found nothing much there & then went up main stream for a short distance. Berto wanted his quebrada. Coffee very late, about 8:15 & then tea. Back at 12:10.

\* 12293 ✓ *Leucippus chionogaster hypoleucus* (?) ♀ 117  
 black, flesh at low below | black

12294 ✓ " " " " (♂) 114

12295 ✓ *Spizitornis flavirostris* ♀ 116  
 brown | black, orange below, tip black | black

12296 ✓ *Compsothlypis p. pitiaueri* ♂ 115  
 brown | black, yellow below | yellowish brown

12297 ✓ " " " " ♀ 116

12298 ✓ *Microcerculus l. leucophrys* ♂ 142  
 brown | black | black

12299 ✓ *Tanagra aurea sordidioris* ♂ 115  
 brown | black, leaden blue below, tip black | leaden brown

12300 ✓ " " " " ♀ 109

12301 ✓ *Cranioleuca pyrrhopia striaticops* ♂ 157  
 red-brown | black, flesh below | olive

12302 ✓ *Synallaxis frontalis fuscipennis* ♂ 167  
 hazel | black, leaden blue below | olive

22-12

X

- 12303 ✓ *Poospiza melanoleuca* ♂ 142  
brown/black/black
- 12304 ✓ " " " ♂ 137
- 12305 ✓ *Poospiza whitii* ♂ 148  
brown/black, some blue below locally/blackish brown
- 12306 ✓ " " " ♂ 148
- 12307 ✓ *Coryphospiza cucullata* ♂ 147  
brown/dark, bluish plum below locally/blackish
- 12308 ✓ " " " ♂ 150
- 12309 ✓ " " " ♂ 147
- 12310 ✓ *Cyclorhynchus gujarensis cearensis* ♀ 175
- 12311 ✓ *Zonotrichia capensis hypoleuca* ♀ 156  
brown/blackish, brown blue below dusky plum, feet brown
- 12312 ✓ *Knipolegus a. aterrimus* ♂ 186  
brown/under plum tip black/black
- 12313 ✓ *Pitangus sulphuratus bolivianus* ♂ 249  
brown/black/black
- 12314 ✓ *Melothrus geminatus bolivianus* ♀ 197  
brown/black/black
- 12315 ✓ *Amphispitlaca curruca* ♂ 209  
brown, flesh, black at base, max/dark flesh
- 12316 ✓ " " " ♀ 209

22-12



22-12

+

[53]

12317 *Myioborus l. brunneiceps*  
brown | black | black

♂ 143

La. Herod, July 30.

I shot down the valley today, going about 3 miles.  
Birds not very abundant & very little cover. Much  
of valley is swept by river in rainy season & is strewn  
with boulders, among which grow acacias & some  
Mulle Trees & other brush. A few fields along east  
side. Birds swept up into hills to east &  
about a mile or so below village.

12318 ✓ *Leucippus chionogaster* (?) (?) ♀ 114  
black, basal 1/2 below black | black.

12319 ✓ " " " " ♂ 118

12320 ✓ " " " " ♀ 115

12321 ✓ " " " " ♂ 115

12322 ✓ " " " " ♂ 116

12323 ✓ *Synallaxis frontalis fuscipennis* ♂ 172  
hozel | black, horn blue below olive

12324 ✓ *Cranioleuca pyrrhopia striaticeps* ♀ 151  
red-brown | black, bluish flesh below | olive

12325 ✓ *Picumnus d'orbignyianus* ♂ 102  
brown | black, bluish flesh below basally | bluish olive.

\* 12326 ✓ *Streptoprocne<sup>t.</sup> torquata* ♂ —  
brown | black, dusky yellow below basally & on side |  
yellowish brown)

23-12

23-12

+

12327 ✓ *Tanagra aurea serrirostris* ♂ 110  
brown | black, leaden blue below basally | leaden

12328 ✓ " " " " ♂ 116

12329 ✓ *Tanagra aureata* ♀ 124  
brown | black, leaden blue below | leaden blue

12330 ✓ *Satrapa icterophrys* ♂ 173  
brown | black | black

12331 ✓ " " " " ♀ 171

12332 ✓ *Thraupis b. bonariensis* ♂ 188  
brown | black, flesh below basally | black

12333 ✓ " " " " ♀ 190

12334 ✓ *Piranga flava flava* ♂ 202  
brown | black, leaden blue below | dark brown

12335 ✓ " " " " ♀ 198

12336 ✓ *Peospiza whitii* ♂ 156  
brown | black, bluish flesh below basally | blackish

12337 ✓ *Sicalis pelzelni* ♂ 142  
brown | blackish brown, bluish flesh below | brown

12338 ✓ " " " " ♀ 136  
— | —, flesh below basally | —

12339 ✓ *Dyctiopicus lignarius puncticeps* ♂ 181  
brown | black, pale brown below basally

\* 12340 ✓ *Veniliornis olivinus frontalis* ♂ 180  
brown | black, pink flesh below | leaden brown

24-12

24-12

X

[54]

12341 ✓ *Veniliornis olivinus frontalis*  
(see no. 12340)

♂ 185

12342 ✓ *Turdus rufigiventris*

♀ 244

brown | olive yellow, black at base of max.

12343 ✓ " " "

♂ 239

La Merced, July 31

I got out late today, was fixing my .410 shotgun until near 10 AM. Worked in huerta, chacra etc. between road & river.

Birds moved up right branch of stream. Birds very scarce now & wild.

12344 ✓ *Mimus dorsalis*

♀ 242

pale hazel | black, pale brown at base below | black.

12345 ✓ " " "

♀ 254

12346 ✓ *Chlorostilbon auriceps*

♂ 96

pink flesh, top black | black.

12347 ✓ *Leucippus chionogaster*

♂ 116

black, basal 1/2 below | black.

12348 ✓ *Euscarthornis m. margaritaceiventris*

♂ 122

yellow | black, brown below | reddish brown

12349 ✓ " " "

♂ 120

12350 ✓ *Tanagra aurea serripennis*

♂ 113

brown | black, leaden blue below | leaden

12351 ✓ " " "

♀ 111

12352 ✓ *Soblegatus m. modestus*

♂ 162

brown | black | black.

24-12

24-12

+

12353 ✓ *Coryphospingus cucullatus* ♂ 146  
brown | black, bluish flush below | black

12354 ✓ " " ♀ 148

\*\* 12355 ✓ *Diglossa s. sittaoides* ♂ 131  
brown | black, flush at base brown

12356 ✓ *Piranga flava flava* ♂ 192  
brown | black; base blue below | dark brown

12357 ✓ *Saltator <sup>bolivianus</sup> cyaniventris* ♂ 218  
brown | orange | leaden brown

12358 ✓ *Phoebastria aureiventris* ♂ 211  
brown | black, bluish flush below | leaden brown

12359 ✓ *Peospiza hypochondriaca* ♀ 166  
brown | black, bluish flush below | black

12360 ✓ *Phytotoma rutilus angustirostris* ♀ 190  
orange | blackish brown, yellowish flush below | orange | dark brown

12361 ✓ *Sicalis pelzelni* ♂ 142  
brown | blackish brown, bluish flush below | dark brown

12362 ✓ " " ♂ 137

12363 ✓ " " juv ♂ 139

12364 ✓ " " juv ♂ 137

25-13

25-13

X

[55]

La Merced, Aug 1.

I went far up main stream, about 4 miles. Birds very scarce & few to be seen that we need. Birds went far down the valley with same result. This prevents the shooting here. day very hot.

12365<sup>✓</sup> *Meerocerculus l. leucophrys* ♂ 142  
brown | black | black

12366<sup>✓</sup> " " " ♀ 131

12367<sup>✓</sup> *Arremon flavirostris d'orbignyii* ♂ 162  
brown | yellow, ridge black | pale horn

12368<sup>✓</sup> *Thamophilus ruficapillus cohabambae* ♂ 173  
red-brown | black, lozen below mesially | lozen

12369<sup>✓</sup> *Poospiza whitii* ♂ 143  
brown | black, flush below basally | blackish horn

12370<sup>✓</sup> " " " (?) 145

12371<sup>✓</sup> " " " imm ♂ 144

12372<sup>✓</sup> *Pipraeidae melanota venez.* ♂ 153  
brown | blackish bluish flush below | lozen horn

12373<sup>✓</sup> *Poospiza boliviana* ♂ 160  
brown | black, bluish flush below | pale horn

12374<sup>✓</sup> *Catamenia a. analis* ♂ 137  
brown | yellow, tip of culmen dusky | blackish

12375<sup>✓</sup> " " " ♂ 138

25-13

25-13

12376 ✓ *Piranga flava flava* ♂ 192  
brown blackish, tan blue below below tan

12377 ✓ *Phacellodomus striaticeps maculipectus* ♀ 184  
brown black, below blue below pale tan

12378 ✓ *Turdus rufiventris* ♂ 268  
brown olive yellow, base of culmen dusky/pale horn

12379 ✓ " " ♂ 255

25-13

|               | <u>SKINS</u> | <u>Total Species</u> | <u>Not previously taken</u> | <u>Number</u> |
|---------------|--------------|----------------------|-----------------------------|---------------|
| San Lorenzo = | 940          | 144                  | 102                         | 13            |
| La Merced =   | <u>164</u>   | <u>25</u>            | <u>13</u>                   | <u>0</u>      |
|               | 1104         | 169                  | 115                         | 13            |

Total of 56 species taken at La Merced.

X

[56]

Monte Bello, Aug. 7

Berto ill this morning with the Grippe. I went out alone a short distance up the trail. Birds abundant. Morning very cold, Frost last night. I went out about 8<sup>15</sup> as I had to pay off & dispatch the mule driver & guide got back before 11.

- \*\*  
12380<sup>✓</sup> *Xanthomyias s. sclateri* ♀ 138  
brown | black, flesh below, tip dusky | leaden black
- \*\*  
12381<sup>✓</sup> *Capsiempis f. flaveola* ♀ 125  
brown | black, flesh below variably | leaden
- 12382<sup>✓</sup> " " " (T.E.) ♂ 132
- 12383<sup>✓</sup> " " " ♀ 119
- 12384<sup>✓</sup> " " " (T.E.) ♂ 131
- \*  
12385<sup>✓</sup> *Basileuterus b. bivittatus* ♂ 154  
brown | black, | yellowish brown
- \*  
12386<sup>✓</sup> *Thlypopsis s. sordida* ♀ 149  
brown | black, bluish flesh below | leaden blue
- \*\*  
12387<sup>✓</sup> *Chlorospingus ophthalmicus argentatus* ♂ 148  
brown | black, dark brown below | bluish brown
- 12388<sup>✓</sup> " " " ♀ 140
- \*  
12389<sup>✓</sup> *Myiarchus tyrannulus chloropiscus* ♀ 202  
brown | black, pale at extreme base below | black
- \*\*  
12390<sup>✓</sup> *Xenops utuilans connectens* T.E. ♂ 138  
brown | black, flesh below, tip black | leaden

7-4

X

- \*\* 12391<sup>↓</sup> *Syndactyla rufosuperciliatus obovatus* ♀ 184  
brown | black, flesh below | olive
- 12392<sup>↓</sup> " " " " ♂ 183
- 12393<sup>↓</sup> " " " " ♂ 183
- 12394<sup>↓</sup> " " " " ♀ 184
- 12395<sup>↓</sup> *Lepicolaptes angustirostris hellmayri* ♀ 228  
brown | flesh, base of max. blackish on sides | olive leaden
- 12396<sup>↓</sup> *Veniliornis olivinus frontalis* ♂ 188  
brown | black, pale base below basally | leaden
- 12397<sup>↓</sup> " " " " ♂ 182
- 12398<sup>↓</sup> " " " " ♀ 183
- \*\* 12399<sup>↓</sup> *Trogonurus variegatus behni* ♀ 274  
brown | black, base blue below | leaden

Monte Bello, Aug 8.

Bests still bad today. I finished all but 3 of yesterday's birds last night & wrote skinned one woodpecker this morning. I went out at 8 AM. "Surreys" again today. Back at 11<sup>15</sup> with birds.

- \*\* 12400<sup>↓</sup> *Synallaxis scutata whitii* ♂ 161  
red brown | black, leaden blue below | brownish olive
- 12401<sup>↓</sup> " " " " ♀ 153
- 12402<sup>↓</sup> *Syndactyla rufosuperciliatus* ♂ 187  
brown | black, flesh below | olive

10-6



10-6

x

[57]

\*\*

12403 ✓ *Elania o. obscura*

♀ 190

brown | blackish brown, pluck below | black

12404 ✓ *Thraupis sayaca*

♀ 180

brown | leaden blue, tip of max. black | leaden

\*\*

12405 ✓ *Turdus migriceps*

♂ 212

brown | yellow | brownish yellow  
+

12406 ✓ *Turdus rutiventer*

♀ 257

brown | yellowish olive, base of max. blackish | brown brown

12407 ✓ *Chlorocerypes leucogaster tucumanus*

♂ 245

brown | black | leaden

\*

12408 ✓ *Xiphocolaptes major castaneus*

(M) ♀ 348

brown | brown blue, tip black | blue

12409 ✓

" " " "

♀ 350

\*

12410 ✓ *Pyrrhura m. melinae*

♂ 278

brown | black, base below dark brown | black

12411 ✓

" " "

♀ 280

12412 ✓

" " "

♂ 271

\*\*

12413 ✓ *Ara auricollis*

♂ 441

red | black, tip pale brown | dusky, feet.

15-9

15.9

x

Monte Bellos, Aug 9.

Began drizzling rain early today & kept up till about 10 AM. Birds not well enough to go out. I got up at 6:30. Made dough traps. & even shooting about 8. Monte very wet & temperature about 47° at noon still cloudy but no rain.

12414<sup>✓</sup> *Arremon. flavirostris* or *bignii* ♂ 168

brown, yellow, ridge of culmen black, pale from

12415<sup>✓</sup> " " " ♀ 156

\* 12416<sup>✓</sup> *Euscothecinus plumbeiceps* midiceps ♀ 101  
red-brown black leaden

\*\* 12417<sup>✓</sup> *Talmonyras s. sulphureceus* ♀ 153  
brown black, flesh below leaden blue

12418<sup>✓</sup> " " " ♂ 158

\* 12419<sup>✓</sup> *Leptopogon a. amarecephalus* ♀ 146  
brown black, throat & base below flesh leaden blue

12420<sup>✓</sup> *Synallaxis scotata whitii* ♀ 149  
red-brown black, horn blue below yellowish flesh

12421<sup>✓</sup> " " " ♂ 157

12422<sup>✓</sup> *Basileuterus b. bivittatus* (?) 156  
brown black, brownish yellow

\*\* 12423<sup>✓</sup> *Sittasomus g. griseicapillus* (?) ♀ 123  
brown blackish, leaden below leaden

12424<sup>✓</sup> " " " ♀ 163

19-11

19-11

+

[58]

12425 ✓ *Syndactyla rufosuperciliatus oleagineus* ♀ 183  
brown | black, flesh brown | olive

12426 ✓ *Thraupis sayaca* ♀ 178  
brown | leaden blue, tip of culmen black | leaden blue

\*\* (?)

12427 ✓ *Saltator aurantirostris tilcarae* ♂ 210  
brown | orange yellow | leaden brown

12428 ✓ *Turdus nigricaps* im ♂ 216  
brown | dusky yellow, nostrils black above | yellowish brown

12429 ✓ " *rotiventer* ♂ 258  
brown | olive yellow | pale brown

+

12430 ✓ *Pheucticus arietensis* ♂ 217  
brown | black, slender below | leaden brown

\* 12431 ✓ *Cyanocorax c. chrysops* ♀ 370  
yellow | black | black

12432 ✓ " " " ♀ 372

\* 12433 ✓ *Crypturellus tataupa* (M) ♂ 268  
brown | salmon red | purplish red

12434 ✓ " " " (M) ♂ 270

\*\* 12435 ✓ *Knipolegus cabanisi* ♂ 165  
brown | brownish black, bluish flesh below | black

23-13

23-13

+

Monte Bello, Aug 10.

I shot up the valley towards Trapiche. Birds & game abundant. I shot monkey, agouti & Tinamus. Also killed another species of monkey (big but lost it.) Birds went out for first time today, down trail. He shot Ara, Kingfisher & some small birds.

12436 ↓ *Ara aureicollis* ♀ 425  
red \ black, flesh at tip of culmen & medially below \ flesh.

12437 ↓ *Streptocoryle t. torquata* (O.E.) ♀ 442  
brown \ black, dull yellowish below & on sides, barely \ dirty yellow

12438 ↓ *Crypturellus t. tatoupa* ♀ 275  
brown \ pink salmon \ purplish red

12439 ↓ *Xiphocolaptes major castaneus* ♂ 348  
brown \ pale bluish horn, tip black \ olive

12440 ↓ *Chloronotus rubiginosus tucumanus* (O.E.) ♀ 240  
brown \ black \ leaden

\* 12441 ↓ *Ramphastos toco* ♂ 622  
dark yellowish \ vermilion, culmen yellow on sides, black at tip \ callosity blue.

12442 ↓ " " ♀ 594

[184] ↓ " Agouti " 562 - 23 - 130 - 33 - ♀

[185] ↓ *Cebus* 663 - 350 - 105 - 32 - ♂

12445 ↓ *Euscarthmornis plumbeiceps viridiceps* ♀ 106  
brown \ black, Tarsus pale \ leaden horn

24-13

24-13

+

[59]

\*\*

12446 ✓ *Atelodacnis analis* ♂ 121

brown | black, tawny + band, horn blue | leaden

12447 ✓ " " ♂ 120

12448 ✓ " " ♀ 116

12449 ✓ " " ♀ 118

\*\*

12450 ✓ *Poliaptila d. dunicola* (♀) 126

brown | black, leaden below | leaden

12451 ✓ *Chlorospingus ophthalmicus argentinus* ♂ 147

brown | black, pale below | leaden

12452 ✓ *Pipraeidea melanonota ven.* ♂ 156

red | black, leaden below | blackish horn

12453 ✓ *Synalaxis scutata whitii* ♂ 160

brown | black, horn blue below | dull yellowish

12454 ✓ " " " ♀ 156

12455 ✓ *Suiriri suiriri* ♀ 148

brown | black | black

12456 ✓ " " " ♂ 158

##

12457 ✓ *Arremon flavirostris cibiquii* ♂ 169

brown | yellow, ridge of culmen black | pale horn

12458 ✓ *Syndactyla rufosuperciliaris deagineus* ♂ 185

brown | black, flesh below | olive

12459 ✓ *Basileuterus b. bivittatus* ♂ 153

brown | black | yellowish brown

26-15

26-15

+

12460<sup>✓</sup> *Sittasomus g. griseicapillus* ♀ 159  
brown | black, brown blue below | leaden

12461<sup>✓</sup> *Xerops rutilis connectens* ♀ 130  
brown | black, flake below, top black | leaden

12462<sup>✓</sup> *Cyclanthus gujanensis cearensis* ♂ 173  
yellow | brown brown, leaden blue below basally | black brown

12463<sup>✓</sup> *Phoebastria auriventris* ♀ 208  
brown | black, yellowish flake below | blackish brown

12464<sup>✓</sup> *Veniliornis olivinus frontalis* ♀ 182  
brown | black, brown blue below basally | leaden

12465<sup>✓</sup> *Picumnus o'rbignyus* ♂ 106  
brown | black, brown blue below basally | leaden

12466<sup>✓</sup> *Xanthomyias sclateri* - ♂ 134  
brown | black, flake below basally | leaden

Monte Bella, Aug. 11.

I stayed in to skin agents & Monkey. Berto went out & shot all birds, going below & then into hills to north. Fog this morning until about 9:30 then cleared off. Very cold last night. Freeze ice in wash basin out in yard. Rabbit shot at night with headlight

\*\*  
12467<sup>✓</sup> *Scapanus leucopogon* ♂ 382  
yellow | old ivory | olive

12468<sup>✓</sup> " " ♀ 352

27-16

27-16

X

CO

12469 ✓ *Leptopogon amaurocephalus* ♂ 153  
brown/black, flesh below (basally) leaden

12470 ✓ *Synallaxis scutata whitii* ♀ 152  
red-brown/black, flesh at base below pale yellowish olive

12471 ✓ *Thlypopsis sordida* (?) ♂ 154  
brown/black, flesh below leaden

12472 ✓ *Chlorospingus ophthalmicus argentinus* ♂ 154  
brown/black, paler below leaden blue

12473 ✓ " " " " ♂ 152

12474 ✓ *Syndactyla rufosuperciliaris oleagineus* ♂ 188  
brown/black, flesh below olive

12475 ✓ " " " " ♂ 185

12476 ✓ *Veniliornis olivinus frontalis* ♂ 182  
brown/black, bluish flesh below leaden

12477 ✓ " " " " ♀ 180

\* 12478 ✓ *Catharus dryas maculatus* ♂ 181  
brown/eyelid & bill salmon red, culmen dusky (basally) orange red

12479 ✓ *Turdus nigricops* ♂ 222  
brown/yellow, mottled with blackish yellowish brown

12480 ✓ " *rufiventris* ♂ 252  
brown/olive yellow, dusky at base of culmen pale brown

\* 12481 ✓ *Turdus s. serranus* ♂ 277  
brown/eyelid & bill orange red / orange yellow

12482 ✓ " " " " ♂ 282

29-16 — blackish brown, paler below very dark brown

29-16

+

12483 *Lepidocolaptes angustirostris striaticeps* ♂ 233  
brown / flesh, sides of culmen blackish basally / leaden

12484 *Lepus* \_\_\_\_\_ sp. 350-20-80-72 ♀

Monte Beltr, Aug 12.

Heavy frost + ice this morning. Both went shooting, I went up river, first going back into hills, but found nothing, then came down to river flats. Birds worked down stream along trail by which we entered here. Fog in early morning, but by 7:30 had cleared away.

12485 *Capsiempis flavoita* ♀ 121  
brown / black, flesh below basally / leaden

12486 *Euscarthmopsis plumbeiceps viridiceps* ♂ 110  
brown / black / leaden

12487 " " " ♀ 113

12488 *Sittasomus g. griseiceps* ♀ 163  
brown / black, some blue below / leaden

12489 *Poospiza melanoleuca* ♀ 133  
brown / black, pale tan below basally / black

12490 *Basileuterus b. bivittatus* ♂ 152  
brown / black / brownish yellow

12491 *Chlorospingus ophthalmicus argentinus* ♂ 152  
brown / black / leaden hair

\*\* #  
12492 *Thamnophilus caeruleuscinus dinellii* ♂ 170  
30-17  
brown / black, leaden below / leaden blue



- 12493<sup>✓</sup> *Arremon flavirostris orbignyii* ♂ 170  
brown | yellow, ridge black | pale bluish brown
- 12494<sup>✓</sup> *Syndactyla rotoperciliaris oleagineus* ♂ 185  
brown | black, flesh below | olive
- 12495<sup>✓</sup> " " " " ♂ 180
- 12496<sup>✓</sup> *Piranga flava flava* ♂ 201  
brown | black, leaden blue below | blackish brown
- 12497<sup>✓</sup> " " " " ♀ 191
- \*\* 12498<sup>✓</sup> *Cyanocampsa cyanea argentina* ♂ 183  
brown | black, pale brown below | blackish brown
- 12499<sup>✓</sup> " " " " ♀ 180
- 12500<sup>✓</sup> *Turdus nigricaps* ♂ 220  
brown | dusky yellow, base of culmen blackish | dusky yellow
- 12501<sup>✓</sup> " " " " ♂ 215
- 12502<sup>✓</sup> " " " " ♀ 222  
— | black, tip of culmen yellow | —
- 12503<sup>✓</sup> *Turdus serranus* ♂ 223  
brown | salmon red | brownish yellow
- 12504<sup>✓</sup> " " " " ♂ 228  
— | orange red | blackish in front, yellow behind
- 12505<sup>✓</sup> " " " " ♀ 271  
— | black | brownish yellow
- 12506<sup>✓</sup> *Leistes militaris superciliaris* ♂ 184  
brown | blackish, flesh below | blackish brown
- 12507<sup>✓</sup> *Pheucticus a. auranteiventris* ♀ 219  
brown | black, brown blue below | leaden

- 12508<sup>↓</sup> *Pyrrhura m. molinae* ♀ 260  
brown \ black, pale tan below locally \ blackish
- 12509<sup>↓</sup> " " ♀ 264
- 12510<sup>↓</sup> *Xiphocolaptes major castaneus* ♂ 357  
brown \ pale bluish tan, tip black \ olive
- 12511<sup>↓</sup> *Crypturellus t. tataupa* ♂ 270  
brown \ pinkish red \ purplish red
- 12512<sup>↓</sup> *Scapanus leucopogon* ♀ 370  
yellow \ old iron \ leaden
- \*\*  
12513<sup>↓</sup> *Pionus bridgesi* ♀ 302  
brown \ black, yellow below mainly \ dusky leaden
- 12514<sup>↓</sup> " " ♂ 320
- 12515<sup>↓</sup> " " ♂ 312
- 12516<sup>↓</sup> *Ramphastos toco* ♂ 630  
dusky yellow \ scarlet, red, & mag yellow, tip black \ white blue
- [186]  
12517<sup>↓</sup> *Cebus* (Monkey) 787-405-118-38- ♀

Monte Bello, Aug 13.

Not so cold last night, about 36° only. Morning cloudy, but cleared off at 1 P.M. Both went out. Scanned in at 10<sup>30</sup> to skin monkey etc. Bird not in till 11<sup>20</sup>, but with only 12 birds.

- 12518<sup>↓</sup> *Capsiampis flaveola* ♂ 123  
brown \ black, flesh at tan below \ leaden

- 12519 ✓ *Mecocerculus leucophrys* ♀ 134  
brown | black | black
- 12520 ✓ *Xanthorhynchus solateri* (?) 137  
brown | black, glub at base below | dark leaden
- 12521 ✓ *Heptopogon amaurocephalus* ♀ 148  
brown | black, pale at base below | leaden
- 12522 ✓ *Thamnophilus caerulescens dimelli* juv ♂ 170  
gray-brown | black, base blue below | leaden blue
- 12523 ✓ " " " ♂ 160
- 12524 ✓ " " " ♂ 172
- 12525 ✓ " " " ♀ 169
- 12526 ✓ *Basilaelurus b. bivillatus* ♂ 148  
brown | black | yellowish brown
- 12527 ✓ " " " ♀ 146
- 12528 ✓ *Thlypopsis sordidas* ♂ 149  
brown | leaden, darker above | leaden blue
- 12529 ✓ *Cyanocorypsa cyanea argentina* ♂ 176  
brown | black, pale base below | black
- 12530 ✓ " " " juv ♂ 177
- 12531 ✓ " " " ♀ 166
- 12532 ✓ " " " juv ♂ 181
- 12533 ✓ *Knipolegus cabanisi* ♂ 174  
brown | leaden blue, tip of culmen black | black

- 12534 ↓ *Chlorospingus ophthalmicus argentinus* ♂ 145  
brown black | leaden blue
- 12535 ↓ *Sittasomus griseicapillus* ♂ 172  
brown | black, leaden below | leaden black
- \*\*  
12536 ↓ *Scoptes p. pyrrhopterus* ♀ 197  
brown | black | leaden brown
- 12537 ↓ *Phoenicurus aureicapillus* ♀ 218  
brown | black, plus below | leaden brown
- 12538 ↓ *Xiphocolaptes major castaneus* ♀ 346  
brown | pale brown blue, top black | olive
- 12539 ↓ " " " " ♂ 338
- \*\*  
12540 ↓ *Accipiter guttifer* ♂ 372  
brown | black, base mand. brown blue yellow
- 12541 ↓ *Scapanus leucopogon* ♂ 372  
yellow | old ivory | leaden
- 12542 ↓ *Thiarpis sayaca* ♂ 185  
brown | black, leaden blue below | leaden blue

Monte Pello, Aug 14.

