

Voc  
W93



HARVARD UNIVERSITY

LIBRARY

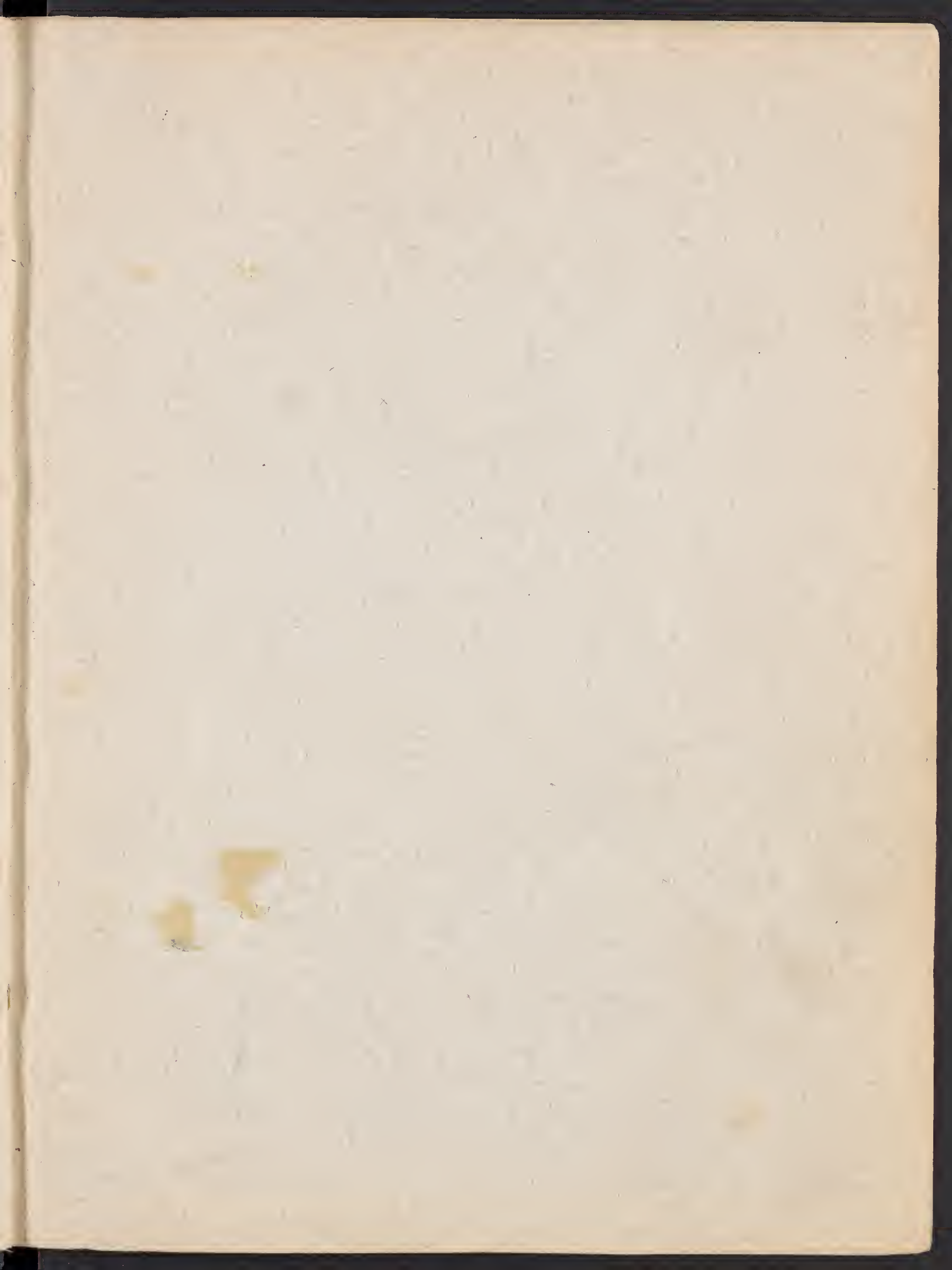
OF THE

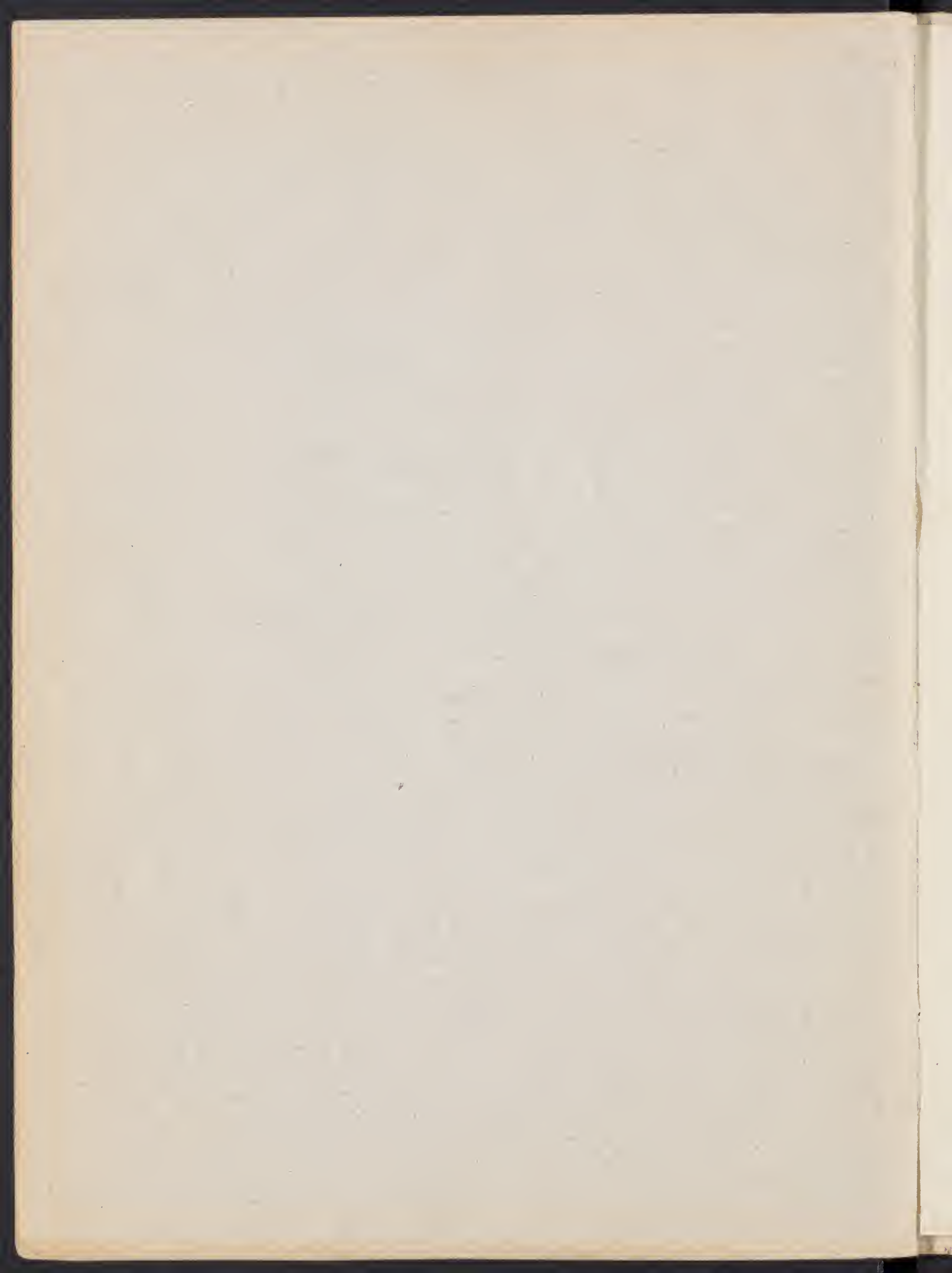
GRAY HERBARIUM

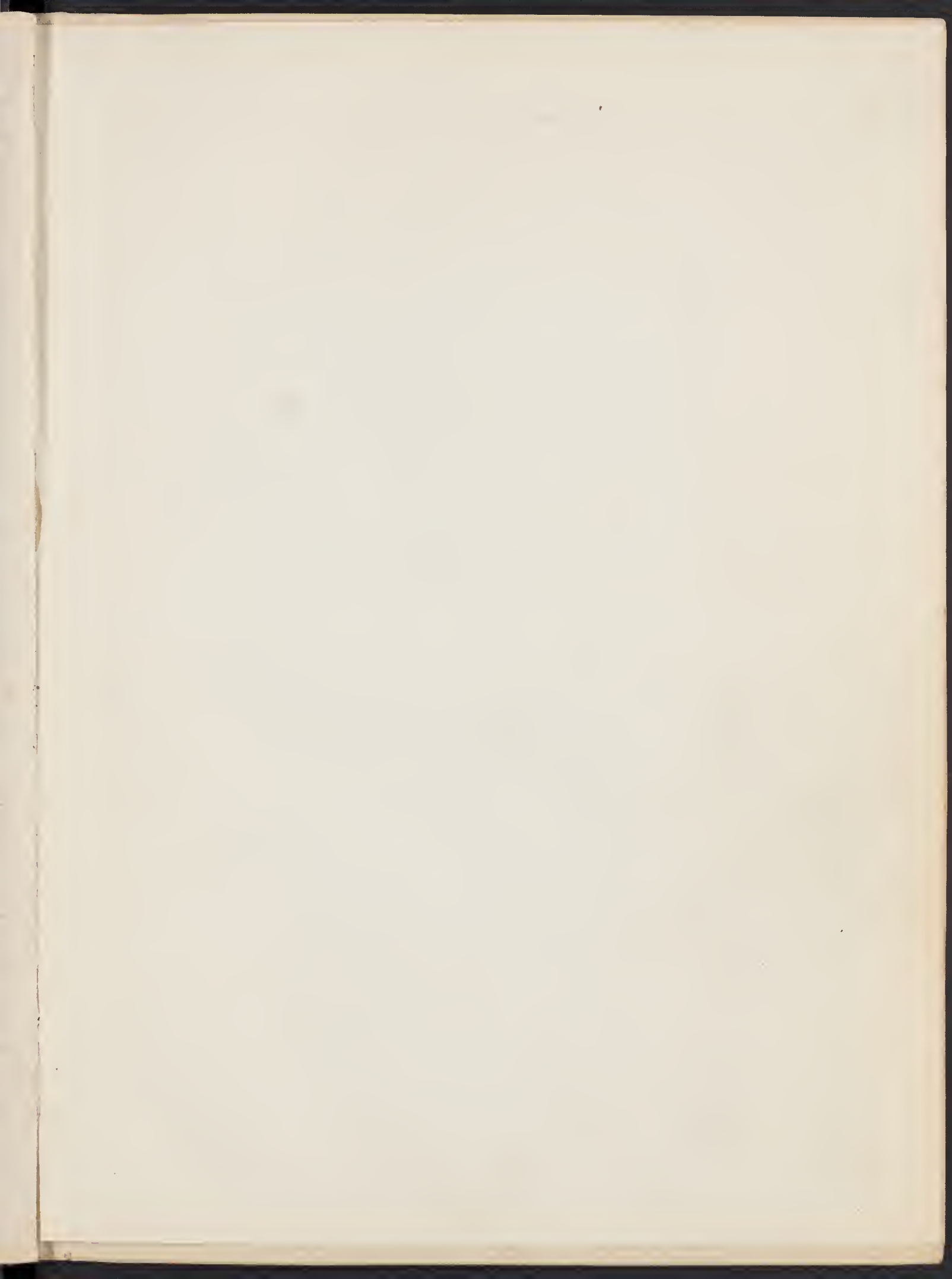
Received March 1940

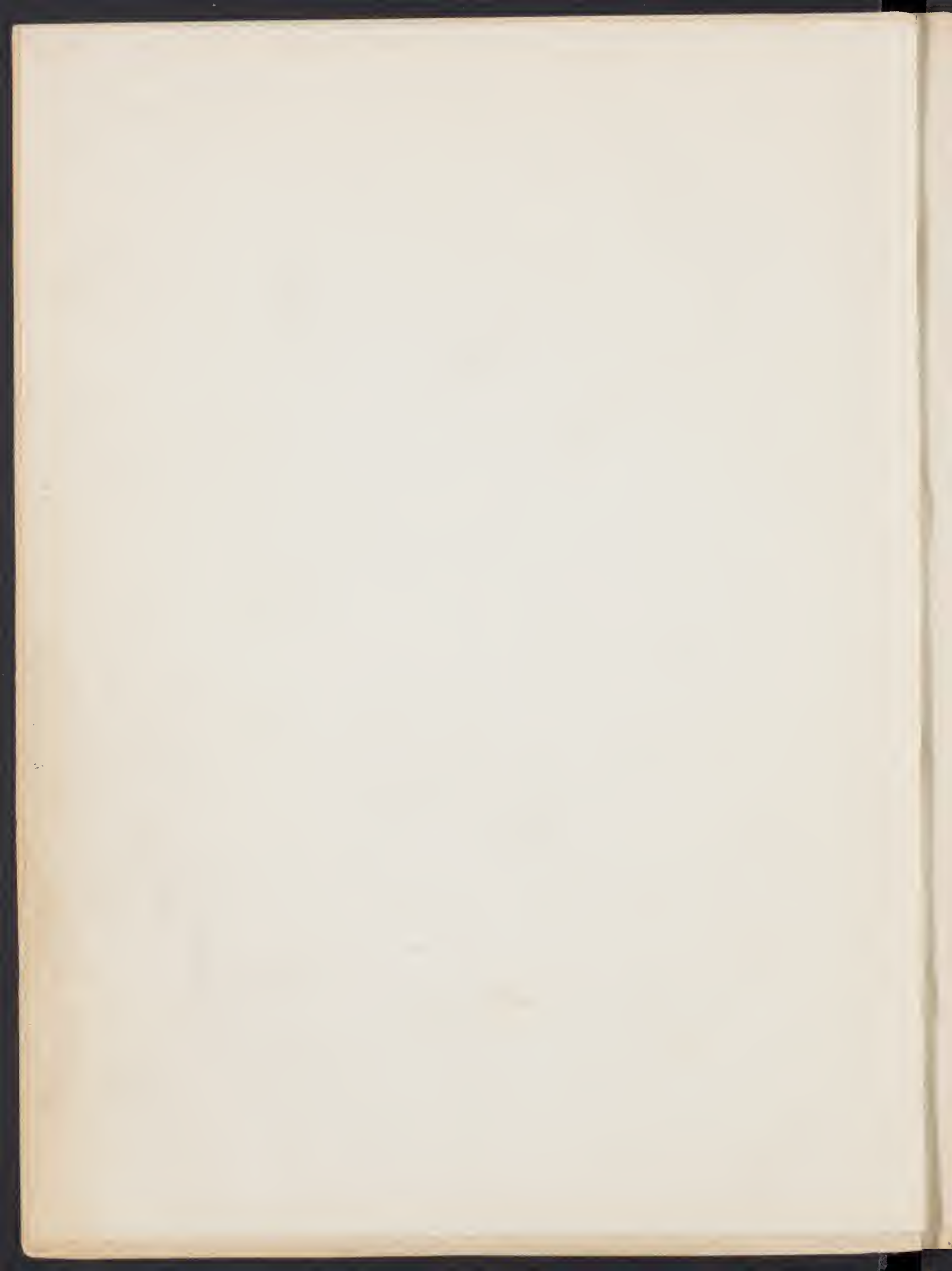
Gift of J. M. Johnston

Bd. Apr. 3, 1940









Field Notes of Charles Wright

for

1849 and 1851-52

relating to

collections from Texas, New Mexico, Arizona,

and adjacent Sonora and Chihuahua.

A copy with commentary

by

Ivan M. Johnston

February, 1940.





### Introduction

For a readable and useful account of Wright's life and of his botanical activities in Texas see account by S. W. Geiser, Naturalists of the Frontier 214-252, and 314 (1937). Wooten, Bull. Torr. Cl. 33: 12-17 (1886), studied Wright's field-lists and published a chronological list of the localities mentioned in them. Standley, Contr. U.S. Nat. Herb. 13: 