Last night Blunby & Monax arrived & we did not work; result a bunch of birds left. I stayed in today to organize our baggage etc. & work on yesterday's birds. Birds worked up river, in plain in hills.

- 12543 ↓ *Chlorospingus ophthalmicus argentinus* ♂ 145  
brown | black | leaden blue

12544 ✓ *Thamnophilus caerulescens dinellii* ♂ 165

brown | black, leaden blue below | leaden blue

12545 ✓ " " " " ♀ 160

12546 ✓ *Piranga flava flava* juv ♂ 192

brown | blackish, leaden blue below | blackish brown

12547 ✓ *Turdus nigricaps* ♂ 222

brown | yellow, streaked with dusky | brownish yellow

12548 ✓ " " " " ♀ 210

— | black, —

12549 ✓ " " " " ♀ 220

\*\* 12550 ✓ *Momotus momota pilcomajensis* (M) ♀ 347

red-brown | black, pale brown below | dusky brown

Note!! Today Berto shot 5 Penelope & they were picked & cooked by mistake

Monte Bello, Aug 15

I shot up valley to Casaverana & into hills above. Did not get back till 1 P.M. Berto worked down valley.

12551 ✓ *Capsiempis flaveola* ♀ 115

brown | black, pink below basally | leaden

12552 ✓ " " " " ♂ 131

12553 ✓ " " " " ♀ 122

\* 12554 ✓ *Catamenia obscura* ♀ 122

brown | black, yellow below | dusky brown

12555 ✓ *Chlorospingus ophthalmica argentinus* ♂ 143

brown | black, pale below basally | leaden blue

- 12556<sup>↓</sup> *Myiarchus tyrannulus chloroipiscius* ♀ 206  
brown | black | black.
- 12557<sup>↓</sup> *Thamnophilus caerulescens dinellii* ♂ 158  
brown | black, leaden blue below | leaden blue
- 12558<sup>↓</sup> *Leptopogon amaurocephalus* ♂ 144  
brown | black, black at base below | leaden
- \*\*  
12559<sup>↓</sup> *Buarremon borellii* ♂ 187  
brown | black | dark brown
- 12560<sup>↓</sup> " " ♂ 187
- 12561<sup>↓</sup> *Elaenia obscura* ♂ 189  
brown | brownish brown, black ~~black~~ below | black
- 12562<sup>↓</sup> *Myiotheretes striaticollis* ♀ 232  
brown | black | black.
- 12563<sup>↓</sup> *Phyrhura m. molinae* ♀ 262  
brown | black, pale brown at base below | blackish
- 12564<sup>↓</sup> *Crypturellus tataupa* ♀ 273  
brown | bright pink | purplish red
- 12565<sup>↓</sup> " " ♂ 279
- 12566<sup>↓</sup> " " ♀ 278
- 12567<sup>↓</sup> *Pionus bridgesi* ♀ 285  
brown | black, tip of max. + mand. yellow | dirty blackish
- \*  
12568<sup>↓</sup> *Oreopelia frenata* ♀ 320  
yellow | black | purplish red

- \*\*  
12569 ✓ *Asturina nitida pallida* ♀ 587  
straw black, horn blue below basally \ pale calvarium red
- \*\*  
12570 ✓ *Hypomorphnus u. urubitinga* ♂ 666  
brown \ black, pale horn blue below basally \ yellow
- \*\*  
12571 ✓ *Penelope obscura bridgesi* (O.E.) ♀ 865  
brown \ black \ dorsal red \ blackish horn
- 12572 ✓ " " " " (O.S.E.) ♀ 855

Monte Bello, Aug 16 (Sunday)

We finished skimming the big stuff from yesterday, getting through about 1 PM. Had a bath & wrote about 101 labels.

(Labels written to here)

Monte Bello, Aug 17.

Bert went out till 10 o'clock, while I stayed in to finish labels & start labelling & packing birds.

- [187]<sup>5</sup> ✓  
12573. *Cebus* (Monkey) 788-367-118-35 - ♂
- 12574 ✓ *Ara auricollis* ♂ 448  
red \ black, tip pale horn \ dusky pluck
- 12575 ✓ " " ♀ 424
- 12576 ✓ *Rhamphastos toco* ♀ 583  
greenish yellow \ vermilion, sides of calvarium yellow, tip black \ cobalt blue
- \*  
12577 ✓ *Buteo nattereri* ♀ 423  
brown \ leaden blue basally, black apically \ yellow
- 12578 ✓ *Xenops rutilans connectens* ♀ 137  
brown \ black, blackish pluck below \ leaden black

42-26

+

- 12579 ✓ Chlorospingus ophthalmicus argentinus ♂ 151  
brown | black | leaden blue
- 12580 ✓ Syndactyla rufosopercularis oleag. — ♂ 179  
brown | black, flesh below | blue
- 12581 ✓ " " " " ♂ 185
- 12582 ✓ Pheucticus aureiventris ♂ 217  
brown | black, leaden blue below | leaden
- 12583 ✓ Turdos nigricops ♂ 216  
brown | yellow | yellow

Monte Belis, Aug 18.

Birds stayed in today to label & wrap birds. I went far up river above cane fields, but found birds very scarce, but got covered with small ticks.

Back at 1 P.M.

- 12584 ✓ Ara auricularis ♂ 442  
red | black, tip pale brown | flesh
- 12585 ✓ Trogonurus variegatus behni ♂ 280  
brown | pale bluish flesh | leaden
- 12586 ✓ Cyanocorax c. chrysops ♀ 360  
yellow | black | black
- 12587 ✓ " " " ♂ 365
- 12588 ✓ " " " ♀ 375
- 12589 ✓ " " " ♂ 370

42-27



42-27

+

[65]

12590 ✓ *Comothlypis p. pitiaeyemi* ♂ 115  
brown | black, yellow below | yellowish brown

12591 ✓ *Xenops rutilans connectens* ♂ 134  
brown | black, flesh below | leaden olive

12592 ✓ *Picumnus orbignyans* ♂ 107  
brown | black, leaden blue below + at base of max. | leaden

12593 ✓ *Veniliornis olivinus frontalis* ♀ 180  
brown | black, pale horn below | leaden

12594 ✓ *Turdus nigriceps* ♀ 219  
brown | black | yellowish brown.

Monte Bella, Aug. 19

We both went shooting this morning. No frost last night + weather getting quite hot now. Day clear.

12595 ✓ *Turdus rufiventer* ♂ 257  
brown | olive yellow | pale horn.

\*\* 12596 ✓ *Leptoptila chlorocephala* ♀ 292  
yellow | black | pinkish black

12597 ✓ *Picumnus orbignyans* ♂ 111  
brown | black, bluish flesh below | leaden

12598 ✓ *Capsiempis flavola* ♀ 123  
brown | black, flesh below basally | leaden blue

12599 ✓ *Xanthomyias solator* ♀ 127  
brown | black, flesh below, hp black | leaden

42-27

42-27

+

- 12600 ✓ *Basileuterus bivittatus* ♀ 148  
brown | black | yellowish brown
- 12601 ✓ *Synallaxis scutata whitii* ♂ 145  
brown | black, pale horn below basally | olive horn
- 12602 ✓ *Arremon flavirostris orbignyianus* ♂ 168  
brown | yellow, ridged culmen black | bluish horn
- 12603 ✓ " " " ♀ 162
- 12604 ✓ *Chlorospingus ophthalmicus argentinus* ♂ 146  
brown | black | leaden blue
- 12605 ✓ " " " ♀ 139
- 12606 ✓ *Cyanocopsa cyanea argentina* ♂ imm 178  
brown | black, dusky, flesh below basally | blackish horn
- 12607 ✓ " " " ♂ imm 179
- 12608 ✓ *Turdus nigriceps* ♀ 218  
brown | blackish | yellowish brown
- 12609 ✓ " " ♀ 222
- 12610 ✓ *Xenops rutilans connectens* ♂ 132  
brown | black, flesh below | leaden
- 12611 ✓ *Tolmomyias s. sulphurescens* ♀ 162  
brown | black, flesh below | leaden blue
- 12612 ✓ *Thamnophilus caerulescens dinellii* ♀ 166  
brown | black, leaden blue below | leaden blue
- 12613 ✓ *Myiarchus tyrannulus chloropiscius* (M) ♀ 202  
brown | black | black

42-27

42-27

T

[66]

12614 ✓ *Cyclarhis gujanensis cearensis* ♂ 169  
yellow | brown horn, lozen blue below basally | leaden blue

12615 ✓ *Chloroneryx rubiginosus tucumanus* ♀ 230  
brown | black | leaden

12616 ✓ *Xiphocolaptes major castaneus* ♀ 340  
brown | bluish flesh, tip black | olive

Monte Bello, Aug 20

I went up to old sweetpotato patch early this morning, shot an *Agouti* & came in to skin it & get traps ready to set this evening. But it is shooting today.

<sup>5</sup>  
[188] ✓  
12617 *Agouti* 572-37-135-45-♂

12618 ✓ *Picumnus orbignyans* ♂ 101  
brown | black, bluish flesh below | olive leaden

12619 ✓ " " ♂ 109

12620 ✓ *Cranioleuca pyrrhopis striaticeps* ♂ 157  
brown | black, flesh below | olive

12621 ✓ " " " ♀ 153

12622 ✓ *Pipraeida melanota* ♂ 157  
brown | black, leaden blue below | blackish horn

12623 ✓ *Knipolegus cabanisi* ♂ 182  
brown | leaden blue, tip blackish | black

12624 ✓ *Rheucticus aureiventris* ♀ 222  
brown | black, leaden blue below | leaden blue

42-27

- 12625 ✓ *Turdus serranus* ♀ 277  
brown \ black \ dark brown
- 12626 ✓ *Xiphocolaptes major castaneus* (M) ♀ 310  
brown \ pale brown blue, tip black \ olive
- 12627 ✓ *Cyanocorax c. chrysops* (M) ♀ 366  
yellow \ black \ black

Mounts Bello, Aug 21.

We both swaked down the valley & up the Rio Tiquito. Weather warm & clear but very hazy, just like Indian Summers.

- 12628 ✓ *Scapanus leucopogon* ♀ 355  
yellow \ old ivory \ leaden
- 12629 ✓ " " ♂ 320
- 12630 ✓ *Chlorostilbon a-v. aureo-ventris* ♀ ♀ 93  
black, pink below \ black.
- \*\* 12631 ✓ *Phaethornis pretii* ♀ 155  
black, crimson below, tip black \ pink.
- \* 12632 ✓ *Serpophaga munda* ♂ 109  
brown \ black \ black
- \*\* 12633 ✓ *Elaenia caniceps* ♂ 137  
brown \ black \ black
- 12634 ✓ *Xanthomyias sclateri* ♀ 135  
brown \ black, pink at base below \ leaden black

45-29

\*

[67]

\* 12635 ✓ *Synallaxis a. albescens* (M) ♀ 151  
brown | black, yellowish flesh below | olive

12636 ✓ *Synallaxis scutata whiteii* ♀ 148  
brown | black, horn blue below | pale yellowish flesh

12637 ✓ *Xenops rutilans connectens* ♀ 134  
brown | black, flesh below | leaden

12638 ✓ *Thamnophilus caerulescens dinellii* ♂ 158  
brown | black, leaden blue below | leaden blue

12639 ✓ " " " " ♂ 160

12640 ✓ " " " " ♂ 165

12641 ✓ *Aixeron flavirostris orbignyana* ♂ 165  
brown | yellow, ridge black | bluish flesh

12642 ✓ " " " " ♂ 170  
— | — | — | pale blue below

12643 ✓ *Sittasomus g. griseicapillus* ♀ 165  
brown | blackish, leaden blue below | leaden

12644 ✓ *Sayornis nigricans latirostris* ♀ 192  
brown | black | black

12645 ✓ *Knipolegus cabanisi* ♂ 175  
brown | leaden blue, tip of culmen black | black

12646 ✓ *Knipolegus a. aterrimus* ♀ 175

\*\* 12647 ✓ *Batara cinerea* ♀ 338  
brown | leaden blue, ridge black | leaden blue

47-39

- 12648 ✓ *Picumnus orbignyianus* ♀ 109  
brown | black, pale bluish horn below | olive leaden
- 12649 ✓ *Cyanocompsa caerulea argentina* ♂ 181  
brown | black, pale horn at base below | blackish
- 12650 ✓ " " ♀ 174
- \*\* 12651 ✓ *Pachyramphus viridis* ♂ 164  
brown | leaden blue, top of culmen black | leaden blue
- 12652 ✓ *Myiarchus tyrannulus* ♂ 211  
brown | black, black
- \*\* 12653 ✓ *Zenotrichia capensis hypoleuca* ♂ 158  
brown | blackish horn, pale at base below | dull horn
- 12654 ✓ *Cyclorhis gujanensis cearenis* ♂ 173  
yellow | brown horn, leaden blue below basally | leaden blue
- duplicated.  
12654 ~~*Lepidocolaptes angustirostris*~~ ♂ 221  
Transferred to No. 12692  
brown | bluish black, dusky at base above | olive leaden
- 12655 ✓ *Veniliornis olivinus frontalis* ♀ 183  
brown | black, pale bluish horn below | leaden
- 12656 ✓ *Momotus momota pilcomayensis* ♀ 440  
red | black | dark horn
- 12657 ✓ " " " ♂ 460
- 12658 ✓ *Trogonurus variegatus behri* ♂ 282  
brown | pale bluish horn | leaden
- 12659 ✓ *Accipiter guthriei* ♂ 380  
yellow | black, leaden blue below basally | yellow

49-32

Monte Bello, Aug 22

+

Frost again last night, day clear + cooler. Phis bad.

[189] ✓

[68]

12660 Deer

928-102 (ear) 110

♀ (M)

height at shoulder = 22 3/4"

circ. chest = 21 3/4"

" flank. = 20 1/4"

" neck (front) = 9 3/4"

12661 ✓ *Satrapa icterophrys*

♂ 174

brown | black | black

\* 12662 ✓ *Adelomyia inornata*

♀ 94

black | dark brown

12663 ✓ *Atelodacnis analis*

♂ 121

brown | leaden blue, ridge black | leaden blue

12664 ✓ " "

♀ 114

12665 ✓ *Compsothlypis p. pitiajumi*

♀ 112

brown | black, yellow below | brownish yellow

12666 ✓ *Mecocerculus l. leucophrys*

♂ 141

brown | black | black

12667 ✓ *Xanthomyias sclateri*

♂ 126

brown | black; black below | leaden black

\* 12668 ✓ *Hemithraupis g. guirava*

♂ 138

brown | yellow, ridge black | leaden

12669 ✓ " " "

♂ 137

12670 ✓ " " "

imm ♂ 141

12671 ✓ " " "

imm ♂ 141

12672 ✓ " " "

imm ♂ 135

51-32

- 12673 ✓ *Knipologus cabanisi* ♀ 160  
brown/black, flesh below/black
- 12674 ✓ " " juv. ♂ 162
- 12675 ✓ *Knipologus a. aterrimus* ♀ 170  
brown/black, leaden at base below
- 12676 ✓ *Pachyramphus viridis* ♀ 154  
brown/black, leaden blue below/leaden blue
- 12677 ✓ *Cyclarhis gujanensis cearensis* ♂ 171  
yellow/brown brown, leaden blue at base below/leaden blue
- [190]<sup>S</sup> ✓ 12678 *Penelope*<sup>up pale</sup> min ♂ 845  
red/black/blackish brown

Monte Bello, Aug 23 (Sunday)

No shooting today, did odd ranch & rested.

Monte Bello, Aug 24

Crossed river this morning & worked carefully for 2 hours in reentrero & some tangled monte. Trying to find the big ant track. Finally secured me, saw no others. Berto went up Lipcito, but birds very scarce.

- 12679 ✓ *Euscarthmornis plumbeiceps viridiceps* ♂ 108  
brown/black/leaden blue
- 12680 ✓ " " " ♀ 107
- 12681 ✓ *Tanagra aurea serrirostris* ♂ 112  
brown/black, leaden blue below/leaden



- 12682 ✓ *Tolmomyias s. sulphureus* ♀ 150  
gray-brown | black, flesh below | leaden blue
- 12683 ✓ *Thamnophilus caeruleus dinellii* ♀ 160  
brown | black, leaden blue below | leaden blue.
- 12684 ✓ *Knipolegus cabanasi* ♀ 158  
brown | blackish, flesh below | black
- 12685 ✓ *Icterus p. pyrrhopterus* ♂ 200  
brown | black | dark brown
- 12686 ✓ *Cyanocompsa cyanea argentina* ♂ 174  
brown | black, pale brown below (nearly) | blackish
- 12687 ✓ " " " " juv. ♂ 172
- 12688 ✓ *Batara cinerea* (No. 12647) ♀ 332  
brown | pale leaden blue | ridge black | pale leaden blue
- 12689 ✓ *Turdus sennensis* ♂ 268  
brown | orange red | dusky orange
- 12690 ✓ " " " " ♀ 279  
— | blackish | brownish yellow

— labels written to here —

Monte Bello, Aug. 25.

I went out with Joe & his dogs after big game, but we got nothing. Found where a jaguar slept yesterday & 2 dogs took trail & failed to return. We came in at noon. Bertr went scoping with an Indian boy & got back at 1 P.M. with got lot of fish & about 6 species. I wrote up labels in afternoon.

- 12691 ✓ *Trogonurus variegatus behni* ♀

51-32] brown | leaden blue, ridge of culmen black | leaden

12692 ✓ *Lepidocolaptes angustirostris* ——— ♂ 221  
brown | black flesh, dusky at base above | olive leaden

(alcohol)

12693 ✓ Leaf nosed Bat.

12694 ✓ " " "

12695 ✓ " " "

12696 ✓ " " "

12697 ✓ " " "

12698 ✓ " " "

12699 ✓ " " "

12700 ✓ " " "

12701 ✓ " " "

{ Bats shot in store at  
night, came in probably to  
eat ripe platanos.  
all placed in alcohol.

Monte Bella, Aug 26.

I went up river about 5 miles looking for pack  
mules, & shot 7 birds on way. Caught 3 rats  
in traps set last night out at edge of brush.

Berto waited for Joe Pedro, who did not come, then  
went out shooting. I returned at 12:30.

12702 ✓ Long Tailed Bush Wren. 225-125-26-16 - ♀

12703 ✓ " " " " " 238-150-27-18 - ♀

12704 ✓ Short Tailed Bush Wren. 204-85-25-19. ♂

12705 ✓ *Serpophaga munda* ♂ 117  
brown | black | black

12706 ✓ *Xanthomyias sclateri* ♀ 130  
brown | black, flesh at base below | leaden black

12707 ✓ *Xenops rutilans connectens* T.M.F. ♂ 131  
brown | black, flesh below | leaden

- 12708 ✓ *Knipolegus cobanisi* ♂ 173  
red-brown | leaden blue, tip black | black.
- 12709 ✓ *Cyanocorypsa cyanea argentina* ♀ 171  
brown | black, pale brown below at base | blackish brown.
- 12710 ✓ *Icterus p. pyrrhopterus* ♀ 202  
brown | black | leaden.
- 12711 ✓ " " " " ♂ 214
- 12712 ✓ *Turdus nigricaps* ♂ 217  
brown | yellow | pale yellowish
- 12713 ✓ *Chloroerythraea robiginosa tucumanus* ♂ 246  
brown | black | leaden
- 12714 ✓ *Momotus momota pilcomayensis* ♀ 415  
brazel | black, pale at base & tip below | pale brown
- 12715 ✓ *Trogonurus variegatus behni* ♂ 266  
brown | pale bluish brown | leaden
- 12716 ✓ " " " " (M) ♀ 280  
— | —, ridge black | —

Mosite Bello, Aug. 27.

Berti went missing. I caught 7 mice last night, but 2 were mutilated, one by ants & 1 eaten by some small carnivore. I stayed in the solder up fish can, to get mammal skins & skulls & skin mice. In afternoon went with Manuel up Rio Tiquito after mules.

- 12717 ✓ Short Tailed Mouse 198-87-27-19-♂

51-32

+

- 12718<sup>✓</sup> Long Tailed Wren 221-132-26-17-♂
- 12719<sup>✓</sup> " " " 237-145-26-17 $\frac{1}{2}$ -♀
- 12720<sup>✓</sup> " " " 252-149-28-18-♂
- 12721<sup>✓</sup> " " " 228-139-26-17-♂imm.
- 12722<sup>✓</sup> *Leucippus chionogaster* ♀ 114  
black, flesh below, top black | blackish
- 12723<sup>✓</sup> *Catamenia obscura* ♀ 119  
brown | black, flesh below | pale horn
- 12724<sup>✓</sup> *Thamnophilus caerulescens dinellii* ♀ 165  
brown | black, leaden blue below | leaden blue
- 12725<sup>✓</sup> *Knipolegus cabanisi* ♂ 175  
brown | leaden blue, tip of black | black.
- 12726<sup>✓</sup> *Myiarchus tyrannulus* ♂ 211  
brown | black | black.
- \*\*  
12727<sup>✓</sup> *Amazona aestiva xanthopteryx* ♀ 360  
Cheeks + top of head, + bend of wing yellow; forehead blue; edge of wing above bend scarlet; outer web of secondaries red; base of tail yellow, with red at apical end of yellow area.  
red orange | black (see black) | blackish horn ?
- 12728<sup>✓</sup> " " " " ♂ 326

52-33

Monte Bello, Aug 28

Got back late last night (7:30), secured 1 horse. Still lack 1 or 2. Set traps after supper by flashlight. Caught 1 Amazon yesterday P.M. in mouse trap & 2 more early this morning. Best of Wood shooting & I stayed in to skin 7 mice & 3 birds & to send my man up river for horse.

12729<sup>✓</sup> Long Tailed Mouse (white feet & belly) 222-133-26-17 - ♀  
(Peromyscus)

12730<sup>✓</sup> " " " ( " ) 221-135-25½-17½ - ♂

12731<sup>✓</sup> " " " ( " ) 215-131-26-17 - ♂

12732<sup>✓</sup> " " " (gray belly & feet) 218-132-27-17 - ♂

12733<sup>✓</sup> " " " ( " " ) 240-147-26-16½ - ♂

12734<sup>✓</sup> Short Tailed Mouse (Microtus) 186-82-26-18 - ♂

12735<sup>✓</sup> " " " ( " ) 185-86-27-19 - ♀

12736<sup>✓</sup> Arremon flavirostris orbignyi ♂ 172

brown | yellow, ridge black | pale bluish horn

12737<sup>✓</sup> " " " " ♀ 163

12738<sup>✓</sup> " " " " ♂ 171

\*\*

12739<sup>✓</sup> Amazona tucumana ♂ 330

Green; front red; feathers of body & wings all narrowly edged with black; primary coverts scarlet; tip of inner primary & 2ndaries blue; base of tail dark green (below), top yellowish green. red orange | ivory | dusky flesh.

53-34

+

- 12740 ✓ *Troglodytes musculus rex* ♂ 129  
brown/black, pink below barely, pale brown
- 12741 ✓ " " " ♀ 128
- 12742 ✓ *Thlypopsis sordidus* ♀ 145  
brown/black, leaden blue below, leaden blue
- 12743 ✓ *Knirologus capensis* ♀ 160  
brown/blackish, pink below black
- 12744 ✓ *Cyanocoryps cyanus argentina* juv ♂ 175  
brown/black, dusky pink below barely, black.
- 12745 ✓ *Thamnopithecus ruficapillus cochabambae* ♀ 177  
red-bayl/black, leaden blue below, leaden blue
- 12746 ✓ Short Tailed Marmoset 183-57-27-18- ♀

53-34

|             | <u>SKINS</u> | <u>Additional</u> <sup>sp.</sup> | <u>New, sp.</u> | <u>Mammals</u> |
|-------------|--------------|----------------------------------|-----------------|----------------|
| La Merced = | 1104         | 169                              | 115             | 13             |
| Rio Lipeo = | 367          | 53                               | 34              | 32             |
| Total =     | 1471         | 222                              | 149             | 45             |

Total species taken = 81  
 Observed only = 10

12746  
 378  
 367

Fish from Monte Bello

1. Dorado - grows to large size in Rio Vermijo. When freshly caught whole fish suffused with beautiful golden yellow (hence name); fins all dusky yellow; silvery spot on side of head & on each side of under jaw. Back dark green, sides silvery.
2. Long slender, with mouth on under side of head. Dull lustrous brown color, each scale with dusky spot; lower fins & tail dull greenish yellow.
3. "Saval" (?) Back blackish green, sides silvery, speckled with dusky green (narrow margin along edge of scales). Pectoral & ventral fins reddish yellow, iris silvery with orange red spot on upper side.
4. Like no 3, but all fins except pectoral pair crimson.
5. Sucker mouth on end of snout. Buff yellowish, with irregular dusky bands around body; blacker on back & behind dorsal fin. Fins pale reddish yellow.
6. Very much like 5, but tail entire, not forked, & head wider. Double row of blackish spots along each side of body; large red spot around anus. Back dull olive, fins edged with dusky; sides grayish white.
7. Red horny sucker. Whole body bright pinkish salmon red. Only one seen, taken on sand bottom.
8. Common rock sucker; dirty brown, thickly speckled with black, including fins. Grows to 2 feet long common in shallow water amongst rocks.

53  
25/51



+

1320 ft.  
400 meters

Vermejo (Standard Oil Camp) Sept 7.

[73]

\* 12747 ✓ Saltator <sup>c.</sup> caerulescens ♂ 235

12748 ✓ " " " ♀ 236  
brown black dark brown

12749 ✓ Chlorostilbon a. aureiventris ♂ 95  
pink blood, tip black black

12750 ✓ " " " ♂ 96

12751 ✓ " " " im ♂ 95  
black, base of nat. + round pink

12752 ✓ Leucippus chionogaster ♂ 113  
black, pink flub below, tip black black

12753 ✓ Phaethornis T.F. ♂ 167  
black, vermillion below blackish  
(Building nest)

12754 ✓ Euscarthmus m. margaritaceiventris ♂ 122  
straw brownish black; brownish flub below purplish brown

12755 ✓ Myioborus brunneiceps ♂ 135  
brown black black

\*\* 12756 ✓ Herpsilochmus pileatus atricapillus ♂ 134  
brown black, leaden blue below leaden blue

12757 ✓ Xanthomyias sclateri ♀ 128

2-1 12758 ✓ " " " ♂ 136  
brown black, flub below basally leaden

2-1

+

12759 ✓ *Tolmomyias s. sulphurescens.* ♀ 151  
gray/black, flesh below/leaden

\* 12760 ✓ *Myiochanes f. fumigatus* ♀ 182  
brown/black, yellowish below (locally) black.

12761 ✓ *Pooecetes melanocephala* ♀ 134  
brown/black/dark brown horn

12762 ✓ " " ♂ 131

12763 ✓ *Syndactyla rufosuperciliaris oleag.* ♀ 195  
brown/black, flesh below/olive

12764 ✓ *Icterus hyperichus* ♂ 205  
brown/black/dark leaden.

\* 12765 ✓ *Turdus amaurochalinus* ♂ 228  
brown/yellowish, mottled with dusky, leaden horn

12766 ✓ *Batara cinerea* ♂ 335  
brown/leaden blue, ridge black/leaden blue

12767 ✓ *Cyclocheilus gujarensis cearensis* ♀ 174  
orange/brown horn, leaden blue below/leaden blue.

12768 ✓ *Veniliornis olivinus frontalis* ♀ 183  
brown/black, pale horn below/leaden black,

12769 ✓ *Passer sp.* (Opioca. (T.E)) ♂ 163  
brown/black/brown horn.

12770 ✓ *Piranga flava flava* ♂ 192  
brown/black, leaden blue below/dark horn

12771 ✓ *Trogonurus variegatus behni* ♂ 275  
brown/pale horn blue/leaden horn

A-11

Vermejt, Sept. 8.

● I went up road to oil well & Bertie worked down river. Fire still burning below & very smoky, but clear. Elier had.

\*\* 12772 ✓ *Chaetocercus mulsanti* ♂ 72  
black | black

12773 ✓ *Lesbia sparganura* ♀ 124  
black | black

\*\* 12774 ✓ *Heliomastor forcifer* ♀ 132  
black | black

12775 ✓ *Compsothlypis p. pitiaiyumi* ♀ 112  
brown | black, yellow below | brownish yellow

\* 12776 ✓ *Phaenomyias m. murina* (?) ♂ 126  
brown | black, fluff below, tip dusky | leaden

12777 ✓ *Mecocerculus l. leucophrys* ♂ 137  
brown | black, fluff at base below | black

12778 ✓ *Xanthomyias selateri* ♂ 138  
brown | black, fluff at base below | leaden

\*\* 12779 ✓ *Entotriccus striaticeps* ♀ 139  
brown | blackish, brown blue below | black

● *Falco* wings dull cinnamon brown, also rump; back  
lean brown; upper tail coverts checked; wings & tail  
black, <sup>(on outer webs)</sup> former with double transverse white  
edgings on secondaries & tertials; below whitish,  
chest buffy gray, all of underparts streaked somewhat  
with dusky; tail below uniform on inner webs,  
tipped blackish; white on outer webs & outer rectrices

8.4

x

- 12780 ✓ *Herpsilochmus pileatus atricapillus* ♂ 139  
brown/black, leaden blue below/leaden blue
- 12781 ✓ " " " " ♀ 137  
— | —, bluish flesh below | —
- \*\*  
12782 ✓ *Poospiza torquata pectoralis* ♂ 122  
brown/black, flesh at base below/dark brown
- 12783 ✓ *Thamnophis caeruleus dinelli* ♀ 168  
brown/black, leaden blue below/leaden blue
- 12784 ✓ *Synallaxis frontalis rutipennis* ♂ 159  
gray/black, bluish flesh below/yellowish olive
- 12785 ✓ " " " " ♀ 165
- 12786 ✓ " " " " ♂ 170
- 12787 ✓ *Synallaxis scutata whitei* ♀ 147  
brown/black, bluish flesh below/yellow olive
- 12788 ✓ *Diglossa s. sithoides* ♂ 130  
brown/black, flesh at base below/brown horn
- 12789 ✓ *Thlypopsis sordida* ♀ 150  
brown/black, leaden blue below/leaden blue
- 12790 ✓ *Charadrius collaris* ♂ 166  
brown/black, dirty flesh, iron brownish
- 12791 ✓ *Coryphospingus pileatus* ♂ 137  
brown/black, bluish flesh below/gray/black
- 12792 ✓ *Picumnus d'arbigyanus* ♂ 106  
brown/black, bluish horn below/leaden

9.5

9-5

\*

[75]

12793 ✓ *Thraupis sayaca* ♀ 190  
brown | leaden blue, tip of wing black | leaden blue

\* 12794 ✓ *Machetornis r. rixosa* ♂ 210  
brown | black | black

12795 ✓ " " " ♀ 197

12796 ✓ " " " ♂ 197

12797 ✓ *Buteo nattereri* (3) ♂ 405  
yellow | brown blue basally, black apically | yellow

\*\* 12798 ✓ *Belonopterus chilensis lampronotus* ♂ 365  
red | black apically, purplish black basally | black

12799 ✓ *Myiarchus tyrannulus* ♂ 213  
brown | black | black

12800 ✓ *Icterus p. pyrrhopterus* ♀ 198  
red-brown | black | blackish

12801 ✓ *Pyrrhura m. molinae* (T.M.E.) ♂ 269  
brown | black | black

12802 ✓ *Piaya cayana* ♂ 530  
carmine | pale olive green | leaden blue

11-6

11-6

+

Vermejo, Sept 9.

I stayed in today to put up super birds & write notes  
Berta worked on Agua Blanca side up along Road to 5.

12803 ✓ *Chaetocercus mulsanti* ♀ 77  
black | black.

12804 ✓ *Chlorostilbon aureiventris* ♀ 96  
black, pink below | black.

12805 ✓ *Leucippus chionogaster* (T.E.) ♂ 117  
black, pink below | black.

12806 ✓ *Helimastor furcifer* ♂ 137  
black | black.

12807 ✓ " " ♀ 136

12808 ✓ *Euscarthmornis plumbeiceps viridiceps* ♀ 106  
shaw | black | leaden horn

12809 ✓ *Serpophaga imunda* ♂ 121  
brown | black | black

12810 ✓ *Capsiempis f. flavoala* ♂ 126  
brown | black, pink below, tip black | leaden

12811 ✓ *Arremon flavirostris orbignyianus* ♂ 168  
brown | yellow | ridge black.

12812 ✓ *Saltator*<sup>C.</sup> *caeruleus* im ♂ 233  
brown | black | leaden horn

12813 ✓ *Thraupis sayaca* ♂ 188  
brown | leaden blue, tip of max. black | leaden

11-6

11-6

+

[56]

12814 ✓ *Cyclarhis gujensis cearensis* ♂ 181  
yellow | brown horn, leaden blue below | leaden

12815 ✓ *Batare cinerea* ♀ 336  
brown | leaden blue, ridge of culmen black | leaden blue

\* 12816 ✓ *Columbagallina talpacoti* ♀ 183  
straw | black | pink flesh

12817 ✓ *Pyrrhura m. molinae* ♀ 260  
brown | black | black

12818 " " " " ♂ 264

12819 ✓ *Chlorospingus ophthalmicus argentinus* ♂ 451  
brown | black | pale bluish horn

Vermejo, Sept 10

We both shot on Vermejo side. I went up road to oil well + Berto down the river. Whole atmosphere full of smoke from fires, stumps, etc. & visibility bad.

12820 ✓ *Chaetocercus mulsanti* ♀ 76  
black | black

12821 ✓ *Polioptila d. domicola* ♂ 129  
brown | black, leaden at base below | black

12822 ✓ " " " " ♀ 128

\*\* 12823 ✓ *Serpophaga inornata* ♂ 110  
brown | black | black

(37) Plum ashy gray, white belly, rump with black. sub  
dull grayish blue, more blue on rump, series black, double  
wing bar of white & green edged white; white streak from ventral  
to back of eye, & white spot below eye; throat ashy white, breast  
ashy; and below sulphur; tail rusty, outer, inner, & outer rectrices  
white; inner rectrices white

13-7

x

- \* 12824 ✓ *Aramides cajaneus* ♀ 393  
red / green, yellowish bandlets, dusky / rufous / purplish / grey
- 12825 ✓ *Leptoptila verreauxi* (T.M.E.) ♂ 302  
brown / black / purple, dusky / olive / rufous / leaden
- 12826 ✓ *Cryptorellus f. tataupa* ♀ 263  
brown / dull purple / purplish / leaden
- \* 12827 ✓ *Falco albicollis jax* ♀ 291  
brown / black, brown / olive / gamboge
- 12828 ✓ *Piaya cayana* ♂ 530  
carmine / bluish / olive, leaden / bandlets / leaden
- 12829 ✓ *Serpophaga inornata* ♂ 115  
brown / black / black
- \* 12830 ✓ *Euscarthmornis m. margaritaceiventris* ♂ 124  
brown / black, brown / brown / leaden / brown
- 12831 ✓ *Xanthopygia colorata* ♂ 139  
brown / black / black
- 12832 ✓ *Neococcyzus leucophrys* ♀ 137  
brown / black / black
- 12833 ✓ *Ceryle alcyon* ♀ 142  
brown / black, black / fine / brown / brown / brown
- 12834 ✓ *Amphispiza bilineata* ♀ 162  
brown / black, grey / leaden / brown / black / black
- 12835 ✓ " " ♀ 164

15-7



15-7

+

[77]

12836 ✓ *Buarremon borealis* ♀ 185

brown/black, pale beam

12837 ✓ " " ♂ 195

12838 ✓ " " ♀ 185

12839 ✓ *Elanoides forficatus* ♀ 182

brown/black, pale beam

12840 ✓ *Piranga flava flava* (M) ♀ 193

brown/black, leaden blue below, black beak

\*\* 12841 ✓ *Progne subis domestica* (M) ♂ 208

Progne subis domestica

brown/black, leaden

12842 ✓ " " ♀ 201

12843 ✓ " " ♀ 192

\*\* 12844 ✓ *Agelaius phoeniceus* ♂ 268

brown/black, dusky flank below, black

throat white, heavily streaked with black; chest ashy brown; abd. flanks crimson buff, ochraceous; tail black, outer webbing with outer web white, 4 or 5 2nd penultimate with slight white tip.

12845 ✓ *Turdus amicus* ♀ 226

brown/dark brown, mottled with pale yellow, brown below

12846 ✓ " " ♂ 245

yellow tip of wing, dusky, dirty brown

17-9

17-9

+

Peruvians, Sept 11

Last night the fire came in close to houses in Peruvian camp & only kept away by soldiers kept camp from burning. Wrote a note on that side today but much of it had disappeared. Had to walk to the fire, searched up carcasses on some islands side going up to the S. Then was along road in places. Each side in order to prevent a big conflagration.

12847 ✓ *Chlorostilbon peruviana* ♀ 93

black down flat brown to black down

12848 ✓ " " ♀ 93

12849 ✓ *Helminthophila forsteri* ♂ 125

black down

12850 ✓ " " ♂ 135

12851 ✓ " " ♂ 136

12852 ✓ " " ♂ 132

12853 ✓ " " ♂ 138

12854 ✓ " " ♂ 139

12855 ✓ *Fuscarhinus plumbeiceps v. plumbeiceps* ♂ 110

brown / black / leaden

12856 ✓ *Basileuterus b. bivittatus* ♀ 142

brown / black / yellowish brown

12857 ✓ *Knipolegus cabanisi* ♂ 167

brown / leaden blue, tip of max black / black

17-9

17-9

[78]

x

12858 *Amphispiza cabanisi*

♀ 161

brown/black, leaden blue below/black

12859 *Thamnophilus caeruleoscapus dimidiatus*

♀ 160

12860 *Cyanocitta cyanea ussuetina*

♂ 181

brown/black, some blue at base below/blackish

12861 *Saltator <sup>c.</sup> ~~caeruleus~~ olivaceus*

♂ 230

brown/black, brown below

12862 *Turdus ~~caerulescens~~ <sup>parviventris</sup> ~~caerulescens~~*

♀ 268

brown/dull yellow, blackish at base below/dull brown

12863 *Lepidocolaptes anostirostris*

♀ 217

brown/blackish, sides blackish locally, plum. below

leaden

12864 *Piranga flava flava*

♀ 194

brown/black, leaden blue below/leaden brown

\* 12865 *Claytonia pretiosa*

♂ 208

orange/blackish, dull brown below of base

12866 *Crypterellus tatarpa*

♂ 258

brown/grey, brown above, dark purplish black

12867 *Sciurus*

364-175-51-27-♂

18-9

18-9

+

Sierrita, Sept 12.

Began ranning this morning about 5 AM. + rained hard (1/2 inch) till about 7, then drizzled for another hour or 2. I stayed in to write labels + Bert went shooting on the side, up above clearing.

12868 *Chlorostilbon aureoventris* T.E. ♂ 94  
pink blood, top black | black.

12869 *Helimaster forcifer* ♀ 131  
black | black.

12870 *Camptostomus obsoletum* ♀ 113  
brown | black, pink below | leaden

12871 " " ♀ 113

12872 *Phaeomyias murina*(?) ♂ 122  
brown | black, pink below | leaden black.

12873 *Herpsilochmus pileatus atricapillus* ♂ 137  
brown | black, blunt pink below | leaden blue

12874 " " " " ♀ 135

12875 *Hemithraupis g. guira* ♂ 139  
brown | yellow, ridge black | leaden

12876 *Sittasomus g. griseicapillus* ♀ 148  
brown | black, leaden blue below | leaden

12877 *Basileuterus b. bivittatus* ♀ 147  
brown | black | brownish yellow

12878 " " " " ♂ 153

18-9

18-9

x

[9]

12879 ✓ *Tolmomyias s. sulphorescens* ♂ 152  
gray/black, fluff below/leaden blue

12880 ✓ *Thamnophilus caerulescens dinellii* ♂ 164  
brown/black, leaden blue below/leaden blue

12881 ✓ *Vermilionis olivinus frontalis* ♂ 189  
brown/black, brown blue below/leaden brown

12882 ✓ *Turdus <sup>rufiventris</sup> ~~castaneiventris~~* ♀ 252  
brown/olive yellow, base above dusky/brown blue

12883 ✓ *Amazona aestiva xanthopterus* ♀ 375  
red-orange/blackish/blackish brown

12884 ✓ " " " " ♂ 392

12885 ✓ *Sicalis pelzelni* (?) ♂ 135  
brown/black, fluff below/dark brown

12886 ✓ " " " ♀ 132

12887 ✓ " " " ♂ 143

12888 ✓ " " " ♀ 129

12889 ✓ *Zonotrichia capensis hypoleuca* ♂ 155

18-9

Vermejo, Sept 13 (Sunday)

I wrote letters & rested today, also Berta

Sept 14

I went to Aram with Sr. Wodak. Berta skinned 5 birds & labelled & wrapped the whole collection

18-9

+

Vermejo, Sept 15

We both shot on Bolivian side of river this morning. Birds scarce, except certain common species.

- 12890 ✓ Saltator <sup>c.</sup> caerulescens a. ♂ 238  
brown | black | dark brown
- 12891 ✓ " " " ♀ 221
- 12892 ✓ " " " ♀ 221
- 12893 ✓ Heliomaster furcifer ♂ 124  
black | black.
- 12894 ✓ " " " ♂ 135
- 12895 ✓ " " " ♀ 130
- 12896 ✓ Serpophaga munda ♀ 114  
brown | black | black.
- 12897 ✓ Serpophaga inornata ♀ 113  
brown | black | black
- 12898 ✓ Campostoma obsoletum (3) ♂ 117  
brown | black, black below totally | black
- 12899 ✓ " " " ♂ 122
- 12900 ✓ Mecocerculus l. leucophrys ♀ 133  
brown | black | black.
- 12901 ✓ Sublegatus m. modestus N. 12018? ♂ 140  
brown | black | black.
- 12902 ✓ Satrapa heterophrys ♂ 173  
brown | black | black

18-9

18-9

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[80]

12903 ✓ *Myiophobus r. rixosa* ♂ 197  
brown | black | black.

12904 ✓ *Pitangus sulphuratus* ♂ 247  
brown | black | black.

12905 ✓ *Myiophobus striaticeps* ♂ 230  
brown | black | black.

18-9

|           | <u>Total skins.</u> | <u>Total sp.</u> | <u>Sp. new</u> | <u>Mammals</u> |
|-----------|---------------------|------------------|----------------|----------------|
| Rio Luper | = 1471              | 222              | 149            | 45             |
| Bermijo   | = <u>159</u>        | <u>18</u>        | <u>9</u>       | <u>1</u>       |
|           | 1630                | 240              | 158            | 46             |

76 species taken at Bermijo

+

(1150 ft)

Fortui Camposo, Sept 16

Arrived at noon from Aguablanca. In afternoon we went shooting & secured the following.

12906 ✓ *Polioptila d. dumicola* ♀ 122  
brown/black, leaden below (ally) leaden

12907 ✓ *Serpophaga imunda* ♂ 121  
brown/black/black

12908 ✓ *Entaticus striaticeps* ♂ 145  
brown/black, leaden blue below/leaden

12909 ✓ *Sublegatus m. modestus* ♂ 145  
brown/black/black

\*\*  
12910 ✓ *Myrmochilus strigilatus suspicax* ♂ 165  
brown/black/whisker flush

12911 ✓ " " " ♀ 165  
— | —, Tomia's base below flush | —

12912 ✓ *Thamnophilus caerulescens dinellii* ♂ 163  
brown/black, leaden below/leaden blue

12913 ✓ *Synallaxis frontalis fuscipennis* ♂ 169  
hazel/black, blunt (black below) pale leaden blue

\*\*  
12914 ✓ *Phacellodomus rufifrons sinuipitalis* ♀ 177  
gray/black, leaden blue below/leaden blue

12915 ✓ " " " ♂ 187

12916 ✓ " " " ♂ 180



\*\*

12917 ✓ *Taraba major* Krieger ♂ 225  
 carmine | black, leaden blue below | leaden blue

12918 ✓ *Pitangus sulphuratus bolivianus* ♀ 257  
 brown | black | black.

12919 ✓ *Turdus amaurochalinus* ♀ 240  
 brown | blackish, dull yellow mixed | pale leaden blue

12920 ✓ *Amazona tucumana* (Red-tail) ♂ 345  
 orange yellow | flesh | dusky brown

12921 ✓ " " ♂ 330

12922 ✓ *Amazona aestiva xanthopteryx* ♀ 370  
 orange | black | dirty blackish.

Fortui Campesina Sept 17.

Swathed up road along Rio Bermejo + Ber. on Rio Tarija.

12923 ✓ *Knipolegus a. aterrimus* ♀ 175  
 brown | black, leaden blue below | black.

\*\* 12924 ✓ *Scarpophaga nigricans* ♂ 129  
 brown | black | black.

12925 ✓ *Euscarthmornis m. margaritaceiventris* ♂ 123  
 straw | dark purplish, pale purplish below | purplish brown.

12926 ✓ *Tolmomyias s. sulphivirens* ♂ 160  
 brown | black, flesh below | leaden

\* 12927 ✓ *Wichensops por. perspicillata* ♂ 164  
 yellow | yellow | black.

5-4

+

12928 ✓ *Suiriri suiriri* ♂ 160

brown/black/black

12929 ✓ " " " " (M) ♂ 154

\* 12930 ✓ *Stelgidopteryx ruficollis* ♀ 133

brown/black/black

12931 ✓ *Charadrius collaris* (M) ♂ 165

brown/black/flesh

12932 ✓ " " " " ♂ 165

12933 ✓ *Saltator aurantirostris tilcarae* ♀ 220

orange bill; gray above, with front of head & sides of head black & white black postoral band encircling rufous white throat; chest grayish, rest below cinnamon with brown/orange & dark brown

12934 ✓ *Sittasomus* ♀ 150

brown/black leaden blue below/leaden

12935 ✓ *Taraba majori kriegi* ♂ 222

cinnamon/black, leaden at base below/leaden blue

12936 ✓ " " " " ♀ 226

— / — leaden blue below —

\*\* 12937 ✓ *Paroaria capitata* ♀ 173

red lip pale pinkish brown/brownish brown

12938 ✓ *Mimus triurus* ♂ 232

and yellow/black, brown blue at base below/black

12939 ✓ *Cyanocitta cyanea argentina* ♂ 175

brown/black, pale brown below at base/black

7-5

7-5)

x

[82]

\*\*

12940

Totanus flavipes

brown | black | dusky yellow

♀ 265

12941

Machetornis r. rixosa

brown | black | black

♀ 201

Factor Campesano, Sept 18.

Beats worked in part of north part. I went down in "juntas". Birds abundant there & many kinds. Day partly cloudy & cool - no flies till about 10 am.

12942

Serpophaga munda

brown | black | brown

♀ 117

12943

Serpophaga nigricans

brown | black | black

♂ 127

12944

Lessonia "rufa rufa"

brown | black | black

♀ 125

\* 12945

" " "

♀ 127

12946

Pyrochelidon cyanocephala pitagorica

brown | black | black

♂ 135

12947

Herpsilochanus pileatus atricapillus

brown | black, flesh lobes | leaden blue

♀ 140

\*\*

12948

Anthus l. lutescens

brown | black, flesh flesh below | brownish flesh

♀ 139

12949

" " "

♂ 134

12950

" " "

♀ 145

12951

10-7 " " "

♀ 137

10-7

+

12952 ✓ *Myrmochilus strigilatus suspicax* ♀ 166  
brown/black, breast plum below/dull leaden blue

12953 ✓ *Pospiza torquata pectoralis* ♂ 125  
brown/black, dark leaden blue/dark brown

12954 ✓ *Lichenops perspicillata* ♀ 160  
yellow/eyebrow yellow/blackish brown/plum below/black

\*\*  
12955 ✓ *Xolmis irropero* ♀ 180  
brown/black/black

12956 ✓ *Piaya cayana obscura* ♀ 547  
carmine/black line darker than bill/dark leaden

12957 ✓ *Arremonops capitata* ♂ 162  
red/brownish pink/brownish plum

12958 ✓ " " ♀ 168

12959 ✓ *Xolmis murina* ♀ 193  
brown/black, plum below basally/black.  
Entire upper parts brownish gray, tail & lower coverts  
black; outer web of outer rectrices white; throat white  
finely streaked with blackish, chest dull grayish  
red below soiled creamy white.

12960 ✓ " " ♀ 193

12961 ✓ " " ♀ 192

12962 ✓ *Synallaxis sootata rubrifrons* ♂ 145  
brown/black, leaden blue below basally/dull olive

12963 ✓ " *frontalis rufipennis* ♂ 162  
red-brown/black, leaden blue below/dull olive

12-9

12-9

X

[83]

12964 ✓ *Taraba major Kriegeri* ♂ 215  
carmine | black, below at low below | border blue.

12965 ✓ *Minus triurus* ♀ 228  
dusky yellow | black, bluish black at low below | black.

12966 ✓ " " ♀ 225

12967 ✓ *Molothrus b. bonariensis* ♂ 205  
brown | black | black.

\*\*  
12968 ✓ *Accipiter erythronemius ventralis* ♂ 380  
yellow | black, rufous at low below | olive yellow.

12969 ✓ *Merops merops pilcomayensis* ♂ 442  
" hazel | black | blackish.

12970 ✓ *Amazona tucumana* (red front) ♂ 328  
orange yellow | flesh | pale rusty.

12971 ✓ " " ♀ 318

12972 ✓ " " ♂ 322

12973 ✓ " " ♂ 318

13-10

13-10

+

Fortui Campos, Sept. 19.

We both worked down on the "playones" of the grantas. Everything except Passer from there

12974 *Serpophaga inornata* ♀ 105  
brown | black | black.

12975 ✓ *Serpophaga nigricans* ♀ 126  
brown | black | black

12976 ✓ " " " " juv ♂ 120  
— | —, flesh below | —

12977 ✓ *Lessonia rufa rufa* ♂ 134  
brown | black | black

12978 ✓ " " " " ♂ 130

12979 ✓ " " " " (M) ♀ 130  
brown | black | black

12980 ✓ " " " " " ♀ 130

12981 ✓ " " " " (M) ♀ 132

\*\* ✓  
12982 *Elania parvirostris* ♀ 154  
Olive above, with large white vertical patch, wing blackish, with double wing bar in white & white edging on secondaries; throat & chest rich white, with an olive collar between, belly white medially, sides flanks, rump & under wing covert olivaceous sulphur brown | black, flesh below | black.

12983 ✓ *Anthus l. lotescens* ♂ 145  
brown | black, throat flesh below | brownish flesh

14-11

14-11

+

[84]

12984 ✓ *Anthus l. lutescens* ♂ 140

12985 ✓ " " ♂ 142

12986 ✓ " " ♂ 133

12987 ✓ " " ♂ 138

\*\* 12988 ✓ *Asthenes pyrrholeuca affinis* ♂ 162

Mouth brown above, upper tail coverts & median rectrices  
cinnamon brown; rest of tail blackish on inner webbing,  
cinnamon on outer web; throat & face rather reddish cinnamon  
below dirty grayish, flanks & breast cinnamon buff;  
fluffy yellow chin spot; <sup>iridescent cinnamon brown</sup> <sup>head band</sup> <sup>of cinnamon</sup> <sup>reflex across long wings</sup>  
brown | black, flat below | black.

12989 ✓ " " " ♂ 167

12990 ✓ *Stelgidopteryx ruficollis* ♂ 143  
brown | black | black.

\* 12991 ✓ *Iridoprocne leucorhoa* ♀ 142  
brown | black | black.

12992 ✓ *Paroaria capitata* imm ♀ 172  
breast red | salmon red | dirty tan.

12993 ✓ *Lichenops perspicillata* ♀ 163  
straw | black, yellow below | black

12994 ✓ " " ♀ 165  
brown | — | —

12995 ✓ " " ♂ 161  
yellow | yellow fluff, tip dusky | black

16-12

16-12

+

- 12996 ✓ *Xolmis murina* (No. 12959) ♀ 199  
brown | black, brown blue below | black
- 12997 ✓ *Mimus triurus* ♂ 250  
dusky yellow | black, brown blue at base below | black
- 12998 ✓ " " ♀ 235
- 12999 ✓ " " ♂ 242
- 13000 ✓ " " ♀ 231
- 13001 ✓ *Passer* sp. T.M.E. ♂ 165  
brown | black | pale brown below
- 13002 ✓ " " T.M.E. ♂ 165
- 13003 ✓ *Zonotrichia capensis hypoleuca* ♂ 154  
brown | black, pale brown below | brownish flesh
- 13004 ✓ " " ♀ 148
- 13005 ✓ *Belonopterus chilensis lampronotus* ♀ 355  
carmine (purplish carmine basally, black apically) | black purplish
- \*\*  
13006 ✓ *Podager n. maculata* ♀ 280  
brown | black | dirty brown
- 13007 ✓ " " ♀ 295
- 13008 ✓ *Leptoptila chlorocephala* ♂ 305  
yellow | black | purplish throat
- 13009 ✓ *Chlorostilbon aureiventris* ♂ 97  
pink flesh, tip black | black
- \*  
13010 ✓ *Muscivora tyrannus* ♂ 356  
brown | black | black

18-13



18-13

+

[85]

Sept. 20 Fortui Campes (Sunday)

Finished birds from yesterday, did odds & ends & wrote labels.

Fortui Campes, Sept 21

I went up along Rio Bermejo. Birds scarce except a few common species, as Saltator caeruleus, Arremon flavirostris, Basileuterus frontalis, Trichothorus melanocephalus, Turdus superciliosus, Thamnophtus caeruleus diuelli, Synallaxis scutata & frontalis.

Berto went up Rio Tanya. Day cloudless, without wind & very hot, 32°C in shade at 11 pm. but 9° at 6 am.

13011 ↓ Euscarthmornis m. margaritaceiventris (M) ♀ 110  
brown | brown above, dusky | black below | purple | brown

13012 ↓ Troglodytes mosculus rex ♂ 123  
brown | black, black | broadly below | dusky brown

13013 ↓ Synallaxis frontalis fuscipennis ♀ 166  
dusky | brown | black, black | black below | black

13014 ↓ Saltator aurantirostris tilcarae ♂ 210  
brown | yellow, tip blackish | leaden brown

13015 ↓ Myrmochilus strigilatus suspicax ♂ 173  
brown | black, brown & tan below | leaden blue | leaden blue

13016 ↓ " " " " ♂ 172

13017 ↓ " " " " ♂ 171

18-13

18.13

+

13018 ↓ *Icterus pyrrhopterus* ♂ 247  
brown / black / dark brown

13019 ↓ *Hypomorphnus u. urubitinga* ♂ 645  
brown / black, brown blue at base below / yellow

13020 ↓ *Taraba major kriegi* ♂ 222  
carmine / black, lower blue below / barely / leaden blue

\* 13021 ↓ *Ictinia plumbea* ♂ 350  
carmine / black / orange

13022 ↓ *Saltator c. caerulescens* ♂ 236  
brown / black / blackish brown

\*\* 13023 ↓ *Nystalus maculatus striaticeps* ♀ 205  
straw / dull red, ridge black / bluish blue

\*\* 13024 ↓ *Chloronotus c. chrysoclorus* ♂ 237  
pale blue / black / dirty blue

13025 ↓ *Paroaria capitata* ♀ 170  
red / brownish pink / brownish pink

13026 ↓ " " ♀ 172

13027 ↓ *Xiphocolaptes major castaneus* ♀ 347  
brown / leaden blue, up blackish / blue

13028 ↓ *Serpophaga nigricans* ♂ 130  
brown / black / black

13029 ↓ *Stelgidopteryx ruficollis* ♂ 146  
brown / black / black

21-15

13030 ↓ *Cyclarhis gujanensis cearensis* (M) ♀ 169  
yellow | brown | leaden blue below | leaden blue

Fortui Campos, Sept 22

I worked around in forest between roads river  
& along the big rivule. Was kept busy picking off  
ticks. Day very hot & sunny.

Bertie went down to the "junta" again  
but did not get much, but some good things.

13031 ↓ *Herpsilochmus pileatus atricapillus* ♂ 135  
brown | black, leaden blue below | leaden blue

13032 ↓ *Myrmochilus strigilatus suspicax* ♂ 170  
brown | black, brown blue basally below | dull leaden blue

13033 ↓ " " " ♂ 168

13034 ↓ *Telmomyias s. sulphurescens* ♂ 150  
gray | black, pink below | pale leaden blue

13035 ↓ *Sittasomus* ♀ 159  
brown | black, leaden blue below | leaden

13036 ↓ *Phacellodomus rufifrons sincipitalis* ♀ 185  
gray | black, brown blue below | leaden

13037 ↓ " " " ♂ 178

13038 ↓ " " " ♀ no tail

13039 ↓ *Saltator<sup>e.</sup> caerulescens* ♀ 228  
brown | black | dark brown

21-15

+

13040 ↓ *Taraba major* Krieger ♂ 225  
 Cassin's black, leaden blue below at last leaden blue

13041 ↓ "Rabbit" 350-19 -81-57-♂

San Juan

13042 ↓ *Xolmis murina* ♂ 197  
 brown black, pink below locally black

13043 ↓ " " ♀ 196

13044 ↓ *Agriornis mimicroptera* ♀ 256  
 brown black, pink below black

13045 ↓ " " ♀ 265

13046 ↓ *Paroaria capitata* ♂ 172  
 red pinkish orange brownish pink

13047 ↓ " " ♂ 175

\* 13048 ↓ *Tacana j. jacana* im ♀ 257  
 brown dusky yellow yellow below iridescent purple leaden horn

13049 ↓ *Podager maculosa* ♂ 305  
 brown black pale horn

22-15

|                | <u>Total Skins</u> | <u>Additional Species</u> | <u>Not taken previously</u> | <u>Mammals</u> |
|----------------|--------------------|---------------------------|-----------------------------|----------------|
| Bermejo        | = 1630             | 240                       | 158                         | 46             |
| Fortin Campero | = 144              | 22                        | 15                          | 1              |
|                | <u>1774</u>        | <u>262</u>                | <u>173</u>                  | <u>47</u>      |

62 species taken

" observed (previously taken)

" " (not taken)

Rio Luper, Oct 1

Caught in mouse trap baited with ripe banana. 12 traps set, but no mice. They don't like banana, apparently.

13050 ✓ Rat Opossum. 237-132-15-22-♂

Rio Luper, Oct 2

The Goatsucker shot at night with headlight. Quite a few calling at night. None seen on first visit.

Large rat caught in trap baited with sweet, around fallen trees & limbs. Mice caught in same places as previously, bait, baited corn.

13051 ✓ Long Tailed Rat = 297-150-34-23-♂

13052 ✓ Long Tailed Mouse (gray belly) 225-127-24-14-♀

\* 13053 ✓ *Setopagis p. parvula* ♀ 218

(brown/black/brown horn)

Rio Luper Oct 3

Rabbit shot last night with headlight. Little Opossum caught in mouse trap, baited with baited corn.

13054 ✓ Tiny Rat Opossum. 113-42-12-12-♂

13055 ✓ Long Tailed Mouse (white belly) 237-138-25½-15½-♂

13056 ✓ Rabbit 342-26-82-53-♂

\*\* 13057 ✓ *Empidonax v. varius* ♂ 212  
(brown/black/black)

|                       | <u>Total skins</u> | <u>Total species</u> | <u>New Species</u> | <u>Mammals</u> |
|-----------------------|--------------------|----------------------|--------------------|----------------|
| Farrini Campers =     | 1774               | 262                  | 173                | 47             |
| Liper (return trip) = | <u>8</u>           | <u>2</u>             | <u>2</u>           | <u>6</u>       |
|                       | 1782               | 264                  | 175                | 53             |

Erte Rios, Oct 17, 1936 (4600 ft)

Both washed up the valley, along river.

13058 ✓ *Serpophaga munda* ♀ 118  
brown/black/black

13059 ✓ *Euscothornis m. margaritaceiventris* ♂ 127  
straw/black, brown with brown below brownish brown

\*\* 13060 ✓ *Acrochordopus burmeisteri* ♂ 136  
brown/black, pink below leaden

\* 13061 ✓ *Myiophobus fasciatus flammeiceps* ♀ 135  
brown/black, pale brown below black

13062 ✓ " " " ♂ 145

\* 13063 ✓ *Myiochanes richardsoni* (?) ♀ 147  
brown/black, yellow below black

\* 13064 ✓ *Geothlypis aequinoctialis velata* ♂ 140  
brown/black, brown below dusky, pink,

13065 ✓ *Synallaxis frontalis fuscipennis* ♀ 161  
hazel/black, leaden below olive

13066 ✓ *Troglodytes muscivorus rex* ♂ 134  
brown/black, bluish black below pale to red brown

13067 ✓ " " " ♀ 127

13068 ✓ *Satrapa intereprys hellmayri* ♀ 168  
brown/black/black

- 13069 ✓ Saltator *arantirostris* <sup>bolivianus</sup> ♂ 217  
brown/orange; ridge dusky; blackish brown
- 13070 ✓ " " " " ♀ 226  
blackish, orange below
- 13071 ✓ *Xelaimis irapero* (T.M.E.) ♂ 198  
brown/black/black
- 13072 ✓ " " " " im. ♂ 178
- 13073 ✓ *Vireo eichleri* ♀ 141  
brown/black/brown/black
- 13074 ✓ " " " " ♂ 153
- \*\* 13075 ✓ *Coccyzus melacoryphus* ♀ 276  
brown/brown/brown/black
- 13076 ✓ *Mniotilta ~~rotula~~ <sup>caerulescens</sup>* ♂ 205  
brown/black/brown/black
- 13077 ✓ *Cataneris a. a. a.* ♂ 131  
brown/pale yellow/brown/black
- 13078 ✓ " " " " ♂ 136
- \*\* 13079 ✓ *Syrnium magellanicus bolivianus* ♂ 118  
brown/black/brown/black
- 13080 ✓ *Pooecetes whitii* ♂ 150  
brown/black/brown/black
- \*\* 13081 ✓ *Furnarius rufus paraguayae* ♀ 199  
red-brown/black/black/brown/brown
- 13082 ✓ " " " " ♀ 205



7-4

[89]

- 13083 ✓ *Furnarius rufus paraguayae* (T.E.) ♂ 205  
 13084 ✓ " " " " (T.E.) ♂ 206  
 13085 ✓ " " " " ♂ 212  
 13086 ✓ *Sicalis pelzelni* ♀ 130  
 brown | blackish brown, flesh below (basally) dusky brown  
 13087 ✓ *Zenaidura macroura* ♂ 162  
 13088 ✓ " " " " ♂ 155  
 \* 13089 ✓ *Heterospizias m. merid.* ♂ 520  
 light brown | flesh (basally) - orange gamboge  
 feet white.

Entre Rios, Oct. 18 (Sunday) Clear & hot.

I went down to junction of 2 Rivers, then worked up the Sta Ana river several miles & came back to town over the broken plateau. Birds went down main stream. The heavy rain last night caused the river to rise considerably, making very muddy. Difficult crossing on stream. Day extremely hot & humid after rain. Birds not very abundant up Sta Ana.

- 13090 ✓ *Cathlypis aequinoctialis velata* ♂ 142  
 brown | black, bluish flesh below | pale brown  
 13091 ✓ *Euscarthmornis m. margaritaceiventris* ♂ 111  
 straw | brownish black, brown below | purplish brown.

8-4

8-4

X

13092 ✓ *Myiophobus fasciatus flaviniceps* ♂ 144  
brown | black, brownish flesh below | black.

13093 ✓ *Pooecetes whitii* ♂ 151  
brown | black, leaden blue below basally | black.

13094 ✓ *Coccyzus melacoryphus* ♀ 270  
brown | black | olive leaden.

\*  
13095 ✓ *Chloroceryle americana matthewsi* ♀ 211  
brown | black | black

13096 ✓ " " " " ♂ 220

13097 ✓ *Knipolegus a. aterrima* (T.E.) ♂ 178  
brown | pale leaden blue, top black | black

13097 <sup>duplicated</sup> *Cyanocitta stelleri* (M) ♀ 170  
<sup>see No. 13148</sup> black, bluish at base below | black.

13098 ✓ *Machotornis r. rixosa* ♀ 201  
brown | black | black.

13099 ✓ *Nystalus maculatus striaticeps* ♀ 212  
shain | black, brown + below apically red | leaden

13100 ✓ " " " " ♂ 206

13101 ✓ *Mimus saturninus modulator* (T.E.) ♂ 268  
dark greenish | black, bluish at base below | black

13102 ✓ *Molothrus h. panamensis* ♀ 192  
brown | black | black.

9-4

9-4/

x

[90]

Berto

13103 ✓ *Serpophaga nigricans* (T.M.E) ♂ 127  
brown | black | black.

13104 ✓ *Myiophobus fasciatus flammeiceps* ♂ 143  
brown | black, brown below | black

13105 ✓ *Pyrocephalus rubinus* ♀ 145  
brown | black | black.

13106 ✓ *Vireo c. chivi* ♂ 151  
brown | black, bluish flush below | leaden blue

13107 ✓ *Pooecetes whittii* ♂ 144  
brown | black, bluish flush below | black.

13108 ✓ *Coryphospingus cucullatus* ♂ 142  
brown | black, darker black below | rarely | black

\* 13109 ✓ *Myiospiza<sup>h.</sup> homeralis* ♂ 138  
brown | black, bluish flush below | brownish flush

13110 ✓ *Sicalis pelzelni* ♂ 138  
brown | black, flush below

13111 ✓ *Coccyzus melagoryphus* Ⓜ ♀            <sup>not tall.</sup>  
brown | black, | leaden

\* 13112 ✓ *Empidonax a. aurantio-atro-cristatus* ♀ 193  
brown | black | black

\* 13113 ✓ *Myiodynastes solitarius* ♂ 203  
brown | black | black

12-4

12-4

+

13114 ✓ *Turdus r. rotiventris* ♀ 256  
brown | dull olive, ridge black | dirty brown

13115 ✓ *Molothrus b. benariensis* (T.E) ♂ 217  
brown | black | black

13116 ✓ " " " " ♀ 193

\* 13117 ✓ *Cyanocorax cyanomelas* ♀ 382  
brown | black | black

Entre Rios, Oct. 19.

Day clear & hot. Went up over hills & cut into Rio Sta Ana at upper end, cultivated portions & then worked up river in forest. Birds common only to east & south of river hills & scrubland. In at 11 AM.

13118 ✓ *Xanthomyias sclateri* ♂ 119  
brown | black, thin black line below | brown

13119 ✓ *Capsiempis f. flavoda* ♂ 131  
brown | black, pink, black | brown

13120 ✓ *Serpophaga nigricans* (T.E) ♂ 131  
brown | black | black

13121 ✓ *Camptostoma obscurum* ♀ 118  
brown | black, pink | black

xx 13122 ✓ *Phaeomyias m. murina* ♀ 133

Rich hair brown above, more ashy gray beneath. Icy above & more white below; 2-4 rows washed with black, rest white. Sulphur markings black double bars of ash white, secondary bar black, white; under wing coverts sulphur. Brown | black, pale at base below | black.

14-5

14-5]

\*

[9]

13123<sup>✓</sup> *Phaenomyias m. murinus*

♂ 135

13124<sup>✓</sup> "

♂ 130

13125<sup>✓</sup> *Myiophobus fasciatus flammicop.*

♂ 144

brown/black, dusky beneath | black

13126<sup>✓</sup> " " " "

♂ 138

\* 13127<sup>✓</sup> *Sublegatus m. modestus*

♀ 152

brown/black | black

\*\* 13128<sup>✓</sup> *Empidonax euleri argentinus*

♂ 144

brown/black, fluff below | black

13129<sup>✓</sup> *Elaenia parvirostris* = No. 17982

♂ 165

brown/black, fluff below | black

13130<sup>✓</sup> *Geothlypis trichasoides velata*

♂ 138

brown/black, fluff below | pale tan

13131<sup>✓</sup> *Basileuterus l. bixittatus*

♀ 149

brown/black | yellowish brown

13132<sup>✓</sup> *Thamnophilus caeruleus dinellii*

♀ 161

brown/black, leaden blue below | leaden blue

\*\* 13133<sup>✓</sup> *Synallaxis superciliosus*

♂ 173

~~black~~, brown/black, leaden blue usually | olive

13134<sup>✓</sup> *Vireo c. chivi*

♂ 147

brown/black, leaden blue below | leaden blue

17-7]

12-7

+

13135 ✓ *Picomnis d'orbignyianus*? <sup>juv.</sup> ♂ 107  
 ♀ whole plumage black; nape, head & side of neck, streaked & variegated with white; back olive brown, faintly barred with dull ochraceous; below uniformly barred with black & white. brown/black, olive black below (basally on sides) olive

13136 ✓ *Melospiza ophthalmica argentinus* ♂ 153  
 brown/black leaden

13137 ✓ *Xonops rutilans connectens* (T.E) ♂ 133  
 brown/black leaden

13138 ✓ *Sittacus, g. griseicapillus* ♀ 157  
 brown/black leaden blue below

13139 ✓ *Syndactyla ruficeps ciliatus oleag.* ♀ 193  
 brown/black, flesh below olive

13140 ✓ *Myiarchus tyrannulus chloropygus* Ⓜ ♀ 210  
 brown/black black.

\* 13141 ✓ *Myiarchus tuberculifer atriceps* ♂ 201  
 brown/black black

\*\* 13142 ✓ *Myiodynastes luteiventris* ♀ 240  
 brown/black, flesh below leaden

13143 ✓ *Myiospiza hemerilis humeralis* ♂ 142  
 brown/black, flesh pink below flesh

13144 ✓ *Zenotrichia capensis hippoleuca* ♂ 154  
 brown/black, brown below pale brown

20-9

20-9

x

[92]

13145 ✓ *Xiphocolaptes major castaneus* ♂ 338  
red-brown | brown blue, ridge, darker brown | blue

13146 ✓ *Cyanocorax cyanomelas* ♀ 390  
brown | black | black

13147 ✓ *Zonotrichia capensis hypoleucos* ♂  
(see no. 13144)

13148 ✓ *Cyanocampsa cyanea argentina* (M) ♀ 170  
brown | black, black at base below | black

Entre Rios, Oct 20

I went back to same place as yesterday, up over  
San Luis to Rio Ste Ana. Boat worked up  
main river from town. Rain & hail yesterday  
afternoon & at night more rain. Forenoon clear & hot.

13149 ✓ *Chaetocercus mulsanti* (?) ♀ 73  
black | black

13150 ✓ " " " ♀ 76

13151 ✓ *Poliaptila d. demicola* (T.M.E) ♂ 128  
brown | black | leaden

13152 ✓ " " " (T.M.E) ♂ 133

13153 ✓ *Copsicempis f. flavella* ♂ 132  
brown | black, black at base below | leaden blue

13154 ✓ *Xanthomyias solator* ♂ 120  
brown | black, black below, tip black | leaden

20-9

20-9

x

13155 ✓ *Empidonax eulari argentina* ♀ 157  
brown/black, pink below black

13156 ✓ *Myiophobus fasciatus flaviceps* ♂ 140  
brown/black, dusky, brown below black

13157 ✓ " " " ♀ 132

13158 ✓ *Tolmomyias s. sulphurescens* ♂ 154  
gray/black, blue below leaden

13159 ✓ " " " ♂ 158

13160 ✓ *Elaenia parvirostris* (No. 12982) ♂ 162  
brown/black, white, blue below (locally) black

13161 ✓ *Xelias nupera* ♀ 189  
brown/black/black

13162 ✓ " " ♀ 190

13163 ✓ " " (T.E.) ♂ 145

13164 ✓ *Synallaxis frontalis* ♂ 179  
brown/black, leaden below, pink above

13165 ✓ *Spinus magellanicus bolivianus* ♂ 118  
brown/black, dusky, brown below black

\*\* 13166 ✓ *Pooecetes* (?) (P) ♂ 154  
brown/black, dusky, brown below dusky pink

\* 13167 ✓ *Hylodictya estoroi swainsoni* ♂ 186  
brown/black, pink at base below black below

13168 ✓ *Thraupis sayaca* ♂ 192  
brown/black, leaden blue below leaden blue

22-10



22-10

Plum with broad superciliary stripe of ash white to rufous, with broad black stripe above, forehead, median stripe of ash gray, back, wing brown with numerous black streaks, rump, superciliary crest dirty ash gray, dirty black, molted with tipped white & gray. Head moderate, prominent maxillary, edged white, with a blackish line, gape & ear coverts blackish, a little white on the inner side. Feet are middle & inner toe black, outer toe under parts white, inner toe blackish.

13169 ✓ *Tijoua macrotarsus* ♂ 228  
brown | black | leaden

13170 ✓ *Myiodynastes adstantus* ♂ 197  
brown | black | leaden

\* 13171 ✓ *Tyrannus tyrannus* ♂ 210  
brown | black | leaden

13172 ✓ *Myiarchus cinerascens* ♀ 216  
brown | black | leaden

13173 ✓ *Myiarchus tuberculifer atriceps* ♂ 202  
brown | black | leaden

13174 ✓ *Myiodynastes leuciventris* ♂ 241  
brown | black | leaden

13175 ✓ " " ♂ 237

13176 ✓ *Chloronotus rubicinctus tucumanus* ♀ 236  
brown | black | leaden

\* 13177 ✓ *Piaya cayana obscura* ♀ 145  
cinnamon | blue | leaden

\* 13178 ✓ *Estimote decemlineatus* ♀ 263  
blue | pale greenish brown | black

24-10

24-10

+

13179 ✓ *Ceryle americana* ————— ♀ 198  
brown/black/black.

Entre Rios. Oct 21

Morning cold & cloudy, Temp. 17° Cent. I went back up Rio Sta Ana again today, covering thoroughly that whole section. Birds went down valley & then up south side of Sta Ana valley, along base of hills, on top of plateau, going as far as the break in hills to S.W. Back at 11 Am, Temp. 23° shade.

13180 ✓ *Myioborus b. brunneiceps*. (T.E.) ♂ 143  
brown/black/black.

13181 ✓ *Xanthomyias sclateri* (?) ♂ 133  
brown/black, leaden below/leaden.

13182 ✓ *Empidonax euleri argentinus* ♀ 135  
brown/black, flesh below/leaden.

13183 ✓ *Telmomyias sulphureus* ♀ 153  
gray/black, flesh below/leaden blue.

13184 ✓ *Elaenia parvirostris* (No. 12952) ♂ 150  
brown/black, flesh brown/leaden/black.

13185 ✓ *Lesbia sparganura* ♂ 125  
black/black.

13186 ✓ *Picumnus d'orbignyianus* ♀ 107  
brown/black, leaden blue below/brownish.

13187 ✓ *Xenops rutilans connectens* ♀ —  
brown/black, flesh below/leaden.

24-10

24-10

x

[94]

13188 ✓ *Cranioleuca pyrrhops striaticeps* (T.M.E.) ♂ 160  
(building nest)  
brown | black, bluish flush below, tip black | olive

13189 ✓ *Xolmis irupero* ♀ 188  
brown | black | black

13190 ✓ " " ♂ 189

13191 ✓ " " (T.M.E.) ♂ 190

13192 ✓ *Myiarchus tyrannulus chlorocephalus* ♀ 208  
brown | black | black

13193 ✓ " *tuberculifer atriceps* ♂ 197  
brown | black | black

13194 ✓ *Myiodynastes interventris* ♂ 232  
brown | black | leaden

\* 13195 ✓ *Tyrannus m. melancholicus* ♂ 232  
brown | black | black

13196 ✓ *Lepidocolaptes angustirostris hellmayri* (T.M.E.) ♂ 219  
brown | whitish brown, base above dusky | bluish olive

13197 ✓ *Veniliornis olivinus frontalis* ♂ 181  
brown | black, leaden blue below (partly) | leaden

13198 ✓ *Myiospiza humeralis humeralis* ♀ 134  
brown | bluish flush, ridge black | flush

13199 ✓ " " " ♀ 132

13200 ✓ " " " ♀ 134

13201 ✓ " " " ♂ 136

13202 ✓ " " " ♂ 137

25-10

25-10

+

↓ Mimos

13203 ~~Xiphi~~ saturninus modulator ♂ 252

dark greenish black, dusky flesh at base below black

13204 ✓ " " " ♀ 261

13205 ✓ " " " ♂ 258

13206 ✓ " " " ♀ 255

13207 ✓ Colymbigallina t. talpacoti ♂ 185

yellow dull blackish, pale at base below pink flesh

13208 ✓ Xiphocolaptes major castaneus (T.E.) ♂ 346

brown brown blue, dusky above olive

13209 ✓ Cryptorellus t. tataupa ♀ 260

brown dusky pink purplish drab.

Kilometer 75 (above Hosp. Val Narvaiz) 7000 ft.

Oct. 22.

Went in special truck up over mountains to place where  
I saw peculiar forest. Unfortunately, found birds very  
rare + not little of interest. Day clear + fairly cool

\* 13210 ✓ Troglodytes solstitialis frater ♀ 108

brown black, flesh below usually dusky flesh

13211 ✓ Myioborus b. brunneus ♂ 139

brown black, black

13212 ✓ Troglodytes musculus rex (T.E.) ♂ 130

brown black, flesh below basally

26-10

26-10

x

[95]

- 13213 ✓ *Mecocerculus l. leucophrys* ♀ 138  
brown | black | black
- 13214 ✓ " " " T.E. ♂ 142
- 13215 ✓ " " " ♀ 133
- 13216 ✓ *Cranioleuca pyrrhopia striaticeps* T.E. ♂ 146  
brown | black | black | blue
- 13217 ✓ *Spizos magellanicus bolivianus* ♂ 124  
brown | black apically, similar locally | black
- 13218 ✓ *Elaenia o. obscura* (No. 12403) ♀ 183  
brown | blackish, dusky | black | black
- 13219 ✓ *Pipracidoe melanonota venezuelensis* ♂ 152  
red-brown | black, pale brown below | dark brown
- 13220 ✓ *Knipolegus cabanisi* ♂ 168  
red-brown | brown blue, tip black | black
- 13221 ✓ " " " ♂ 123
- 13222 ✓ *Chloronotus rubiginosus tucumanus* ♂ 255  
brown | black | leaden

Note: Several specimens seen (1 shot) of *Syndactyla*, also  
*Chlorospingus ophthalmicus* (2) Sparrow Hawk (2)  
*Pygocichla patagonica*; *Swainson's cyanocephalus*;  
*Penelope* — (2) *Pompiza leucostriata* (S. Merced)

25-8

X

Entre Rios, Oct 23.

Day clear, morning quite cool, hot in P.M.  
I went down valley along slope at edge of town, to  
junction of Rio Sta Ana, then up Sta Ana to road  
& back to town. Birds crossed valley early town &  
worked down.

- 13223 ✓ *Geothlypis aequinoctialis velata* ♂ 141  
brown/black, black/flat below/brown/blue
- 13224 ✓ " " " " ♂ 140  
—/—, flat below/dusky flat.
- 13225 ✓ *Myiophobus fasciatus flammiceps* ♂ 140  
brown/black, dusky/flat below/black
- 13226 ✓ " " " " ♀ 140  
—/—, flat below/—
- 13227 ✓ *Catamenia a. analis* ♂ 136  
brown/yellow/black
- 13228 ✓ *Elania parvirostris* (det. 12952) ♂ 155  
brown/black, flat below/black
- 13229 ✓ " " " " ♀ 153
- 13230 ✓ *Satrapa icterophrys hallidayi* ♂ 174  
brown/black/black
- 13231 ✓ " " " " ♂ 173
- 13232 ✓ *Cyanocoryps cyanea argentina* ♂ 175  
brown/black, dusky blue at base below/black

- 13233 ✓ *Furnarius rufus paraguayae* (T. Fr.) ♂ 197  
brown | blackish, flesh below | dark brown
- 13234 ✓ *Turdus amaurochalinus* ♂ 235  
brown | <sup>dark</sup> yellowish, top blackish | blackish brown
- 13235 ✓ *Tyrannus<sup>m.</sup> melancholicus* ♂ 232  
brown | black | black.
- 13236 ✓ *Pitangus sulphuratus bolivianus* ♂ 261  
brown | black | black
- 13237 ✓ *Molothrus badius bolivianus* ♂ 200  
brown | black | black
- 13238 ✓ *Picumnus herbignyanus* ♀ 110  
brown | black, head blue, below (basally) leaden
- 13239 ✓ " " ♀ 108
- 13240 ✓ *Synallaxis frontalis* ♂ 160  
brown | blackish, pale brown blue below | dusky blue
- 13241 ✓ *Elaenia parvirostris* (No 12982) ♂ 160  
~~13241~~ brown | black, flesh below | black
- 13242 ✓ *Poespiza whitii* ♂ 149  
brown | black, pale brown below basally | blackish
- 13243 ✓ *Myiodynastes solitarius* ♂ 203  
brown | black | black
- 13244 ✓ " *luteiventris* ♂ 229  
brown | black, flesh at base below | blackish brown

X

✓ 13245 Pitangus sulphuratus bolivianus ♀ 250  
brown/black flesh

✓ 13246 Furnarius rufus paraguayae (T.E.) ♂ 208  
brown/blackish, flesh below mainly black/brown

✓ 13247 Melothrus b. bonariensis ♂ 205  
brown/black/black

✓ 13248 " " " ♀ 193

✓ 13249 Tailed Bat. 101-35-9-20-♀

|                             | <u>Total skins</u> | <u>Total spec</u> | <u>num spec.</u> | <u>Mammals</u> |
|-----------------------------|--------------------|-------------------|------------------|----------------|
| Rio Lujan (last collection) | 1782               | 264               | 175              | 53             |
| Entre Rios                  | 192                | 26                | 11               | 1              |
|                             | 1974               | 290               | 186              | 54             |

82 species collected for  
 30 " observed, but not collected  
 112



(22 specimens)

X

12:30 = 36° - suicide room.

1:30 P.M. = 43° outside in shade [97]

4 P.M. = 46° outside in sun (part overcast)

Villavieja, Oct 29. (2000 ft)

We both worked up along lower edge of foothills  
day frightfully hot. Got in about 10 AM.

13250 ✓ *Myiodinastes luteiventris* ♂ 240

brown/black, plub at base below/black

13251 ✓ " " ♀ 235

13252 ✓ " " ♂ 240

13253 ✓ *Poliopitila l. humicola* ♂ 132

brown/black, dusky below/brown

13254 ✓ " " " ♂ 130

13255 ✓ " " " ♀ 129

\*\* 13256 ✓ *Formicivora melanocephala iliaca* ♂ 152  
brown/black/black

13257 ✓ *Compsothlypis p. pitiaiyumi* ♀ 112  
brown/black, yellow plub below/yellowish brown

13258 ✓ *Euscarthnion m. margaritaceiventris* ♀ 113  
straw/brownish black, dusky plub base, locally pale purplish brown

13259 ✓ *Camptostoma obsolotum subsp.* ♀ 119  
brown/black, plub below, top black/brown black

13260 ✓ " " " ♀ 117

13261 ✓ *Phaeomyias m. murina* ♂ 132

brown/black, plub at base below/black

13262 ✓ " " " ♀ 128

(1-1)

1-1

+

- 13263 ✓ *Nyctophilus fuscatus flavimucops* ♀ 141  
brown/black, brownish black below black
- 13264 ✓ *Pteropus delugnyanus* ♀ 112  
brown/black, brownish black below black
- 13265 ✓ " " " ♀ 105
- 13266 ✓ *Elania parvirostris* (No. 12982) ♂ 159  
brown/black, black below black
- 13267 ✓ " " " (?) 160
- 13268 ✓ *Salpator aequantillaris* imm ♀ 210  
brown/dark yellow, ridge black/blackish
- 13269 ✓ *Empidonax aequantillaris-cristatus* ♀ 179  
brown/black/black
- 13270 ✓ " " " ♀ 189
- 13271 ✓ " " " ♀ 189
- \* 13272 ✓ *Salpatorica multicolor* ♀ 181  
brown/yellow, ridge black/pale-brown
- \* 13273 ✓ *Nyctophilus pelzelni fuscus* (?) ♂ 211  
brown/dark brown, paler brown below black  
tail mostly black; upper part olive green
- 13274 ✓ *Phacellodanus retirostris sinopitulis* ♂ 189  
gray/black, leaden blue below leaden blue
- 13275 ✓ " " " ♂ 189
- 13276 ✓ " " " ♀ 185

3-2

13277 ✓ *Spirus neochlamias allani* ♀ 119

brown | black horn, <sup>horn blue</sup> pale below | black

13278 ✓ " " " ♀ 121

\*\* 13279 ✓ *Cassidix rufa* ♂ 197

brown | black horn, black apically | black

13280 ✓ " " " ♀ 195

13281 ✓ *Mimus triurus* ♂ 245

greenish yellow | black, horn blue at base below | black

13282 ✓ *Macheteris rixosa* ♂ 196

hazel | black | black

(13283 *Turdus amaurochalinus* T.E. ♂ 239)

brown | yellow | black horn

13284 ✓ *Phaethicus a. aurantiventris* ♀ (?) 218

brown | black, horn blue below | horn

13285 ✓ *Phytoloma rutila* ♂ 191

brown | black horn blue below | black

\*\* 13286 ✓ *Neophloeotomus cholzi* ♂ 362

black above | blackish, black horn | dark leaden

lined, white below & narrow, narrow stripe red; auricular to eye, white gray; lower buffy yellow; white

stripe from lower back to lower neck, where they meet; rest of upper parts, lower parts (except

throat) brown & tail black; throat dirty white

inner wing coverts (except outer greater one) & basal portion of wing quills (coverts) pale sulphur

5-4 | 9<sup>45</sup> Am. inside room = 28°  
 12 M. " " = 29<sup>1</sup>/<sub>2</sub> °  
 1 P.M. " " = 30<sup>1</sup>/<sub>2</sub> °  
 8 " " " = 29 °

Villa Monte, Oct. 30

We both worked over, across flying field &  
 into woods which extend back to mountains.  
 Started out at 5<sup>45</sup> & back at 9 Am. Morning cool &  
 cloudy, after slight shower last night at 9<sup>30</sup> P.M.

- 13287 ✓ *Leptocoma* 343 - -77 -58 - - ♀
- 13288 ✓ *Fischerthornis mimargariteiventris* ♀ 119  
 straw/blackish, dusky flesh below purplish brown
- 13289 ✓ " " " " T.M.E. ♂ 119
- 13290 ✓ *Formicivora melanogaster iliaca* ♂ 150  
 brown/black leaden
- 13291 ✓ " " " " ♂ 140
- 13292 ✓ " " " " ♀ 139  
 — black, bluish flesh below —
- 13293 ✓ " " " " ♀ 140
- 13294 ✓ *Thamnophilus caerulescens dipellii* ♂ 164  
 brown/black, leaden blue below leaden blue
- 13295 ✓ *Myiophobus fasciatus flammeiceps* ♀ 130  
 brown/black, dusky flesh below black
- 13296 ✓ *Myiochanes richardsoni* ♀ 141  
 brown/black, yellow flesh below black
- 13297 ✓ *Elania parvirostris* (12982) ♂ 158  
 brown/black, flesh below, top black/black
- 13298 ✓ " " " " ♀ 148
- 13299 ✓ " " " " ♂ 152
- 13300 ✓ " " " " ♂ 156
- 13301 ✓ " " " " ♀ 157

5-4

Crz Carmona  
Mendoza

[99]

13302 ✓ Sittasomus g. griseicapillus ♀ 151  
brown/black, leaden blue below/leaden

13303 ✓ Arremon flavirostris orbignii (T.E.) ♂ 163  
brown/yellow, ridge black/whitish horn

13304 ✓ Saltator multicolor ♀ 173  
brown/yellow, ridge black/whitish horn

13305 ✓ " " ♂ 158

13306 ✓ Saltator a. aurantirostris ♀ 211  
brown/blackish, yellow below, dusky on sides/blackish horn

13307 ✓ Cassin's rufa ♀ 180  
brown/flesh basally, black apically/leaden black

13308 ✓ " " ♂ 195

13309 ✓ Piranga flava flava ♂ 193  
brown/black, olivaceous leaden below/dark horn

\* 13310 ✓ Elaenia spectabilis ♀ 184  
brown/black, flesh at base below/black

13311 ✓ Myiarchus pelzelni ferocior (M) ♂ 214  
brown/black, dusky flesh below basally/black

13312 ✓ " tyrannulus chlorci ♂ 209  
brown/black/black

13313 ✓ Lepidocolaptes angustirostris hoffmanni ♀ 204  
brown/whitish flesh, very max dusky on sides/leaden

13314 ✓ Pitangus sulphuratus bolivianus ♀ 238  
brown/black/black

6-4

12 M. monte = 330  
230 P. M. " = 33 1/2

X

6-4

- 13315 ✓ *Turdus amaurochalinus* ♂ 240
- 13316 ✓ brown | yellow | lead blue T.E. ♂ 238
- \* 13317 ✓ *Ceophloeus l. lineatus* (?) ♂ 350  
bluish white | blackish, bluish flesh below, top black | leaden
- 13318 ✓ *Pionos bridgesi* ♂ 301  
pale hazel | black, top yellow | dirty blackish

(18 additional specimens)

Villa Monte, Oct. 31.

I worked down river, below the town. Part of monte with rather large areas, scattered through the smaller growth, & these mostly with few leaves. Much thick, thorny scrub with no place & many little fields enclosed with <sup>thorn</sup> brush fences. Bents worked up river, none flying field.

- 13319 ✓ Saltator <sup>C</sup> caeruleus ♀ 232  
brown black | dark blue lead
- 13320 ✓ *Chloronotus rubiginosus tucumanus* (T.E) ♂ 254  
brown black | leaden
- 13321 ✓ *Euscarthmus plumbeiceps lividiceps* ♀ 102  
brown black | leaden
- 13322 ✓ " " " ♂ 107
- 13323 ✓ *Euscarthmus m. margaritaceiventris* ♀ 113  
straw-purplish black, purplish flesh below | purplish lead
- 13324 ✓ *Aethlypis equinoctialis velata* ♂ 140  
brown black, flesh below | pale lead

7-4

7-4

[100]

+

- 13325 ✓ *Poliophtila d. demissa* (T.E) ♂ 129  
brown | black, leaden at base below | leaden black
- 13326 ✓ " " " " ♂ 129
- 13327 ✓ *Formicivora melanogaster iliaca* ♂ 138  
brown | black | leaden
- 13328 ✓ " " " " ♀ 143  
— | —, bluish pink below | leaden
- 13329 ✓ *Empidonax euleri argentinus* ♂ 146  
brown | black, pink below | black
- \* 13330 ✓ *Cnemotriccus fuscatus bimaculatus* ♀ 157  
brown | black, pink at base below | black.
- 13331 ✓ " " " " ♀ 154
- 13332 ✓ " " " " (T.E) ♂ 167
- \*\* 13333 ✓ *Picumnus erythrotus gilcomayensis* (?) ♀ 103  
brown | black, sides below broadly lemon blue | leaden.  
(entire under parts white, with broken bars on sides of breast, sides of body + flanks)
- 13334 ✓ *Tanagra aurea serrirostris* (T.E) ♂ 113  
brown | black, leaden below | leaden
- 13335 ✓ *Empidonax aurantio-atro-cristata* ♀ 182  
brown | black | black
- 13336 ✓ *Myiarchus polzelnii toroctor* ♂ 208  
brown | brownish black, pale brown below | black
- 13337 ✓ *Thraupis sayaca* ♂ 182  
brown | black, base above mand. leaden blue | leaden

9-5

9-5

x

13338 ✓ *Furnarius rufus paraguayae* (J.M.E) ♂ 200  
brown/black, flesh below/dark brown

13339 ✓ *Cyanocampylus cyaneus argentina* ♂ 185  
brown/black, pale brown below laterally/brown

13340 ✓ *Cassidix rufus* ♂ 193  
brown/flesh laterally, black apically/leaden black

13341 ✓ " " ♀ 190

13342 ✓ " " ♂ 176

13343 ✓ *Veniliornis olivinus frontalis* ♂ 180  
brown/black, horn blue below/leaden

13344 ✓ " " " ♀ 178

13345 ✓ " " " ♀ 178

13346 ✓ *Passer* ~~sp.~~ sp. (same as *g. phoca* *Bonap.*) (J.M.E) ♂ 165  
brown/black/brown horn

\*\* 13347 ✓ *Paroaria coronata* ♀ 190  
brown/blackish, flesh below/blackish

13348 ✓ *Teterus p. pyrropterus* ♀ 201  
brown/black/black

\*\* 13349 ✓ *Amblycoelus solitarius* ♀ 257  
brown/pale sea-green, bluish above/black

\* 13350 ✓ *Alcedo b. brasilianum* ♂ 174  
yellow/pale sea-green/yellowish olive

13351 ✓ *Crypturellus talacopa* (M) ♂ 250  
brown/pinkish red/pale dull purple

12-7



11<sup>20</sup> Am. = 23½° X Cloudy & cool all morning,  
some rain during night.

12-7

(11 additional species)

[101]

Villa Monte, Nov. 1.

We both went east, down river & worked in  
woodland. Many tall, wide spreading acacias &  
other rather tall, scattered trees, as well as low tangled  
thorny scrub & vines.

13352 ✓ Saltator <sup>c.</sup> caeruleus brown | black | dark brown. ♂ 240

\*\*  
13353 ✓ Hylochoeris c. chrysurus pink flesh tip black | black. ♂ 98

13354 ✓ " " " " ♂ 98

\*\*  
13355 ✓ Stigmatura budytes <sup>oid</sup> inzonata brown | black | black ♀ 143

13356 ✓ Thlypopsis s. sordida brown | leaden blue, ridge black | leaden blue ♂ 145

13357 ✓ Sornallaxis scotata whitii hazel | black, leaden blue | bluish blue ♂ 154

13358 ✓ " " " " ♂ 157

13359 ✓ Xenops rutilans connectens brown | black, pl. below normally | leaden ♀ 132

13360 ✓ Cnemotricus fuscatus bimaculatus (M) ♂ 163  
brown | black, pl. at tan below | black

13361 ✓ " " " " ♀ 153

13362 ✓ " " " " ♀ 150

13363 ✓ " " " " ♀ 154

14-9

14-9

x

- \*\*  
13364 ✓ *Thamnophilus dolosus radiatus* ♂ 177  
yellow/black, leaden blue below | leaden
- 13365 ✓ " " " ♀ 175  
black | leaden blue, top of ridge, black | leaden blue
- 13366 ✓ " " " ♀ 178  
black, leaden blue below | —
- 13367 ✓ *Taraba majoris kriegi* ♂ 222  
brown | black, leaden at base below | leaden blue
- 13368 ✓ *Myrmochilus strigilatus* <sup>ft. campus</sup> <sub>picax</sub> ♂ 168  
brown/black | leaden blue
- 13369 ✓ *Phacellodomus rufifrons sinuipitatis* ♀ 179  
gray/black, leaden blue below | leaden blue
- 13370 ✓ *Empidonax auranticeps cristata* ♀ 184  
brown/black | black
- 13371 ✓ " " " " ♀ 191
- 13372 ✓ *Petroica coronata* ♂ 193  
brown/blackish brown, bluish pink below | black
- 13373 ✓ " " " " ♂ 196
- 13374 ✓ " " " " ♂ 195
- 13375 ✓ *Casiornis rufa* ♀ 187  
brown/pink base, black apically | black
- 13376 ✓ *Nystatus maculatus striatipennis* ♂ 215  
black | brown, ridge & base black, black | dirty blue

15-10

15-10

+

[102]

- 13377 ✓ Icterus p. pyrrhopterus ♂ 204  
brown | black | blackish horn
- 13378 ✓ " " " " ♀ 187
- \*\* 13379 ✓ Dendrocolaptes pallescens ♀ 290  
brown | pale horn blue, base of max. blackish | olive leaden
- 13380 ✓ Scapanes leucopogon ♂ 320  
yellow | old ivory | leaden

Villa Montes, Nov. 2.

It rained all forenoon today, so we could not go shooting. I, also, was sick from something I ate. I wrote up labels to date & Bertr. did old jobs.

~~more species~~

Villa Montes Nov 3.

I was still too ill to go shooting, very weak, having eaten nothing yesterday but a little soup, & was up all night from phlegm. Bertr. went out as usual, but had rather poor luck, went down & circled around the mouth of town & in several places.

- 13381 ✓ Pooecetes torquata pectoralis ♀ 128  
brown | black, dark horn blue | blackish horn
- 13382 ✓ Spizoc magister albi ♂ 118  
brown | black, leaden horn blue | black
- 13383 ✓ Myiarchus strigatus superciliosus ♂ 174  
brown | black | leaden blue.

- 13384 ✓ Paroaria coronata ♀ 189

16-11) brown | flesh, ridge yellowish blackish | black

16-11

x

- 13385 ✓ *Aspilota venus retiformis simplicitalis* ♂ 176  
gray/blackish, head blue below / head blue
- 13386 ✓ " " " " ♂ 181
- 13387 ✓ *Pachytrichus v. viridis* ♂ 167  
brown / head blackish / head black
- 13388 ✓ *Empidonax auratus* ♀ 192  
brown / black / black
- 13389 ✓ *Xelminis inornata* ♀ 190  
brown / black / black
- 13390 ✓ *Casioneus rufus* ♂ 188  
brown / black / black / head black
- 13391 ✓ " " " ♀ 195
- 13392 ✓ " " " ♀ 185
- \* 13393 ✓ *Colletes rotunda cylindrica* ♂ 335  
brown / black / purple
- 13394 ✓ *Tropocoris vancouveri* ♀ 273  
brown / head blue, ridge black / blackish

The stomachs of several *Casioneus rufus*, contained beetles + much digested remains of other smallish insects, also each of three examined contained a hard seed, long + slender + slightly curved + very hard, with rough surface (P)

17-11

17-11  
11 additional  
specimens

\*

[103]

Villa Montes, Nov 4

Both of us went shooting today. I fell a bit worked out but made out very well, getting 15 birds (1 new). I went down river & back over up into foothills. Day pretty cloudy & fairly cool.

13395 ✓ *Hylachanis olivacea* ♂ 102  
pink flesh | black

13396 ✓ *Serpophaga immanata* ♀ 110  
brown | black | black

\* 13397 ✓ *Floricada pica albiventer* ♂ 153  
brown | black | black

13398 ✓ *Fornicivora melanogaster iliaca* ♂ 144  
brown | black | leaden.

13399 ✓ " " " " ♂ 146  
im

13400 ✓ " " " " ♀ 137  
— | —, blue flesh below | —

13401 ✓ *Synallaxis scotata whitii* ♀ 151  
brown | black, leaden below | pale olive.

13402 ✓ *Synallaxis frontalis fuscipennis* ♀ 167  
brown | black, pink flesh below | olive

13403 ✓ *Myrmochilos strigilatus suspirax* ♂ 165  
brown | black | leaden blue

13404 ✓ " " " " ♀ 165  
— | —, brown blue below | brown blue

18-11

18-11

+

- 13405 ✓ *Snematorus fuscatus lineator* ♂ 160  
brown/black, black at base of tail black
- 13406 ✓ " " " " ♂ 156
- \* 13407 ✓ *Arremonops pilcata paraguayensis* ♂ 143  
greenish yellow
- 13408 ✓ *Tanagra major pringi* ♂ 222  
carmine/black, carmine at base of tail (black) carmine
- 13409 ✓ *Vireo ichthya* ♂ 148  
brown/black, black at base of tail black
- 13410 ✓ " " " " ♀ 143
- 13411 ✓ *Empidonax aurantio-olivaceus* ♀ 192  
brown/black black
- 13412 ✓ *Setophaga ruticilla* (T.M.E.) ♂ 212  
brown/black, dusky brown
- 13413 ✓ " " " " ♀ 203  
egg on way
- 13414 ✓ *Tanagra axillaris setirostris* ♂ 105  
brown/black, carmine blue below (black) black
- 13415 ✓ *Casiornis vofsi* ♀ 182  
brown/black, black apically blackish
- 13416 ✓ *Myiarchus pelzelni forsteri* ♂ —  
brown/black, brown/black
- 13417 ✓ *Mimus saturninus modulator* ♂ 260  
greenish yellow/black/black

19-11

19-11

[104]

↑ 437

13418 ✓ *Merisotus moneta pilcomajensis*  
red | black | dirty black.

13419 ✓ *Xiphocoloptes major castaneus* ↑ 326  
brown | pale brown, brown blue below; tip blackish | bluish blue

13420 ✓ *Cocophleps lineatus lineatus* ♂ 350  
white | pale brown, ridge black, pink flesh below | dirty lead

13421 ✓ *Amazona aestiva xanthopt.* (M) ♂ 385  
orange | black | dirty blackish

13422 ✓ *Pyrrhura molinae* (NI) ♂ 280  
brown | black | black

Nov. 5

Additional species

Went swimming in forenoon, some bathing & packed birds in P.M.

Villa Montes, November 6

Beto crossed Palcazuca River today & worked up to bridge & down the north side, while I worked over the big open pampa east of town & in open acacia woods around the edges.

Day cool & cloudy till noon.

13423 ✓ *Hylachanis chryseus* ♂ 95  
pink flesh, tip black | black

13424 " " T.E. ♂ 106

13425 " " T.E. ♂ 104

13426 ✓ *Chlorostilbon aureiventris* ♀ 95  
black, pink below, tip black | black

13427 ✓ *Helimaster furcifer* ↑ 132  
black | black

19-11

19-11

13428 ✓ *Serpophaga imerota* ♂ 112  
brown/black / leaden

13429 ✓ *Saltator aurantivestris* ♂ 206  
brown / orange / dark brown

13430 ✓ *Saltatoricola multicolor* ♂ 165  
brown / yellow / ridge black / pale brown / brown

13431 ✓ " " ♀ 173

13432 ✓ " " ♂ 175

13433 ✓ " " ♂ 169

13434 ✓ " " ♂ 186

13435 ✓ *Thraupis b. binariensis* imm ♂ 173  
brown / black / pink / brown / dusky / tan

\*\*  
13436 ✓ *Myiarchus cinerascens* ♂ 263  
brown / black / leaden black

\*\*  
13437 ✓ *Myiarchus cinerascens* (M) ♂ 330  
brown / blackish brown / black below / pink

13438 ✓ *Geothlypis leucostriata velata* ♂ 134  
brown / black / black below / pale brown

13439 ✓ " " ♀ 135

13440 ✓ *Spinus magellanicus alleni* ♀ 115  
brown / blackish brown / pale brown below / pale brown

13441 ✓ " " ♀ 110

21-13



21-13

[105]

13442 ✓ *Paroaria coronata* ♂ 195  
brown | black (fluff, ridge blackish brown) | blackish

13443 ✓ " " " ♂ 188

\*\* 13444 ✓ *Platypsaris rufus audax?* (T.M.E.) ♂ 198  
brown | black, leaden below | leaden

\*\* 13445 ✓ *Columba picazuro* ♀ 355  
orange | black | pinkish blood  
whole head & neck unmarked, with pileum & nape slaty;  
neck blacked on sides & back; whole of greater wing  
coverts broadly edged with white; all the rest of  
coverts narrowly edged with dirty to buffy white  
rump & upper tail coverts slate gray, also crescents,  
tail black; primaries slaty gray; under parts  
ashy buff.

13446 ✓ *Columba rufina sylvestris* ♀ 326  
orange | black | cinnamon red

13447 ✓ *Scapanus leucopogon* juv ♂ 325  
bluish white | bluish gray | leaden

13448 ✓ *Sicalis p. pelzelni* ♂ 133  
brown | black, hair blue below | dusky brown

13449 ✓ " " " ♀ 138

23-15

4 additional  
specimens  
23-15

Villa Monte, Mex.

Clear & very hot today, hottest any since the first two days here. W. with wind from N to the east. Birds scarce (good ones) & none on the ground. I got lost at 1 pm with tongue hanging out.

13450 ✓ *Polioptila dumicola* (T.E.) ♂ 130  
brown | blackish below | leaden

13451 ✓ *Euscarthmus m. margaritaceiventris* ♀ 117  
straw | brown black, paler below | purplish horn.

\* 13452 ✓ *Euscarthmus m. melorhynchus* ♀ 115  
brown | blackish, flesh below | pale leaden blue

13453 ✓ *Stigmatura budytoides inzonata* ♀ 155  
brown | black | leaden

13454 ✓ *Empidonax euleri argentina* ♂ 152  
brown black, flesh below | black

13455 ✓ *Myrmochilus strigilatus suspicax* ♀ 171  
brown | black, bluish flesh below | basally | leaden blue

13456 ✓ " " " " ♀ 170

13457 ✓ " " " " ♀ 168

13458 ✓ *Picumnus d'arbigyanus* ♂ 101  
brown black, bluish flesh below | basally | leaden

13459 ✓ *Paroaria coronata* ♀ 190  
brown | flesh, ridge, blackish | blackish horn

24-15

24-15

[106]

- 13460 ✓ *Thamnophilus doliatus radiatus* ♂ 180  
brown | black, leaden blue below | leaden blue
- 13461 ✓ " " " ♀ 185
- 13462 ✓ " " " ♀ 182
- 13463 ✓ *Elaenia parvirostris* (Fasciata) ♂ 158  
brown | black, flesh below locally | black
- 13464 ✓ *Pachyrhamphus v. viridis* ♀ 165  
brown | black, leaden blue below | leaden
- 13465 ✓ *Lichenops porpicillata* ♀ 158  
yellow- | pale yellow, ridge + tip below black | black
- 13466 ✓ *Phacellodomus rotitrens sinuipitalis* ♂ 182  
hazel | black, leaden blue below | leaden
- 13467 ✓ *Casiornis rufa* (T.E.) ♂ 187  
brown | flesh locally, black apically | black.
- 13468 ✓ " " " ♀ 190
- \*\* 13469 ✓ *Cyclarhis gujanensis viridis* ♂ 181  
orange | brown horn, leaden blue below locally | leaden blue
- 13470 ✓ *Empidonax aurantio-atro-cristatus* ♂ 188  
brown | black | black.
- 13471 ✓ *Myiarchus pelzelni ferocior* ♂ 208  
brown | black with horn, brown horn below | black
- 13472 ✓ " " " ♂ 210
- 13473 ✓ " " " ♂ 215

25-16

25-16

+

13474 ✓ *Myiodiastor luteiventris* ♀ 231  
brown \ black, flesh basally, below \ bladen

\*\*  
13475 *Ortalis c. canicollis* ♂ 608  
brown \ brown horn, pale below \ gape + throat pink \ bluish flesh

26-17

|                | Total skins | Species | New | Minerals |
|----------------|-------------|---------|-----|----------|
| Ecatepec Rio = | 1974        | 290     | 186 | 54       |
| Villa Montes = | 226         | 26      | 17  | 1        |
|                | 2200        | 316     | 203 | 55       |

91 species collected.  
25 " observed (not collected)

Villa Montes, Nov. 8 (Sunday)

Packed beds & equipment, expect to leave here tomorrow

Villa Montes, Nov. 9.

Truck failed to materialize, got word at 1:30 P.M. that we would start tomorrow morning early.

Villa Montes to Camiri, Nov. 10

Started by truck at 7:30 & reached Camiri at 7:30 P.M.

Camiri to Lagunillas, Nov. 11.

Found the meaning that collecting conditions around Camiri are so bad that it is not worth a while stopping here. Left at 9 AM. Lost an hour in Choretas, opposite side of Rio Parapatis, arrived Lagunillas at about 1 P.M.

Went out shooting in evening with Sub. Kuper on horseback, got back about 7 P.M. shooting the following 3 specimens:

13476 ✓ *Setopagis p. parvula* ♂ 216  
brown \ black \ brown horn

13477 ✓ *Kenelope obscura bridgesi* ♂ 817.  
brown | black | brownish black | throat red.

13478 ✓ " " " " ♂ 818  
(3500ft) [107]

Laguillas, Prov. Cordillera, Dept. Sta Cruz.  
Nov. 12

Left Puerto in to skin last night but to give  
his injured leg chance to get better. I went down  
valley from village, in scrub & low thorny woods.

13479 ✓ *Poliopitita d. dumicola* (T.E) ♂ 130  
brown | black, leaden below

13480 ✓ " " " " ♀ 120

13481 ✓ *Geothlypis aequinoctialis velata* ♀ 136  
brown | black, pl. below | pal. horn.

13482 ✓ *Stigmatura h. bidytoides / nzonata* ♂ 160  
brown | black | leaden

13483 ✓ *Phaeomyias m. murina* ♂ 133.  
brown | black, pl. below, tip black | black

13484 ✓ " " " " ♀ 128

13485 ✓ *Thlypopsis s. sordides* ♀ 145  
brown | black, throat & rear leaden blue | leaden blue

13486 ✓ " " " " ♂ 148

13487 ✓ *Myrmochilus strigilatus suspicax* ♀ 170  
brown | black | leaden blue below | pal. leaden blue

13488 ✓ *Taraba major Kreigi* ♂ 220  
carmine | black, leaden at base below | leaden blue

13489 ✓ *saltator bolivianus aurantirostris* ♂ 209  
brown | orange | dark horn

- x
- 13490<sup>✓</sup> *Coccyzus melacoryphus* ♀ 278  
brown | black | blackish tan
- 13491<sup>✓</sup> " " ♂ 270
- 13492<sup>✓</sup> *Myiarchus pelzelni feliceior* ♂ 203  
brown | brownish black, brown below | black
- 13493<sup>✓</sup> *Cyanocampus cyaneus pelioogastra* ♂ juv 172  
brown | black | black
- 13494<sup>✓</sup> *Cyclarhis gujanensis viridis* ♂ 167  
yellow | brown tan, leaden blue below | leaden blue
- 13495<sup>✓</sup> *Zenotrichia capensis hypoleucos* ♀ 155  
brown | black, pale tan below | pale tan
- 13496<sup>✓</sup> " " " ♂ 153
- 13497<sup>✓</sup> *Mimus saturninus modulator* ♂ 266  
greenish yellow | black | black
- 13498<sup>✓</sup> *Phaeothodopus rutifrons sinuipitalis* ♀ 183  
gray | black, leaden blue below | pale tan
- 13499<sup>✓</sup> *Nystalus maculatus striatipennis* ♀ 205  
yellow | dull red, ridge & long mand. black | dirty above
- 13500<sup>✓</sup> *Aratinga m. mitrata* ♂ 368  
yellowish brownish above, dirty flesh
- 13501<sup>✓</sup> " " " ♀ 358



1-1

+

Day clear & hot, clouded up a bit about 10 Am, with breeze, but later clouds broke up.

[108]

Lagunillas, Nov 13

Birds about out today, working out in valley below pueblo, actually worked back in little valley running back into hills just below the town. Hundreds of Hawks of 2 species are here today feeding on the locusts, in the air. Was not able to shoot any.

13502 ✓ *Chlorostilbon aureoventris* ♂ 93  
pink, top black | black.

13503 ✓ *Leucippus chionogaster hypoleucus* ♀ 116  
black, flab below, top black | black.

13504 ✓ *Campephilus p. pitiauyumi* ♀ 112  
brown | black, yellow flab below | brownish yellow

13505 ✓ *Aeothlypis aequinoctialis velata* ♂ 135  
brown | black, flab below | pale brown

13506 ✓ *Phaeomyias m. murina* ♂ 130  
brown | black, flab below (brown) | black

13507 ✓ " " " " ♀ 129

13508 ✓ *Empidonax euleri argentia* ♀ 139  
brown | black, flab below | black

13509 ✓ *Capsiempis f. flavicollis* ♂ 131  
brown | black, flab below (brown) | black

13510 ✓ *Elanoides v. viridicatus* ♂ 147  
brown | black | flab below (black) | leaden black.

13511 ✓ " " " " ♂ 148

1-1

1-1

\*

13512 ✓ *Elaenia parvirostris* (Forsk. *Campor*) ♂ 147  
brown/black, flesh below basally, black

13513 ✓ *Salpator <sup>c.</sup> acuminatirostris bolivianus* ♂ 215  
brown/orange/dark brown

13514 ✓ *Salpator <sup>c.</sup> caerulescens* ♂ 237  
brown/blackish/dark brown

13515 ✓ *Thlypopsis s. scardidus* ♂ 150  
brown/black, leaden blue below, leaden blue

\* 13516 ✓ *Pregna tapera fusca* ♀ 177  
brown/black/black

13517 ✓ *Coryphospingus cucullatus* ♂ 140  
brown/blackish, brown blue below, leaden brown

13518 ✓ *Myiospiza humeralis humeralis* ♂ 135  
brown/blackish, flesh black (inner) flesh

13519 ✓ *Phacellodendrus rufifrons sinuipitalis* ♀ 175  
gray/black, leaden blue below, leaden blue

13520 ✓ " " " " ♂ 176

13521 ✓ *Cassinia rufa* ♂ 200  
brown/flesh, faintly black, greenish (brown)

13522 ✓ *Empidonax curvirostris - atre -* ♀ 182  
brown/black/black

13523 ✓ *Furnarius rufus commersoni* ♂ 203  
brown/black, flesh below, brown/blackish brown

13524 ✓ " " " " ♂ 201

2-1



2-11

x

[109]

13525 ✓ *Minus saturninus* ♀ 255  
greenish yellow | black | black

13526 ✓ *Molothrus b. b. naricensis* ♀ 193  
brown | black | black

13527 ✓ *Veniliornis olivinus frontalis* ♂ 179  
brown | black, brown below | leaden

13528 ✓ *Momotus monacha pilosus* ♂ 415  
brown | black | dark brown

13529 ✓ *Falco sparverius* ♀ 270  
brown | olive blue breast, black apically | yellow

13530 ✓ *Cyanocorax cyanocephalus* ♂ 385  
brown | black | black

13531 ✓ *Cryptorhynchus tataupa* (?) (T. ♂) ♂ 245  
brown | green, tip dusky | purplish

Lagunillas, Nov. 14.

Birds were saved along part of hills & cliffs & about everything there except the 2 ducks, *Anas*, the Heron & the Catamans. Saved with food on mud-bank across valley to east, to some ponds at edge hills, ponds formed by heavy rain of last night.

\*\* 13532 ✓ *Syrigma sibilatrix* ♀ 600  
pale blue | lilac, tip black & breast side blue | black  
skin around eye sky blue

3-2

32

X

\*\* 13533 ✓ *Anas leucophrys* (T.S.E.) ♂ 375

brown leaden blue, nail black | flesh.

13534 ✓ " " (M) ♀ 370

— brown, with lunula & band across tip leaden blue, nail brown, below flesh | flesh.

13535 ✓ *Anas aestiva xanthropteryx* ♀ 365

orange | black | flesh.

white front face, back yellow, head orange  
+ a small eye, scapular with yellow & blue  
all of body green, upper parts with lighter green  
with black. Primaries & secondaries black, feet with  
blue on outer web, & inner basal, a red patch on  
base of outer web, tail red brown, green band  
across middle & tip with yellow.

13536 ✓ *Chloritis leucophaea* ♂ 98

pink flesh, tip black | black

13537 ✓ *Coturnicops annualis* ♀ 127

brown | black, flesh black | black

\*\* 13538 ✓ *Tricathraupis melano ps* ♀ 180

brown | black, leaden blue tail, leaden blue  
dark brownish blue, yellow green above,  
orange tail black, with under wing coverts &  
base of wing mostly brown, mostly white;  
tail black; below red brown, dusky

13539 ✓ *Icterus parisorum* ♀ 218

brown | black | leaden brown

13540 ✓ " " ♂ 205

54

5.4

X

[110]

13541 ✓ *Lepidosteptes angustatus* *hellmayri* ♂ 220  
brown | more hair, faintly dusky above | denticulate

13542 ✓ *Glaucothemis brasiliensis* ♂ 172  
yellow | yellowish apically, more black | plain

13543 ✓ *Trogonoides variator* *heali* ♀ 273  
brown | brown above, more brown | brown

13544 ✓ *Setopagis papuana* T.E. ♂ 218  
brown | black | brown

\*\* 13545 ✓ *Antrostomus r. rufus* ♀ 293

brown | brown, top black | brown  
Tarsus brown above, streaked with black; below  
tarsus cinnamon, basal 2 segments with black,  
Ventral patch ochraceous; perianth + tail + eye, tubular  
+ lower mandible with brownish suffrage. Tail  
cinnamon, denticulate.

13546 ✓ " " ♂ juv 170

Saguillas, Nov. 15 (Sunday)

We both went over to the ponds on opposite sides  
of the valley, working along base of hills & around  
ponds. Day clear & very hot & humid.

13547 ✓ *Camptostoma obscurum* ♂ 128  
brown | black, black at base below | black

13548 ✓ *Myiophaps fasciatus* *flaviceps* ♂ 138  
brown | black, brownish flesh below

[6-5]

6-5

X

- \*\* 13549 ✓ *Buteoides striatus cyanurus* ♂ 140  
yellow/black, blue green below / brownish white
- 13550 ✓ *Stigmatera budytoides inzonata* ♀ 155  
brown/black/lead
- 13551 ✓ *Fluvicola pica* ♀ 147  
brown/black/black
- 13552 ✓ *Elaenia v. viridicata* ♂ 145  
brown/black, feet at base (blue) / dark brown
- 13553 ✓ " " " ♂ 150
- 13554 ✓ *Troglodytes musculus* ♂ 125  
brown/black, feet below / dusky brown
- 13555 ✓ *Thlypopsis s. sordidus* ♂ 148  
brown/black, feet blue below / leaden blue
- 13556 ✓ *Coccyzus melacoryphus* ♂ 272  
brown/black/lead brown
- \*\* 13557 ✓ *Micrococcyx cinereus* ♀ 227  
red (above) / black / leaden brown
- 13558 ✓ *Stelgidopteryx serripennis* (T.E.) ♂ 149  
brown/black/black
- 13559 ✓ *Progne subis f. f. f.* (T.E.) ♂ 123  
brown/black/black
- 13560 ✓ *Elaenia spectabilis* ♀ 188  
brown/black, feet below locally / black

8-7

8-7

[11]

13561 ✓ *Empidonax auranti-croceus* — ♂ 202  
brown | black | black

\* 13562 ✓ *Thaupis banariensis darwini* ♀ 195  
brown | black, flesh blue | dusky | leaden | leaden blue

13563 ✓ *Furnarius rufus commersoni* ♂ 197  
brown | blackish, flesh below, ten dark | dark brown

13564 ✓ " " ♂ 193

13565 ✓ *Alyidornastes luteiventris* ♀ 241  
brown | black, flesh below white | leaden

Lagunillas, Nov. 16

Bertie went down valley along west side, while I worked up the canyon into the hills which open out just below the terracing.

Day clear & very hot. I found running water up near head of canyon & considerable humid vegetation in bottom. Up there I find *Basilentemus*, *Thryothorus*, *Hesperidichmus* & *Syndactyla*, only place they were seen here.

13566 ✓ *Camptosternum obsolatum* — ♂ 127  
brown | black, flesh below, tip dusky | black

13567 ✓ *Hesperidichmus pileatus atricapillus* ♀ 138  
brown | black, bluish flesh below | leaden blue

13568 ✓ *Basilentemus bivittatus* ♂ 155  
brown | black | yellowish brown

9-7

9.7

13569 ✓ Stigmatera budytoidea <sup>inzeata</sup> ♀ 149  
brown/black/leaden

13570 ✓ " " " ♂ 156

13571 ✓ Elenca viridicata ♂ 157  
brown/black, dusky flab below basally/leaden

13572 ✓ Myiobanes richardsoni ♂ 156  
brown/black, dusky flab below/black

13573 ✓ Nymphilus strigilatus <sup>suspicius</sup> ♀ 169  
brown/black, flab/flesh along torus/pale leaden blue

\* 13574 ✓ Thaumophloeus delictus <sup>subradiatus</sup> ♂ 179  
straw/black, leaden blue brown/leaden blue

13575 ✓ Taraba nigra <sup>kriegi</sup> ♂ 218  
carmine/black, /leaden blue

13576 ✓ Phytotoma <sup>cutila</sup> ♀ 204  
yellow/dark brown/black flab below basally/leaden

13577 ✓ Syrdactyla rufoscapularis <sup>long</sup> ♂ 195  
brown/black, flab below/olive

13578 ✓ " " " ♂ 200  
— | — — | leaden brown

13579 ✓ Cyanecompso yarea <sup>pedicellata</sup> ♂ 164  
brown/black, brown brown at base/black

13580 ✓ " " " ♂ 182

13581 ✓ Stelgidopteryx <sup>roticollis</sup> ♂ 159  
brown/black/black

9.7

9-7

[112]

13582 ✓ *Xolmis irupero*  
brown | black | black.

♀ 194

13583 ✓ " "

imm ♂ 190

\* 13584 ✓ *Thryothorus genibarbis belivianus*  
red-brown | black, under blue below | dark brown

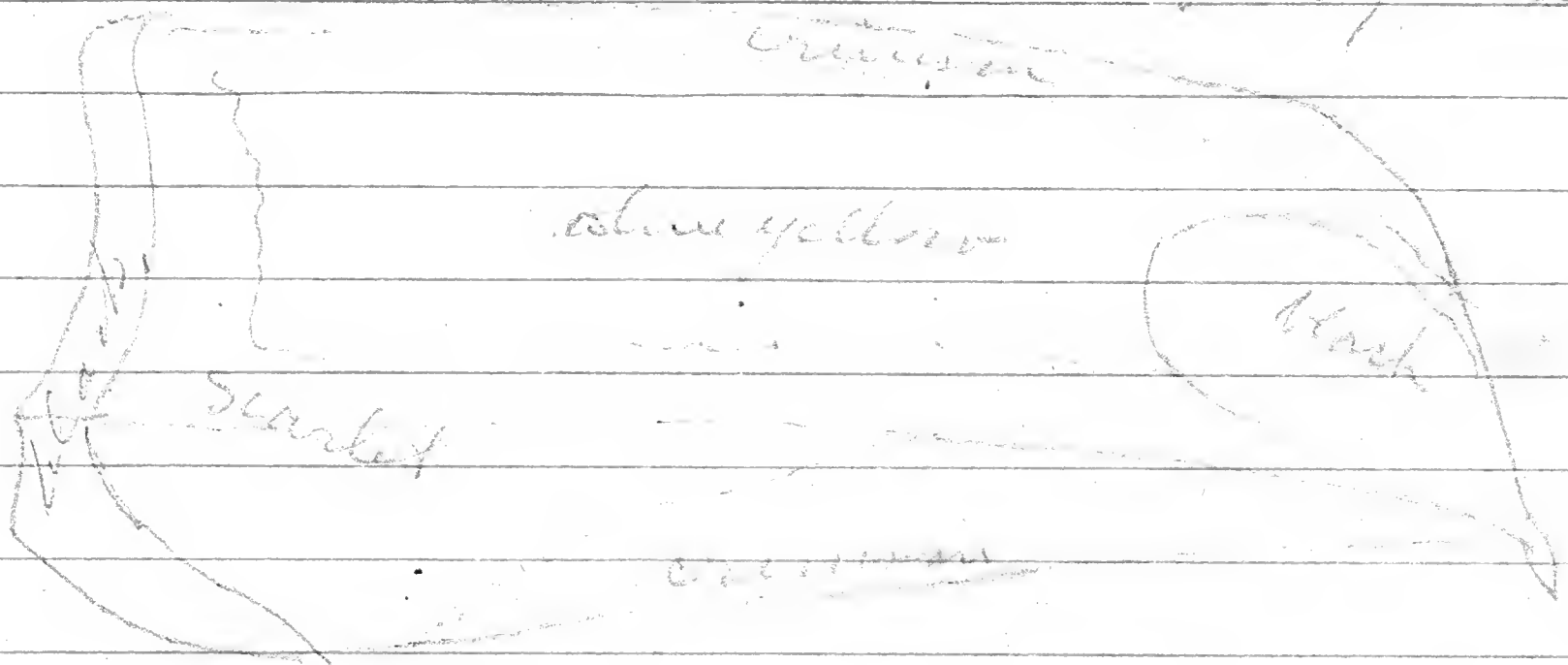
♂ 167

13585 *Ramphastos T. o.*

♂ 625

dark green | eyelid coral blue, skin around eye orange |  
feet bright leaden blue

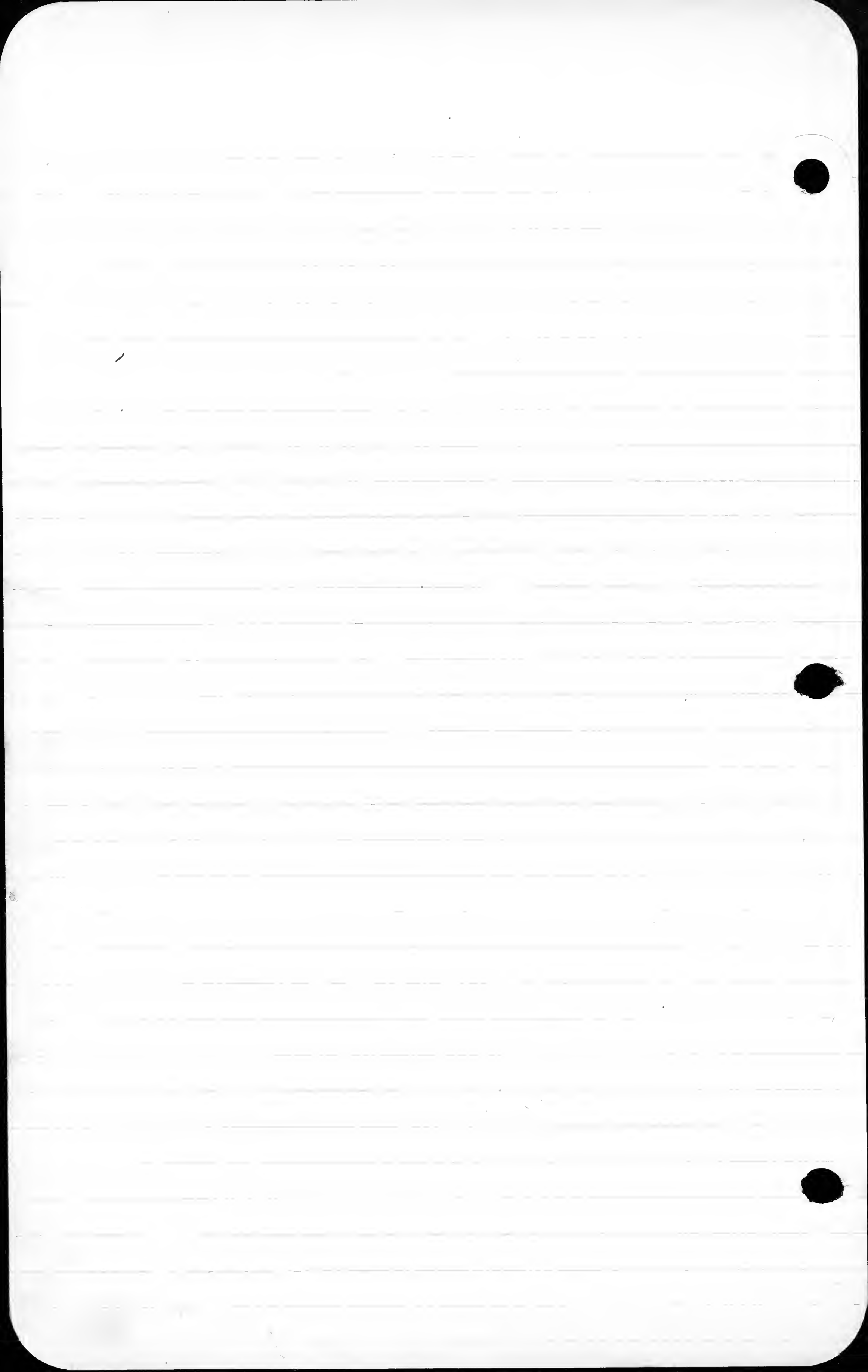
10-7



|                | <u>skins</u> | <u>species</u> | <u>new</u> | <u>mammals</u> |
|----------------|--------------|----------------|------------|----------------|
| Villa Montes = | 2200         | 316            | 203        | 55             |
| Lagunillas =   | 110          | 10             | 7          | 0              |
|                | <u>2310</u>  | <u>326</u>     | <u>210</u> | <u>55</u>      |

Lagunillas, Nov. 17.

Terrific storm last night, with much wind & rain.  
Spent day, writing labels, labelling & packing birds & outfit  
expect truck tomorrow morning to leave here for  
Rio Acero.





Last Number Lagunillas = 13585.

|               | <u>Skins</u> | <u>Species</u> | <u>New</u> | <u>Mammals</u> |
|---------------|--------------|----------------|------------|----------------|
| Lagunillas    | = 2310       | 325            | 210        | 55.            |
| <u>Totals</u> |              |                |            |                |

66 species collected

43 " observed - not collected.

No 5 (small round package) all supplies except 410 cart, and quinine which are in big box (No 7)

No 9. Fully birds, except in one end all 410 cart, quinine, cyanide box. Cards oil & bit of reserved cotton.

On top of boxes of birds all card boxes (empty)

No. 4. Bottom nearly filled with large birds, filled up with cotton. Tail full large birds.

No. 2 Drier, card index, 32 cart. etc.

No. 7. Full of birds (4 boxes & some large ones below on side.

No. 6 ammunition & washing supplies.

20 species

+

On new highway, between Padilla + Montaguá

- Nov. 21 -

Rio Azero Dept. Chiquisaca (4000 ft)

Bests <sup>(south side)</sup> ~~collected~~ <sup>worked</sup> along it, upstream. I went down stream on south side & worked up two narrow deep valleys, the first was almost unpassable & yielded almost nothing, the 2nd was better, longish leafed but very running water at upper end. I there took most of my birds, *Conopophaga*, *Otus*, *Mimus*, etc.

\*\* ↓  
13576 *Ara militaris* ♀ 715  
brown orange \ black, tip of culmen pale \ black

\* ↓  
13577 *Thalassidroma fulvicauda boliviana* ♂ 118  
black \ black

↓  
13578 *Capsiempis flavoola* ♀ 127  
brown \ black, plub below basally \ dark below

↓  
13589 *Elaenia viridicata* ♀ 143  
brown \ black, plub below basally \ dark below

↓  
13590 *Basilictes bivittatus* (T.M.E.) ♂ 153  
brown \ black, \ yellowish brown

↓  
13591 *Xanthomyias salateri* ♂ 135  
brown \ black, plub at base below \ dark below

↓  
13592 *Syrrhaptes scutata whitii* ♂ 165  
brown \ black, below base below \ dull yellowish orange

↓  
13593 *Xenops rutilans connectens* (T.M.E.) ♂ 135  
brown \ black, plub below basally \ dark

↓  
13594 " " " (T.E.) ♂ 133

2-1

2-1  
\*

+

[114]

13595 ✓ *Conopophaga ardesiaca* n. subsp. ♂ 147  
brown | black, (pale below) | leaden blue

13596 ✓ *Thamnophilus caerulescens* *linellii* ♂ 170  
brown | black, (leaden blue below) | leaden blue

13597 ✓ " " " (large egg in ovary) ♀ 165

13598 ✓ *Alysiarchus tuberculifer* *strieps* ♀ 199  
brown | black | black

13599 ✓ " " " " ♂ 204

13600 ✓ *Dendrocopetes palliscens* ♂ 281  
brown | pale bluish brown, long max, black | blue leaden

13601 ✓ *Momostes munita* *pilcomajensis* ♀ 429  
pale gray | black | blackish brown

13602 ✓ " " " " ♂ 420

13603 ✓ " " " " ♂ 444

13604 ✓ *Veniliornis olivinus frontalis* ♀ 177  
brown | black, (under tail) | leaden

13605 ✓ *Chloraneryps rubiginosus tocumanus* ♂ 242  
brown | black | leaden

\*\*  
13606 ✓ *Scapanus molinae* *albicastris* ♂ 358  
yellow | pale bluish white, (darker) | blue

13607 ✓ *Osticeps decumanus maculosus* ♀ 381  
pale blue | yellowish brown | black

13608 ✓ " " " " ♀ 365

4-2

4-2

+

13609 ✓ *Turdus rufoventris* (Laying) ♀ 269

brown | dark olive, olive yellow below | dark brown

13610 *Cyanocorax cyanocephalus* ♀ 375

brown | black | black

\*\* 13611 ✓ *Otus choliba* ♂ 220

yellow | olive | dirty brown

13612 ✓ *Pionus bridgesi* ♂ —

brown | black | black, yellow apically | blackish

True  
species

Rio Azeite, Nov. 22 (Sunday)

Began raining about 3 AM & continued until 8:30. We went out about 9 o'clock, drove down river & traps highway for about 6 K.M. Day heavily overcast with light rain occasionally most of day.

13613 ✓ *Euscarthminis plumbeiceps viridiceps* ♂ 109

brown | black | leaden blue

\*\* 13614 ✓ *Synallaxis superciliosa* ♂ 164

gray | black, pale brown at base below | leaden blue

13615 ✓ " " (M) ♀ 162

13616 ✓ *Herpsilochmus pileatus atricapillus* (M) ♂ 142

brown | black, pale leaden blue below | leaden blue

13617 ✓ *Elaenia viridicata* (T.E.) ♂ 146

brown | black, pink at base below | blackish brown

13618 ✓ *Thamnophilus caerulescens dinellii* ♀ 166

brown | black, leaden blue below | leaden blue

13619 ✓ *Hylaeichla ustulata* ♂ 175

brown | black, pink at base below | blackish brown

6-4

6-4

x

[115]

13620 ✓ *Nyctanassa infocentris* ♀ 234

brown/black, pink at toe below / dusky black

13621 ✓ " " (T.E.) ♂ 235

13622 ✓ *Dendrocygna pallescens* (T.M.E.) ♂ 297

brown / pale-brown blue, blackish at base / leaden blue

13623 ✓ *Momotus monista petersi* ♀ 405

brown/black / dirty blackish

13624 ✓ *Crypturellus tataupa* (T.E.) ♂ 243

brown / pink red / purplish drab

13625 ✓ *Pyrrhura m. melinae* (M) ♀ 264

orange / black / black

10 more species

Rio Azero, Nov. 23.

We went up cañonero ground into valley of Rio  
I went down into valley & birds climbed on my head  
& above it. I covered the river & worked on opposite  
side also. Day cloudy & cool, but no rain.

13626 ✓ *Thalurania fuscata boliviana* ♀ 109

black / blackish

13627 ✓ *Synallaxis superciliosa* ♀ (?) 160

hazel / black, brown blue below / olive brown

13628 ✓ " " ♂ 174

13629 ✓ " " ♂ 167

13630 ✓ *Synallaxis scutata whitii* ♂ 159

red-brown / black, bluish flesh below medially / pale brownish  
feet

6-4

6-4

+

- 13631 ✓ *Empidonax euleri argentina* ♂ 150  
brown/black, black below/black
- 13632 ✓ *Elanoides v. viridicatus* ♂ 142  
brown/black, black below basally/black dark below
- 13633 ✓ " " " ♂ 146
- 13634 ✓ *Thamnophilus caerulescens dinellii* ♂ 165  
brown/black, black below black below
- 13635 ✓ " " " ♀ 165
- \*\* 13636 ✓ *Buarremon* (?) ♂ 175  
brown/black/blackish brown  
like *tinguatus*, except for black pectoral collar
- 13637 ✓ *Arremon flavivestris orbignii* (T.E.) ♂ 166  
brown-yellow, ridge black, blackish brown
- 13638 ✓ " " " ♂ 161  
(wing broken & healed)
- 13639 ✓ *Cyanocitta cyanea peliagastis* ♀ 172  
brown/black, black below/blackish
- 13640 ✓ *Myiodynastes solitarius* (T.E.) ♂ 145  
brown/black/black
- 13641 ✓ *Sayornis nigricans latirostris* ♂ 145  
brown/black/black
- 13642 ✓ *Antrostomus rufus* (No. 13545) ♂ 295  
brown <sup>group up below</sup> blackish brown blackish
- 13643 ✓ *Piaya cayana* ♂ 462  
carmine/blackish above basally, yellowish black apically/brown

7-5

7-5

+

[116]

13644 ✓ *Syndactyla rufescens* ♂ 185  
brown/black, plus below vertical olive

13645 ✓ " " ♀ 190

13646 ✓ *Dendroclaptes pallescens* ♀ 282  
brown/pale brown, blackish above dorsally

13647 ✓ *Chloronotus rubiginos tucumanus* ♂ 250  
brown/black, olive

13648 ✓ " " ♀ 238

13649 ✓ *Scapanus melanoleucus albivestris* (♀) 365  
yellowish/brown, ridge dorsal, thin olive  
*albivestris*  
seems to be not sexual organ

13650 ✓ " " ♂ 345

13651 ✓ Squirrel. 242-168-48-25-♂  
(without testes)

11 more specimens

Rio Azara, Nov. 24

We both worked on other side of Rio Tircanayo, boats going up stream & up a gulch & I saw the Azara & then up gulch into hills. Saw plenty in forest, also in P. 200.

13652 ✓ *Scapanus melanoleucus albivestris* ♂ 358  
yellowish/brown, ridge slightly dusky, thin

13653 ✓ *Leptepitita venosus decipiens* ♂ 300  
brown/black, pinkish black

13654 ✓ *Adelomyia inornata* ♀ 95  
black/dusky fluff

8-6

13655 ✓ *Thalassania furcata boliviana* ♂ 114  
black/black

8-6

+

13656 ✓ *Geothlypis aequinoctialis velata* ♂ 138  
brown black, flesh below pale brown

\* 13657 ✓ *Volatinia jacarina* ♂ 121  
brown black, dusky flesh below dusky blackish

13658 ✓ " " ♂ 118

13659 ✓ " " juv ♂ 118  
— | —, flesh below —

13660 ✓ *Elaenia viridicincta* ♀ 135  
brown black, pink at base below leaden

\* 13661 ✓ *Elaenia strepera* ♀ 151  
brown black, yellow flesh below leaden black

(\*) 13661 ↓ duplicate = No 13690 *Pycnonotus albasquamatus* ♀ 105  
brown black, same below below tip black leaden

13662 ✓ *Xenops rutilans connectens* (T.E.) ♂ 130  
brown head, flesh below dusky leaden

13663 ✓ *Thamnophilus caeruleus dimollis* ♂ 168  
brown black, leaden blue below leaden blue

13664 ✓ " " " " ♂ 160

13665 ✓ " " (large egg in) ♀ 162  
dusky

13666 ✓ *Myiarchus tuberculifer striceps* ♀ 191  
brown black black

\*\* 13667 ✓ *Chlorospingus ophthalmicus argentinus* (T.E.) ♂ 150  
red - brown black pale leaden blue

12-7



12-7

+

□ 17

\* 13668 ✓ *Lochnias nematora obscurata* ♀ 167

brown black, pale brown below, black

13669 ✓ " " " ♂ 170

13670 ✓ *Casiornis rufa* ♀ 185

brown black, black at base below, blackish brown

\* 13671 ✓ *Turdus albicollis contemptus* ♀ 237

brown black, pale yellow below, brown blue

13672 ✓ " *reticulatus* (T.E.) ♂ 260

brown yellowish blue, large blackish blue, pale brown

2 more species

Rio Azero, Nov. 25

We both crossed the Rio Tirimayr + Bente worked up it + into the quebrada above little farm, + working far up it. I worked the other quebrada running back from Rio Azero where I was yesterday.

Birds very scarce, except a few common species not counted. I shot a *Scoyalopus* with white plumage + lost it, also a *Lochnias* + it escaped wounded under some big boulders.

13673 ✓ *Ponelope obscura bridgesi* (egg with shell) ♀ 850

brown black, black at base, brownish below, feet blackish brown.

13674 ✓ *Thalassania tucata boliviana* ♂ 114

black black

13675 ✓ *Squallaxis scutata* — ♂ 160

brown black, brown below, reddish, pale brown

13676 " " " " ♂ 160

14-7

14-7

+

- 13677 ✓ *Synallaxis superciliosa* ♂ 158  
brown/black, dusky, pale below | brown above
- 13678 ✓ *Picumnus* \_\_\_\_\_ n. subsp. ♂ 166  
brown/black, brown blue below top black | leaden
- 13679 ✓ " " " " ♀ 106
- 13680 ✓ " " " " ♀ 108
- 13681 ✓ *Elaenia v. viridicata* (T.E) ♂ 152  
brown/black, pale at base below | dark leaden above
- 13682 ✓ " " " " ♀ 142
- 13683 ✓ *Cyanocampa cyanea* \_\_\_\_\_ ♂ 178  
brown/black, brown blue below locally | black
- 13684 ✓ *Coscinus rufa* (T.E) ♂ 188  
brown/black, pale below locally | leaden black
- 13685 ✓ " " " " ♀ 174
- 13686 ✓ *Myiarchus tyrannulus* \_\_\_\_\_ ♀ 215  
brown/black, pale at base below | black
- (13687 ✓ *Dendrocolaptes pallescens* ♀ 287  
brown | pale brown below, large wing | black | brown above  
missing)
- 13688 ✓ *Turdus albicollis contouris* ♀ 231  
brown/black, dusky, yellow below | dusky brown
- 13689 ✓ *Cyanocampa cyanea* \_\_\_\_\_ ♀ 180  
brown/black, bluish black below locally | black
- 13690 ✓ *Picumnus* \_\_\_\_\_ n. sp. ♀ 105  
brown/black, brown blue below top black | leaden

14-7

5 more species 14-7

15 miles up Rio Limon (5000 ft) Nov. 26.

Rained nearly all forenoon & in P.M. about in evening  
traced 15 miles up road, thence up mountain side into  
heavy, humid forest. Birds very scarce, but some  
good things seen & heard, *Scytalopus* & *Gallaria*.

\* [130]

13691 ✓ *Penelope s. selateri* ♂ 702

[132] brown (blackish brown, pale brown below) pale pinkish throat  
13692 ✓ " " " ♂ 720

13693 ✓ *Pezopiza whitii* ♂ 145  
brown (blackish brown, pale brown below) blackish brown

13694 ✓ *Collinus dryas maculatus* (T.M.E.) ♂ 186  
brown and buff, common black (yellow) red / red orange

✓ *aeolicollis contemptus*  
13695 ✓ *Turdus a. aeolicollis contemptus* ♀ 230  
brown black, some yellow below / pale brown

\* 13696 ✓ *Elania g. obscura* ♀ 187  
brown (blackish brown, pale brown below) black  
some brown above, white crown patch

13697 ✓ " " " ♀ 187

\* 13698 ✓ *Atlapetes chrysopygus* (T.M.E.) ♂ 234  
brown (black, black at base below) black

13699 ✓ " " " ♀ 230

13700 ✓ *Dendrocygna p. pallidirostris* ♀ 302  
brown (blackish brown, pale brown below) black / black

\* [137]

13701 ✓ *Theristicus caudatus* ♀ 740  
brown (black) coral red

|            | <u>skins</u> | <u>specimens</u> | <u>new</u> | <u>mammals</u> |
|------------|--------------|------------------|------------|----------------|
| Lagunillas | 2310         | 325              | 210        | 55             |
| Rio Azero  | <u>116</u>   | <u>18</u>        | <u>7</u>   | <u>1</u>       |
|            | 2426         | 343              | 217        | 56             |

55 species taken

22 " observed (not taken)

at sea off Peru near Punta Jan. 9, 1937

13702a Petrel ♂

13703a Petrel ♀

2nd. Bolivian Expedition, 1936 - Birds Eggs

Callipampa, (Lake Poopi), June 7.

52.9 x 32.6  
53.1 x 33.2

No. B.26 Centropelma micropterum (11643)

<sup>2</sup> Eggs fresh. Nest made of water weed piled up into a heap amongst the stems of a clump of reeds. Nest afloat. Eggs covered with nest material. Clump of reeds about 5 feet in dia, 1 mile from shore, at outer edge of fresh water from Dragadero River. Water about 4 to 5 ft deep. Nest about 15" dia.

No. B.27 Fulica ardesiaca

57.1 x 38.  
55.6 x 37.7  
54.6 x 37.2  
57.8 x 38.2

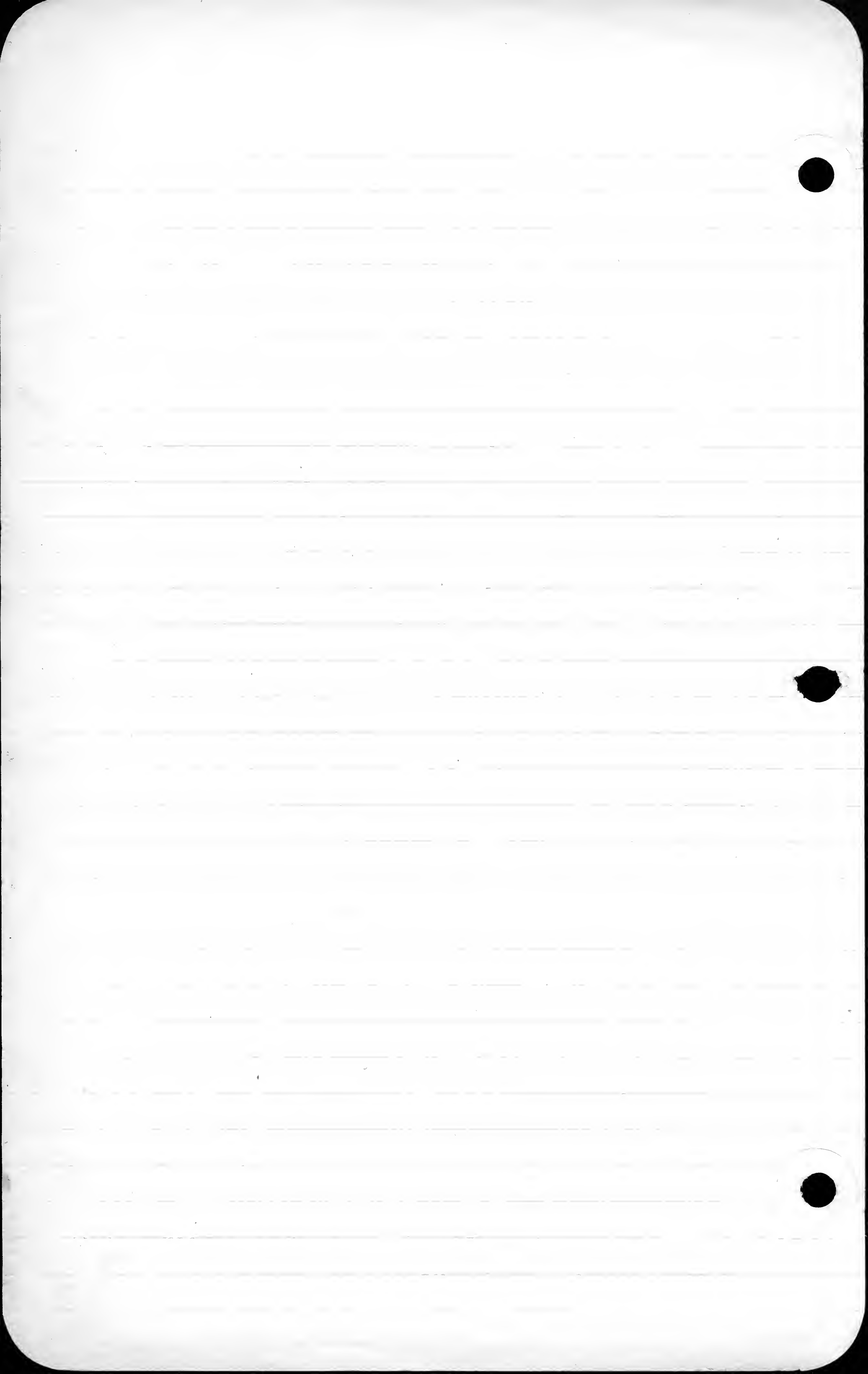
Eggs incubated 8 to 10 days. Nest similar to No B.26, slightly larger & placed in larger clump of reeds, near one side. Eggs not covered. Same situation as B.26.

No. B.28 Fulica ardesiaca

<sup>3</sup> Eggs incubated 12 to 15 days. Nest & site similar to B.27 & not far from it.

59.6 x 39.3  
60.2 x 39.5  
57.8 x 39.

This is apparently not the regular breeding season, but an intermediate laying by a few birds. A very young Coot seen a few days before & a tiny duckling of the Ruddy Duck seen taken on June 7.



Llallagua, Dept. Potosi (13,000 to 14,000 ft)

This is the name of the Patinña tin mine, on a branch line of the R.R. running s.e. from Machacamarca, a distance of            kilometers from that place. The line starts climbing up a valley from Machacamarca, past Playa Verde and Juanuni and crosses the divide at about 14,200 feet, at K.M. 67, then drops down to the Llallagua Station at 13,332 ft. The mine lies in the mountain above and below the Station, while the main camp (called Siglo Viente) lies just below the station, on the slope of the mountain running down to a rather deep valley, running more or less east and west. Work was done here from May 5th to May and although the rainy season had but shortly ended, everything was parched and dry, due to the lack of rain during the season just closed. The whole country as well as Peru has suffered a severe drought during the rainy season of 1935-1936 (Nov. to April).

To the east of the Llallagua Station the land slopes off to a large pampa, with some hills at east side and south side, then breaks off into a rather deep valley running north and south, which meets the valley coming down from above Llallagua. Below the junction of the two is the large artificial lake which supplies power for the Patinña Mines. This lake lies at about 11,800 feet, I should judge.

Below Siglo Viente, about three miles are the Mills which care for the ore, as well as the shops and administrative offices and Hospital. This camp is called Catavi, and that is where we were located.

All birds taken at level of Catavi or below, are labelled "Catavi", while all taken higher up, either on the mountain back of Llallagua Station or on the hills across the valley to the north, are labelled Llallagua. The pampas and valleys proved to be very dry and almost devoid of any vegetation, beyond a sparse, low growth of grass in places, now completely dried up. On the steep slopes of the mountains, amidst the broken rock and boulders, the grass was more abundant, consisting of both short grass and the common tall, bunch-grass, with sharp points and thick, tough stems. Also small perennials and annuals were found in the more sheltered spots, especially at the base of cliffs and in the cracks and crevices of the cliffs themselves. These were by far the best collecting localities, along the bases of the cliffs and on the steep rocky slopes. But few species were found out on the dry, parched pampas. Geositta cunicularia was found only on the pampas, while Sicalis

olivaceus and u. uropygialis, Muscisaxicola maculirostris, M. capistrata and Phrygilus p. plebejus were found to some extent on the pampas, as well as on the higher slopes. Cinclodes fuscus and C. atacamensis were only found along the streams, the former along any tiny rivulet, but the latter only along the larger streams.

All species of Asthenes, Upucerthia and Geositta (except cunicularia) were only taken on the rocky slopes above 13,000 feet, as well as Leptasthenura and the little Parroquet, as well as Oreotrochilus and Ochthoeca, and all species of Muscisaxicola except maculirostris and capistrata were confined to the high altitudes. Agriornis both high and low.

Birds were nowhere found abundant, but more so on the slopes of the range north of the Golf Course, where there was present more grass and shrubs as well as a number of small rivulets. Most all birds are very shy, and seldom permit one to get within range of the auxiliary barrel. When a shot is fired, all birds near will fly away for long distances before alighting as a rule and are afterwards doubly difficult to approach even within long gunshot. Most of the birds were either in the post-nuptual moult or had about completed it. The Furnariidae were mostly all in good fresh plumage, having just about finished the moult, but all Fringillidae were in full moult as a rule, but few specimens taken which had completed the moult. Immature birds were fairly common also. Most all of the Finches were in flocks, consisting of old, moulting birds and immature ones, which made collecting them rather difficult, since flocks were not abundant, and after one shot was fired near a flock, they usually departed for parts unknown. Flowers were very scarce, only present around the cliffs, and Hummingbirds scarce and wild. Oreotrochilus was the only one seen at the higher altitudes.

One large, eagle-like Hawk seen, several Condors soaring overhead. The common Black and white Carrion Hawk seen in pairs several times.

Seen but not taken:

Spinus atratus

Andean Curlew(?) a flock of about 50, twice.

Two trips were made down the valley below the power dam, reaching an altitude of about 11,000 feet. Very little different was taken there, only Thraupis bonariensis; Poospiza hypochondriaca; Spizitornis flavirostris; Sicalis aurieiventris and Mimus dorsalis

There is considerable low vegetation in bottom of valley, but at this time was nearly all dried up. The valley is very narrow, with precipitous sides, and collecting very difficult. In rainy season probably quite a lot of birds there.



□2□

Callipampa.

Situated on the Bolivian Railway, about midway between the stations of Poopó and Pazña. The Railway follows along the east side of Lake Poopó from the Station Poopó south to below Challapata, altitude 12,150 feet.

At this point the Railway is about three miles back from high water-level of the lake and there are two high hills between the line and the lake, surrounded by nearly flat country. The terrain slopes back gently from the lake, usually for a distance of about 5 miles, then rises rather steeply in a range of low mountains from 2,000 to 2600 feet above the lake. The valleys which open out of this range of hills are usually steep sides, with much rocky outcroppig. The bottoms are narrow, but contain quite an amount of low shrubbery and bushes, while the slopes are thickly dotted with bunch grass. The shrubbery of the valleys extends out onto the plain for some distance, but between the valleys there are few or no ~~bushes~~ shrubs, merely grass and low bushes.

Birds were much more abundant here than at Catavi and Llallagua, that is, individuals. Some species taken at Llallagua were not found here, due, probably to the lower altitude, while quite a number of species were present here, which were not seen at either Catavi or Llallagua. The following land birds were added to the

list here: Spizitornis parulus; Upucerthia ruficauda; Gallinago paraguayae; Metropelia leucoptera; Nothura maculosa agassizii; unknown finch (No. 11592) Muscisaxicola atriceps (?); Agriornis microptera andecola.

Birds were gradually acquiring better plumage, especially the Fringillidae, although very few or none had as yet completely finished the post-nuptial moult. Furnariidae (except birds of the year) were mostly in full, fresh plumage, as well as Tyrannidae.

The water level of the Lake was unusually low for the time of the year. There had been two successive rainy seasons with very little precipitation, and although the rains end in April (and this was May 30th.) the water level was almost as low as at the end of the dry season in ordinary years. The water of the lake is very shallow on the east side, the middle and western side being deeper. The water had retreated about a mile from high water level, then followed another mile of mud, covered with from one to 6 inches of water; then another mile of water not more than 2½ feet deep anywhere, which was thickly choked with three species of water weed. The boats used

on the lake by the indians are of two types, the ordinary cigar-shaped, "balsa", made of rushes and a small flat-bottomed, box-like boat made of boards. The former are very cranky and will carry only two persons, and are very easily capsized. The latter are mostly small, about 8 feet long by 4 feet wide, with a bluntly pointed

bow and square stern. Both are propelled by a long pole, having a fork lashed to the end to prevent it sinking into the mud bottom. A similiar boat of large size is used for ferrying animals across the Desaguadero River.

The Lake proper does not reach much north of Callipampa although the maps show it reaching to Poopó. The Desaguadero River, which carries the overflow of Lake Titicaca into Poopó, has but little current in most parts although at the point where the Arica R.R. crosses it, it is narrow and has considerable fall. In most places it widens out over the surrounding land, especially in rainy season and forms marshes of considerable area, where rushes are abundant and bird life profuse.

The area of rushes and fresh water extends out into the lake for several miles in a fan-shaped "delta", and in this region, as well as on the river, aquatic birds are abundant. Plegadis Ridgwayi; Colymbus chilensis; Centropelma micropterum; Larus serranus; Tachuris rubrigaster; Phloecryptus melanops schoen.; Fulica cinereus and Anas flavirostris oxyptera, also Phalacrocorax sp are to be found commonly on the river and in the fresh water delts, but as soon as the open lake is reached and the water becomes brackish, they, as well as the rushes, disappear. A few miles south of the river delta, the water becomes quite salty, but this does not hinder the rank growth of the water weeds. In the open lake Flamingos were present, literally by the thousands, feeding about a mile out from shore in water about a foot deep. They were extremely wary and impossible to approach within gunshot (shotgun), and would very rarely fly over near a boat. Lessonia oreas was very abundant, hopping about over the water weed searching for insects. Anas versicolor puna was more common out in open lake than in rushes, as well as the Ruddy Duck. Larus Serranus was common everywhere, perhaps is the most abundant bird on the Lake. Shore birds were very scarce, but one species of Aegialitis being at all common on the vast flats along the lake shore. The "Stilt" Sandpiper was occasionally seen

At this time a few Coots and Flightless Grebes were breeding. Three nest of the Coot were taken with partially incubated sets, and one incomplete set of the Grebe (two) with fresh eggs. The eggs of the grebe were covered with the nest material, but the Coots were not.

A thorough exploration of the lake with a servicable boat should yield much interesting information, since we know almost nothing about its fauna.

#### Catavi (continued)

One trip was made to a couple of lakes about ten miles southeast of Uncia. Lakes in small valley, with many Indians near by and domestic animals, and bird life not abundant, except Fulica gigantea, in large numbers, but the smaller Coot not present. Anas flavirostris and a larger, unidentified Duck present, also some small Grebes probably Colymbus juninensis (not secured)

Chocaya.

□ 22

A tin mine on the Bolivian Railway, in Dept. of Potosi, far south of Uyuni, and about 230 kilometers north of the Argentine frontier. The mine itself is at 13,100 feet, in a valley running back west from the R.R. At the head of this valley are peaks rising to 15,000 feet.

The R.R. Station is at 12,500 feet. The whole surrounding country is very arid and barren, especially in the valley. A small river runs past the R.R. Station, which eventually finds its way into the Rio Pilcomayo. The country rises rather steeply to the west of the river (it flows nearly north and south) up to the altiplano, while to east of river the country is rather flat, but cut <sup>up</sup> into innumerable small ravines, with precipitous sides. The flates between the ravines are rather thickly overgrown with low thorn-bush and small cacti, and the earth thickly strewn with small loose stones. Most of the water in this valley, including the river, is slightly saline and unfit to drink. There is a fine spring of fresh water a couple of miles above Chocaya Station, from which water is carried in large cans to the mine for drinking purposes. Birds were scarce in the valley and of few species. Here we took for the first time Geositta frobeni, a very pale, desert form, but quite different from the allied species. Phyrgilus atriceps; Sicalis aureiventris and Leptasthenura aegithaloides berlepschi were most common. ~~And~~ Psilopsiagon orbigny, Asthenes modesta \_\_\_\_\_, Muscisaxicola capistrata, Phyrgilus p. plebejus and the white breasted Furnariidae were also present. No others seen.

Around the mine mills at Sta. Ana, there was almost no vegetation, not even bunch grass, with slopes steep and badly eroded in places. Lack of vegetation probably due largely to the smoke from the reduction plant. Higher up the ~~xxx~~ valley at the mine and above on the plateau conditions were better, but species were few and individuals scarce, except for a few forms, such as Sicalis aureiventris, Asthenes modestus and the White Breasted Furnariidae. However, up on the plateau to the south of the mine camp we found Tinamotes pentlandi. First I found a flock of about seven birds, and later a pair with four half grown young were secured. Apparently their sole food consists of the young, tender leaves of a low, small-leaved dark green bush. The crops all birds taken were gorged with these leaves, which were quite dry. Evidently the birds must subsequently drink water in order to digest them. The birds are fast fliers, and get up with a cackling note, rather disconcerting to the gunner. After flushing once, like all Tinamous, they prefer to hide or run, and are equally adept at both performances, their protective coloration making them practically invisible a short distance away. A peculiar Gopher-like animal was secured in the valley, where they burrow in the soft sand of the

flats along the river. They are terrific diggers and throw out the sand in a perfect shower behind them. The one taken was seen in action. A few Viscachas were seen in the higher elevations where suitable rock outcrops afford them shelter. They were very shy here.

Only a week was spent in this section, and while several worthwhile things were taken, the locality was a decided disappointment.

The southern portion of the Bolivian altiplano is for the most part very arid and with many portions decidedly saline. Rainfall is of short duration (only about two to three months, while the precipitation is apparently not heavy. Vegetation is sparse and bird life correspondingly rare. Very little is known of this bleak inhospitable region, while it would seem that there would be very little to repay the hardships attendant with its exploration. The inhabitants are few, mostly the lowest type of Kechua Indian. Towns or villages are almost non-existent, except for the scattered hamlets of the Indians, where it would be impossible for a civilized human to live, except by taking with him all food supplies, tent, heating apparatus etc.

### Oploca.

Oploca is a large hacienda belonging to the Patiña Mines Enterprises, or rather the Compañía Minera y Agricultura de Oploca. The R.R. Station, hacienda buildings etc. are at an altitude of about 11,000 feet in a small valley nine miles above Tupiza (Dept. Potosi). The Railway enters the head of this valley a few miles south of Atoche, where it breaks away from the altiplano in a southeastern direction. At Oploca the valley, which above is narrow and precipitous (in many places a veritable gorge) opens out into a saucer shaped area, while the surrounding mountains drop down to low elevations. The river bed itself is very wide, about 400 yards, but with only a small stream of water meandering over its rock-strewn, sand and gravel bed. On either side the land slopes back gradually and is under irrigation as far back as is possible to raise the water from the river. Where not in cultivation, all the slopes are thickly overgrown with vicious thorny scrub, usually not more than 5 or 6 feet high, but in some valleys, at the bases of the encircling conglomerate cliffs, they are more luxuriant and attain a height of 20 feet. There are three species of this scrub, one the most common. Two species of giant cacti also abound, as well as several low species. There is a tree along the river and on the lower flats which is abundant, and is, I think indigenous. They call it Molle. It grows to large size and is very attractive, with thick green foliage which

remains green and fresh all through the cold winter season, when it freezes hard every night. It bears clusters of small pink berries, much sought by Thrushes and

Tanagers (Turdus fuscater and Mimus dorsalis and Thraupis b. bonariensis) Doubtless many other birds also eat the berries. Willow trees have also been planted extensively, but lose their leaves in the winter months (perfectly bare in June and July).

The valley to the east is encircled by a line of fantastically eroded conglomerate cliffs, which are composed of clay, sand and small stones. They are mostly dirty yellowish, but a little further down the valley, towards Tupiza they change to fiery red. In places they resemble most extraordinarily, huge old forts, castles etc. Birds here are very scarce back on the hills and higher slopes, although the thorn scrub is abundant.

Lower down, along the edges of the cultivated lands and irrigation ditches and in the Molle trees birds abound, not only in individuals but in species. The bulk of the bird population, however consists of but comparatively few species, consisting of: Turdus fuscater; Molothrus semibadius bolivianus; Sicalis aureiventris and luteocephala; Phyrgilus p. plebjius; Mimus dorsalis; Zonotrichia capensis pulacyensis; Diuca behni; Gymnopelia ceciliae gymnops and Metripelia leucoptera

I was much surprised to find a considerable colony of a race of Passer domesticus located in the large Molle trees around the hacienda buildings. However they were never seen outside this particular spot. Apparently they have arrived here in some manner from the Argentine where undoubtedly they have been introduced at some time.

On the large fields along the river three species of Muscisaxicola were quite common, pallidiceps, capistrata and maculirostris. Here also was taken Agriornis and Geositta tenuirostris, but very rare.

Nothura lives in the thorn scrub off of the lower slopes and comes down to drink from the ditches.

The little Parroquets were quite common near the hacienda itself, but scarce back on the slopes.

Oreotrochilus adela was only found close around the hacienda, on the lower slopes and near river. They were feeding on the red flower of a parasitic plant, found in clusters on the Thorn Scrub, as well as the Molle trees.

In the summer months there is a long tailed species of Hummer here, but apparently it has descended to lower levels now. I do not know the species. = Lesbia sparganura

There are several species here which are probably accidental only, such as Pitangus sulphuratus bolivianus (four or five inside the large garden); Troglodytes musculus chilensis (?) a small Flycatcher (11771); Leptasthenura fuliginiceps (taken in the garden)

The Black and White Woodpecker was found only in the thorn scrub. No holes were seen anywhere which might belong to it, except a few in the Giant Cactus. I strongly suspect that it nests there. It was never seen around the Willow or Molle trees, while the thorn scrub is all too small for it to nest in, and besides is extremely hard, even when dry.

#### Finca Salo:

This is another section of Oploca, in another valley to the east, which opens into the Oploca valley about half way down to Tupiza. The valley is wider and contains more good land than Oploca, but there is less water. The old hacienda buildings are perhaps 500 feet higher than at Oploca. It is an hour's run by auto from one place to the other. The Salo valley is also enclosed for the most part by high, eroded bluffs of sandstone and conglomerate. There is a small pond, with several acres of marsh just below the hacienda buildings where we took Anas spinicauda and Anas cristata. The small Yellow Billed Duck here also in small numbers. In the marsh were several Fulica gigantea, about 25 Fulica ardesiaca and about the same number or more of the red shielded Gallinule. At edges of marsh were quite a number of Anthus sp. and a few Snipe.

For the most part the land birds were the same, but being higher up there were fewer species. Molothrus semibadius was common, and here we took five specimens of Upucerthia ruficauda, hitherto very rare.

There is much thorn bush here, trees quite large, but fewer Molle. Less cultivated land and more pastures.

#### Continuation of San Lorenzo/

Collecting was done here from July July 8 to 19 inclusive. The nights are invariably cold, usually a heavy frost falling. The temperature inside the enclosed patio usually dropping to 34 degrees F. at night. The days are usually cloudless and warm, though not oppressively so, and inside a house it is always cool during the day. Most of the time there was no wind, but on July 19 and 20 there was strong winds, mostly in gusts. It seems that in August the winds are bad. The only night here when there was wind (the 19th.) was much warmer, and the next day seemed warmer. The wind was from the north.

Sun rises about 7.15 and sets about 5 P.M. Were able to work without artificial light until 6 P.M. The Thorn trees were mostly with green leaves, also the Molle trees. The Willows were mostly with leaves, but yellowish, and sometimes nearly bare. Peach and apple without leaf, also Nogal. A few Peach blooming Jul. 18. Planting wheat at end of July

San Lorenzo, Dept. Tarija, alt. 7,500 feet.

A small, very old village, 15 miles up the valley above Tarija. A good automobile road runs from Tarija up to Villazon, connecting with the Railway there, a distance of 120 miles. Coming from Villazon to Tarija, the highway runs for about 100 miles over the altiplano with an average elevation of about 12,000 feet, crossing two rather deep valleys and three ranges of mountains about 1000 feet above the plains. The drop into the Tarija valley is very abrupt, with the slopes bare and arid, merely a little grass here and there. Down near the bottom of the slopes low thorn bush begins, but sparse. Lower down, in the valley itself is much Thorn bush, especially on the higher plains at each side, where the trees are larger and of two species, the more common one having a small yellow rosette-like flower, very fragrant, and a black pod about 3 inches long by 1/2 inch thick, pointed at tip. The other species has a flat, yellowish brown bean-like pod. The species with yellow flower was largely in bloom on July 20th, but no flowers seen on the other. Molle trees abound in the cultivated lands and along the streams, willow trees have also been planted much along the irrigation ditches, and grow to large size. Peach trees abound, a few apple and Nogal and orange.

The section under irrigation around San Lorenzo is large, and is cut up into small fields, separated by rows of trees of various kinds. Corn, wheat, barley, potatoes, peas and Habas are the main crops. Considerable grapes are grown and formerly much wine and pisco was made here but of late years a disease has attacked the grapes and they do not ripen properly, being unfit for wine, but good pisco is still made here. Birds are very abundant in cultivated areas and also in the tract of Thorn trees on east side of the river, opposite the village, where the valley is enclosed by a series of high, much eroded bluffs. The higher land in back is broken by series of tortuous, deeply eroded ravines, all opening into the lower valley, through the line of bluffs. In these bluffs are Great Horned Owls, a smaller Owl (did not get it) and a spotted Ocelot. Foxes abound in the whole valley. Hawks were not abundant. Sparrow Hawks, *Falco fusco-caerulescens* and *Accipiter erythronemius* were occasionally seen. *Milvago chimango* were always along the river bed, which is wide and at this time of year contains no running water, only long pools in the deeper portions of the river bed. There are several streams emptying into the valley, which extends above San Lorenzo about 8 miles. The whole valley is oval, and about 6 to 8 miles wide, narrowing down to a mile or less below

Tarija. Below San Lorenzo, and above Tarija, the valley is terribly eroded and cut up by a tangles series of tortous ravines, and almost without vegetation.

There have been found numerous fossils in this valley

The most abundant birds around San Lorenzo are Columbina picui, a veritable pest, also many Zenaida auriculata, which annoy the collector much by continually flushing from all sorts of places and frightening away the other birds. Sicalis pelzelni is also very abundant and Molothrus semibadius. Guira guira also common, and in flock at this time, as are also Molothrus and Sicalis. We found Lesbia sparganura common in the Thorn Scrub feeding on the red, tubular flower of a parasitic plant, growing in clusters on the limbs of the Thorn, as does the Misteltoe. Back on the sides of the valley, on the higher portions, next the foothills, was taken Oreotrochilus leucopleurus (?) (No record for Bolivia), but very few Lesbia were ever seen with them. Strangely the females were entirely absent, but one being seen and taken.

A single specimen of Colibri iolatus and 1 ♂ of Chlorostilbon aureo-ventris (?) were taken on a yellow tubular flower, of a tall shrub, on east side of river. Lepidocolaptes and Knipolegus were also quite abundant, as well as Tricothraupis, Mimus dorsalis and Serpophaga subcristata, all four found mostly in Thorn scrub. Curiously enough, three species of Mimus were taken here, but only two specimens were taken of triviratus, and but one of saturninus modulator, high up on the slope of the west side of valley. Leptasthenura fuliginiceps proved to be a bird of the trees, both in Thorn scrub and in other trees, not a habitant of low bushes, as are the others of the genus. Pitangus sulphuratus was common in the cultivated lands, and along the water, but never seen on dry sections or far from water.

Some species found to be very scarce here are probably stragglers out of their regular zone, and will be found more abundant lower down the valley. A few Larus serranus were seen along the pools on the stream bed, and one shot for identification. But one Rail was seen, at a little marshy ditch formed by excess irrigation water near the river bank. Nothura maculosa was quite common, mostly in the cultivated lands, but also seen out on dry plains and in thorn scrub, but they are very difficult to secure without a dog. Will flush once, then hide, and must be practically stepped on before flushing a second time.

According to information from residents here, there are some birds present here in the rainy season (Jan. Feb. and March) which are now absent. What they are, I cannot tell. I doubt if any, or at most very few, birds now here are migrants from the south, but doubtless some come down from higher altitudes during the cold, dry season



Tarija to La Merced.

Leaving Tarija, the road follows the regular highway to Villa Montes for some distance down the valley of the river (Rio Guadalquivir), then swings across to the southwest to Concepcion, a small village noted for its wine and pisco. From there it continues over a range of hills and down into another valley to Padcayo, a larger town, a total distance from Tarija of about 60 kilometers. The road this far is an old one, up hill and down dale, and in very bad condition, almost impassable during the rainy season.

From Padcayo the highway is new and very well constructed, with a maximum of 5% grade. It clombs out of the valley of Padcayo, crosses a range of high hills and drops down to La Merced, a distance of 30 kilometers.

La Merced. 5,500 feet.  
(on Rio Cachimayo)

This is merely a tiny hamlet of several scattered houses, the principal one being quite a pretentious place belonging to Gabriel Daza. The hamlet lies alongside a small river which flows on down to Fortin Campero, after receiving several large branches. The valley is deep and narrow, with mountains rising high on both sides, the slopes of which are quite bare on the upper reaches, but on the lower portion are scattered trees and shrubbery, the latter becoming more dense near the bottom. There is very little flat land along the river, but quite a long, narrow strip just at La Merced, which is under irrigation and has many orange and other fruit trees, also some grapes and cultivated fields. There is a small stream entering from the left (descending) just above the hamlet, along which is considerable woodland and shrubbery, and where birds were quite abundant. The main stream, above this branch, is very bare for the most part, there being scattered clumps of trees and shrubbery on the floor of valley and a good deal of shrubbery and trees on the slopes, but everything on the slopes was dry and leafless, only on the floor of the valley were there trees with green leaves.

Below the hamlet the valley widens out somewhat and there are some irrigated fields, but very little in the way of trees. Along the rocky edges of the river and on the large bars are many thorn trees, similiar to those at San Lorenzo, but these contained few birds.

A couple of miles above the hamlet the valley narrows down and there are very few flat pieces of land. there are several small creeks entering

through narrow, deep valleys, along the bottom of which there is considerable woodland and brush. These contained numerous birds, but are so steep that hunting there is almost impossible. Quite a number of species were taken in the upper valley which were not seen below.

On the whole birds were abundant, and the list of species quite large, 56 species being taken there, of which 25 were new to the collection and 13 of them not previously taken in Bolivia. We spent eight days there, from July 26 to August 2nd., and secured 164 birds.

(The river coming in at Capilla is the Candado, and river bears La Merced to Rio Lipeo. that name to junction with Lipeo.

At this time there was a provisional auto road down the valley below La Merced a distance of 20 kilom. to La Capilla, another tiny hamlet. There is little change in the valley before reaching La Capilla. At that point another larger stream comes in from the west, and the hills are lower and less precipitous, and have large tracts of woodland scattered over the slopes in the more favorable situations, where moisture is more abundant. We spent a day and two nights at the road camp there, while securing the animals needed for the trip, in addition to those we already had from La Merced. During this period and while at La Merced there were frequent cold south winds (Surazos), with more or less of mist and fine rain, making it extremely disagreeable especially at night. Usually they only lasted 24 hours, but one began on the day we left La Merced and lasted three days. We left La Capilla on the third day and I was bundled up in woolen clothes and a heavy poncho and none too warm then. At 1 Pm. it cleared up and was more comfortable. The trail from Capilla down to Coyambuyo is very bad, up and down along steep mountain sides with much rock and trail narrow and steep. A few miles above Coyambuyo the trail drops down to the river and we cross it several times. At Coyambuyo the valley opens out and the hills drop down much lower, especially on east side, and all the way down from La Capilla, the whole of the mountain slopes and valley is heavily wooded.

We reached Coyambuyo after dark, and found merely two miserable huts, one empty and the other full of people, and nothing to eat. After considerable difficulty we got the woman to cook our supper and we turned in. That night it was very cold, a heavy killing frost, and I was chilly in my sleeping bag.

The next day we followed on down the Rio Candado crossing and recrossing it many times, passing the Rio Toldos about 1 P.M.

At this point we kept to the west side of the Candado and a few miles below left river and climbed up over a range of hills and dropped down into the valley of the Rio Lipeito, which empties into the Lipeo about a mile above its junction with the Candado. This whole region is heavily forested, but everything very dry at this time and the heavy frosts are causing the leaves to drop on many of the trees. We dropped down the Lipeito to its junction with the Lipeo, then ascended that stream about a mile when we reached the farm of Blusky and Marrett, called Monte Bello. There is little in the way of buildings or accommodations and we had things pretty rough there in every way.

Monte Bello, Rio Lipeo. (about 2,000 ft.)

(Collected here from Aug. 7 to Aug. 28 inclusive)

The region of the Rio Lipeo seems to have a heavier rainfall than any of the surrounding country and covering a more extended period, for we found the forest there very luxuriant and the vegetation fresher and greener. On the floor of the valley (which is broad in places  $\frac{1}{2}$  mile) the forest is heavy, with tall and large trees. The undergrowth consists of tall shrubbery and small trees, with little in the way of low, tangled growth or vines, so that it was comparatively easy to get about in it. Much of this is due to the fact that for many years cattle and horses have grazed here in the forest. On the slopes of the hills the undergrowth is thicker and more tangled.

The Rio Lipeo is a large stream and carries much water in rainy season. At this time it was very low, averaging about 120 feet wide, with many deep, still stretches and shallow riffles, not more than 2 feet deep. The water is crystal clear and very cold.

The Lipeito is a small ~~xxxxxx~~ stream, which one can cross on the boulders at most every bend at this season but water clear and cold.

Birds were very abundant here, especially some species while others were very scarce. The bird fauna is very peculiar, many species being present which one would naturally expect under these conditions, while on the

other hand many others which are naturally associated with those present, were not found at all.

Trochilidae were almost entirely absent, both as to species and individuals. The only Wren was Troglodytes musculus. Only two species of Formicariidae were found, one new to Bolivia.

Furnariidae were also very poorly represented, but one species extremely abundant (*Syndactyla*), also *Synallaxis scutata* very common.

But one species of Tinarou and one Cracidae. and two Columbidae, *Leptoptila* (common) and *Oreopelia* (very rare). Almost no Tanagers, no species of *Tangara* and one *Tanagera*.

A total of 81 species were taken and 10 more observed. Of these 81, 53 were new for the year and 34 not previously taken in Bolivia.

### Rio Lipeo to Bermejo (1250 ft.)

The trail (if it may be called such) follows down the Rio Bermejo (which it is now called, below the junction of the Lipeo and Candado), for the greater part merely pursuing its way over the boulder strewn margin of the river which are now exposed due to low water. At practically every bend the river is crossed, the fords being rocky and sometimes deep, ranging from three to four feet. At three points it was necessary to leave the river and cross low spurs of the hills to escape some very deep stretches between cliffs, where it was not possible to follow the river. These detours were very bad, very steep and rocky and dangerous in places. Our pack animals repeatedly fell and rolled over but fortunately no material damage done, except to our tempers and immortal souls. We took three and a half days for the trip, which may be done in two days without packs. The weather was fine, clear and hot, with black flies very bad along the river, but no mosquitoes. The heavy frosts and freezing weather we had while at Monte Bello had killed all the leaves of the trees and shrubbery along the river, and everything was dry and searere, with most of the trees bare of leaves. The nights were still cold.

### Bermejo (1320 feet)

This is an old Standard Oil Camp. There are several flowing wells here, but all are capped and the place is completely abandoned, and has been for several years. Opposite, on the Argentine side of the river is another Oil Camp (Aguablanca) which has four producing wells, one flowing about 200 bbls. a day and the others are being pumped, giving a total of about 400 bbls., which is piped down to a point on the River near Oran.

We arranged to live in Aguablanca and do our collecting on the Bolivian side of the river, through the courtesy of

the Argentine. Customs there

There is suspension bridge which connects the two camps, over 200 meters long, but only for foot passenger. We spent only nine days here.

This place is still in the foothills and all heavily wooded, with country much broken. Most of the collecting was done along the river and along a road running back up a side creek a couple of kilometers.

When we arrived here we found that the blue haze which had puzzled us so much at Monte Bello was caused by forest fires which had been burning all around this region and south to Oran for the past month. The smoke was much worse here at Bermejo and after a few days the fires came very close on both sides of the river so that collecting was very difficult on account of the smoke. For two days it was impossible to work on the Bolivian side and we collected on the Argentine bank.

However no species were taken on the Argentine side which were not taken in Bolivia.

70 species were taken at Bermejo, of which 13 were additions to the year's list and 9 not previously taken in Bolivia. On the whole the place was a decided disappointment. However conditions were so similar to those at Lipeo that not much new could be expected, while the fire and smoke made collecting more difficult.

While here we had one rain of a half inch, which was very welcome and made the last two day collecting much better.

Fortin Campero (1150 feet)

This Bolivian Fort is in the Juntas de San Antonio, where the Rios Tarija and Bermejo meet, and is the most southern point of Bolivia, where that country extends deep into the Argentine in the province of Salta. Shortly after leaving Bermejo, the hills disappear completely and the country is entirely flat. There is an auto road from Bermejo to the Fort, also from Aguablanca to Oran. Distance to the fort is 12 miles, from Aguablanca to Oran, 48 kilometers.

The forest had been burned over for the greater part between Bermejo and the Fort, the fire burning out the undergrowth, dead trees and many of those standing were burned off and had fallen down. Everything very dry and bare and smoke still hanging about.

At the Fort birds were not particularly abundant, and most of those taken were shot along the two rivers. Further back, inside the forest birds were very scarce and fire had been through most of the forest. Ticks were also

Very bad

Ticks were also very bad wherever the fire had not passed. We took more new species here than at Bermejo. About half or more of the new birds came from the long narrow strip between the two rivers, known as the Juntas. It is a couple of miles long and from three to five hundred yards wide, mostly just sand and small boulders, but with higher areas where a willow like tree grows thickly.

(See Field book for list of species from Juntas) We spent 3 days here, from Sept. 16 to 23 and did very well. The weather was clear and hot all the time, with almost no wind or even breeze, but most of the nights were cold (minimum 9 and maximum 36 Centigrade) 144 skins were taken. 68 species taken and many more observed of which we did not need specimens or could not secure the birds. 22 new species taken, of which 15 had not previously been secured in Bolivia.

#### Tarija to Entre Rios

The highway leading to Entre Rios is the main one to Villa Montes. It starts out southeast over the arid, eroded valley below Tarija, then crosses a low range of hills and swings more or less east across another wide valley. This valley has a narrow, deeply and sharply erodes central portion, with sides forming a rolling bench land. The only vegetation in this region is a few scrubby Acacias and several low varieties of cacti. In the central, deeper portion of the valleys the Acacias grow taller and more luxuriant, and at this time (Oct. 15) were all freshly leaved out and many in blossom, the blossom being a small, round, yellow head of fine petals. After about 35 kilometers the road drops down into a deep, canyon-like valley, with many cliffs, which it follows downwards for several miles, then swings to left up a side valley, climbing out over another divide and dropping into another valley. During the first 35 K.M. there is little rock to be seen, beyond small stones (mostly rough edged) scattered everywhere on the surface, with occasional outcrops. When it enters into the deep valleys there is much rock everywhere, outcrops, cliffs, etc, but still almost no vegetation beyond the Acacias and a few other trees along the streams. At about K.M. 65, the road climbs out up a side valley to the left and suddenly heavy woodland begins. The country is rough and broken, with an altitude of perhaps 7,000 feet. In a few places the stand of woodland is apparently primitive and consists largely of a species of tree not hitherto seen (resembling somewhat a conifer, but probably is not

This peculiar forest continues for about 10 k/m/ and then changes to the ordinary forest as found below La Capilla on road to Rio Lipeo. In sections where the original forest has been cleared there is much growth of the tree resembling Black Birch", which ranges all the way up to Colombia at high altitudes. Where the pine-like trees are found there seems to be a considerable outcrop of limestone, which disappears elsewhere and gives place to a soft red sandstone. Ar about K.M. 85 there is a large, rather wide valley, where there was a large base hospital during the war, a place called Narvaez. There are many gentle slopes on the mountain sides here, but all has been deforested long ago. From Narvaez the road climbs up again, crosses another divide and then a long drop down into the valley to Entre Rios. This whole highway is very well laid out and the grades are not excessive, the only drawback being its narrow width, not allowing cars to pass except here and there. Naturally there are many sharp curves and the drivers are none to careful. However very few accidents occur now, but during the war many trucks were wrecked and many men killed and wounded. A cross marks all these spots where anyone has been killed.

It is about 108 kilometers from Tarija to Entre Rios.

Entre Rios. (4,600 feet)

Situated in a rather wide valley, just above the junction of the Rio Sta. Ana with the Rio Salinas, the town being on the latter, which has a general direction of north and south, with the Sta. Ana coming in from the west. The town is small and compact, consisting of about ten or twelve squares only. It is comparatively new, there having been but a nondescript indian hamlet there before the highway was built. Now all houses are tile roofed and adobe. There is the usual plaza and church and cobble stone-paved, narrow streets. Two small hotels, one, the Tarija, with fair accommodations, but high prices.

There is a considerable area of low level land along the river which is irrigated, while on either side, and up the Sta. Ana for several miles are extensive bench-lands, used mostly for grazing, the whole area of bench lands being bare of trees. Small groves and lines of Acacias are found along the streams in which many species of birds are present. Back of the bench lands the mountains rise steeply for a couple of thousand feet or more and are for the greater portion covered with woodland, in places the lower slopes being cleared where not too steep. The prevailing soil over the whole region is red.

clay and red sandstone of a rather friable nature . The mountains are very precipitous as a rule, due to the friable nature of the formation. The bench lands are being eroded very rapidly and lost completely to cultivation of any sort, not even grass can get a foothold. The dry season is so long the the season of growth is very short, from November to April, only. Heavy frosts, combined with the long dry season, in the winter months cause almost all trees to drop their leaves and during September and October the forest is everywhere dry and leafless, except along the margin of the streams in sheltered places.

Eight days were spent here, six days in actual collecting. 192 specimens were collected consisting of 82 species, of which 27 were new for the year and 10 not previously taken in Bolivia.

The bird fauna here is a mixture of the species taken at all stations from San Lorenzo to Fortin Campero, even several from Oploca were taken here. (*Pitangus sulphuratus*; *Serpophaga subcristata*; *Phytotoma rutila*; *Catamenia analis*; *Molothrus badius* and *Molothrus bonariensis*, also *Columbin pui* and *Zenaida auriculata*). San Lorenzo was represented by 20 species; La Merced by 10; Rio Lipeo by 17; Bermejo by 4 species and Fortin Campero by 4 species.

The fauna of the open lands of the valley is very distinct from that of the forest, those of the forest being largely those taken at Rio Lipeo and Bermejo, while those of the open represent more those of San Lorenzo and La Merced.

In addition to the species collected, 30 others were observed (see list). Of these 30, 8 species have not up to now been collected (starred in list)



Entre Rios to Villa Montes.

Leaving Entre Rios, the road climbs into the hills to the northeast and from there on to the Pilcomayo river it winds in and out and up and down through low broken ranges of mountains which run more or less in a north and south direction. These mountains are all rather heavily wooded and average from 5 to 6,000 feet in altitude, I should say, though I took no aneroid readings. At this time most of the vegetation was without leaves, except in the bottom of the valleys. There is very little water in this whole sector (a distance of 155 kilometers), about three places on the road where small creeks of running water were present, at all of which were small settlements and military posts, the largest being at Cañadas and Palos Blancos. The latter place is in a large, nearly level plain, surrounded by low mountains and the trees are mostly rather low and tangles thorn scrub, the trees on the slopes of the mountains being always taller and with less undergrowth.

We left Palos Blancos about 4 P.M., but lost over an hour on the road repairing a brake drum and did not reach the Pilcomayo river until long after dark. The valley of the Pilcomayo is narrow and for most part precipitous, with many cliffs of imposing height with the road construction very heavy through that section. The river was muddy and slightly swollen from recent rains up in the mountains.

We reached Villa Montes at 11 P.M.

Villa Montes. (alt. 2,000 feet)

The present town of Villa Montes was formerly known as San Francisco (before the war), with the portion on the south side of the Pilcomayo river known as San Antonio. The altitude (according to my instrument) was 2,000 feet, which is probably not far from correct.

The town lies in a horseshoe shaped plain, with hills encircling it on the north side and also hills running down parallel to river on south side of river. The mountains (running north and south) rise abruptly about three miles or less behind it (to west) and the Pilcomayo river has cut its way through this high range. There is much cleared land to west of town (mostly a flying field) and also a large area to the east, which has considerable low shrubbery. This area extends from river across to hills to north.

About a mile west of the town begin the foothills which extend back about two miles to the base of the main high range. These foothills are heavily wooded,

with rather tall trees and not a great deal of undergrowth, although what there is is mostly thorny. Most of the trees in the hills were still bare of leaves, although fresh new leaves were just coming out on many of them in the lower portion.

East of the town, beyond the large cleared area the bush was unbroken and the land flat from river back to the low hills which more or less parallel it. On this flat the trees were mostly larger and more luxuriant, but mostly of the acacia family, and were at this time mostly in fresh leaf. Birds were, on the whole, rather abundant, and of an unusual number of species for so dry a region 91 species were collected and 25 others observed and identified with certainty. Of the 91 species taken, 26 were new for the year and 17 new for Bolivia.

I was dissatisfied at not finding more aquatic forms along the river, but there was practically nothing. One Tern was seen but not secured. Cormorants were rather plentiful, a few Spotted Sandpipers, one Little Green Heron. The river was very muddy, mostly with swift current and rapids and the shores with many boulders and much soft mud. The banks are high and precipitous on both sides, higher on south, and there are no low humid flood plains anywhere near Villa Montes. The presence of many troops there for the past five years and much discharge of fire-arms and artillery has doubtless driven away many species from the immediate vicinity which otherwise would have been there.

Laubmann records species from Villa Montes which I failed to find there, while I took species which he does not record from that Place, but some of them from other localities in the Chaco or the Dept. of Sta. Cruz. There were two showers of rain during the time we spent there (13 days), with several very cool and cloudy days with temperature down to 60 and 63 F. On the other hand there were three days of terrific heat, with a max. Temp. of 109 in the shade. I was told by the Doctor in charge of the Hospital and by Maj. Weeks that a couple of ~~days~~ weeks previously the temp was 116 in the shade for several days. I was reliably informed that the type of vegetation around Villa Montes is practically the same as further out in the Chaco, though probably somewhat more luxuriant than further out, that is taller trees and less thorny undergrowth.

#### Villa Montes to Camiri

The highway from Villa Montes north to Camiri (Standard Oil wells and refinery) follows along the base of the foothills, more or less, crossing occasional

low ranges of hills jutting out onto the plains.

The country is very similiar to that around Villa Mont with larger, taller trees on the hills and lower thicker scrub on the plains. About half way to Camiri the plain rises somewhat and the earth seems to be of an impervious clay in large patches, causing islands of savanna scattered about, while the intervening woodland is much lower and scrubbier.

About 35 miles south of Camiri the little village of Buyaibi is passed (mentioned in literature, or by Steinbach). There is another small hamlet further south, now occupied by the Paraguayans, who hold the road from about 20 miles north of Villa Montes to within a few miles of Buyaibi.

Some twenty miles south of Camiri the road swings west through a pass between the main range and an outlying range of high hills, and from there on passes through rather broken country, to Camiri, which is on the Rio Parapati (south bank) The Standard has a small camp there, no permanent houses, and employes were living in tent houses. No americans there at this time.

There is a considerable village to one side of the Oil Camp. The road from Camiri swings up stream a few kilometers and crosses the Rio Parapati on a new suspension bridge, then back down a short distance to the Military Post of Chorete. From here a road swings northeast to Santa Cruz and another north east to Sucre, by way of Muyopampa, Monteagudo and the Rio Azero.

Lagunillas. (alt. 3,500 feet)

The road from Chorete follows a long gently sloping valley northeast for a considerable distance, crossed a divide into head of another valley and across this up the Cuesta del Incahuasi, but shortly after crossing into this valley a road branches off to the right which follows down the valley and across to the foot of a high range of hills (rather mountains) at the foot of which lies Lagunillas. It is a small village, very old, with the houses made in the old massive style, many with round pillars supporting the verandas along the street side, under which run the sidewalks.

It took us all day to reach Camiri from Villa Montes. We slept there and next morning left at 9 A.M. for Chorete. A further delay there at the Posta and we left at 10 A.M., reaching Lagunillas about 1 P.M.

Collecting was started the next day. The valley above the village is somewhat broken, but with considerable level land, but below the town it widens out to nearly two miles, with a lower range of parallel

hills on east side. The valley runs nearly north and south, a little to east. There is no running water in valley and whole region is very dry. The formation throughout whole region is red sandstone and red sandy loam or sand and clay. The high range to west of town forms a series of high cliff along its face and there are no streams running out of it, except a few small springs, one of which furnishes water to the village being piped to the plaza. About a mile below town there is a deep, canyon-like valley running far back into the western range, enclosed on upper portion by high sandstone cliffs. At upper end of this valley a small creek is present which soon disappears into the sand of the floor of valley. There are numerous short, wide valleys or pockets in the hills on both sides of the valley, whose outer ends have been raised by silt flowing down the big valley, so that when it rains there are formed shallow ponds. Two days after our arrival here there fell a heavy downpour which filled some of these ponds but not all. It was at one of these that the pair of Ducks and the Herons were taken, and at which was a flock of about 25 Jacanas. There is permanently water at the upper end of this pond and a patch of cat-tails, but it was difficult to tell how much water was there before it rained. Much of the valley floor has been cleared and planted to corn etc (Corn just being planted now) However large areas are wooded with acacias and other trees, with much low, tangled thorny scrub. Along the sides of the valley there are more large acacias and most of these had new green leaves, also many out on plain, but up in the hills on both sides the trees are still mostly bare, but the buds are swelling rapidly on lower slopes after the recent rains. There had been one or two heavy rains about a week before we arrived. Birds were found to be abundant, a few species very common (see notes and list) and many species were taken or observed. In five days collecting 110 specimens were taken, representing 66 species while 43 other species were observed and identified without question. However but 10 species were added to the years list, of which 7 were new to the Bolivian collection. Many species taken or seen at Villa Montes were absent here. But 8 of the species new for Villa Montes were taken here, while 11 of those new at Entre Rios were taken. 7 new at Fortin Campero taken, but 2 of those from Vermejo (new there) and 15 species new at Rio Lipeo were taken. Perhaps more time spent here and collecting further afield would have given additional species, but the time was too limited.