143-246 (1910), has some notes on ~~the~~ Wright's <sup>itinerary</sup> ~~itinerary~~ in New Mexico and a list of new species he collected there. The notes on localities given by Wooten and by Standley, however, are not critical and some are incorrect. Additional data on Wright's collection may be found in the two published parts of Gray's Plantae Wrightianae.

With this transcript of Wright's field-notes I have given a running commentary concerning the precise location of places he visited. These notes are based, not only on the list itself, but on a consideration of contemporary documents, as well. The route has been followed on every large-scaled modern map available.

Much of Wright's collecting was done along the wagon road between San Antonio and El Paso. Practically all of his collection of 1849 was obtained along the road. Large parts of the first and third lots of his collection of 1851-52 were ~~also~~ obtained along it also. He was not always consistent as to the names of the localities at which he collected during his three traverses of this route. The detailed discussion of localities along the San Antonio - El Paso road I have given with his collections of 1849. Reference to this full discussion will be found in my notes regarding Wright's later collections from along the route.

Joan M. Johnston  
Feb. 1940 -

Faint, illegible text, possibly bleed-through from the reverse side of the page. The text is arranged in several paragraphs and is mostly obscured by blurriness and lightness.

### Wright's Field Lists

The following plant-lists are copied from manuscript lists sent to Gray by the collector. <sup>with some modifications of wording</sup> The numbers given are field-numbers assigned the collections by Wright. These numbers were disregarded by Gray when he made up Wright's plants into sets. The numbers on the labels of Wright specimens in herbaria belong to a new series assigned them by Gray, the set of distribution-numbers. Not only did Gray ignore Wright's field-numbers but he also frequently united and distributed under a single distribution-number, two or even more of the collections which <sup>Wright</sup> had collected under different field-numbers, frequently at distant stations, and at different seasons. If Gray thought two or more of Wright's collections represented the same species and if there was any advantage in uniting them, he did so regularly without scruples.

Many of the plants distributed by Gray can not be definitely associated with any of the numbers given in Wright's field-lists. Since Wright had a good knowledge of genera and families of Texan plants, his field identification and the geographical data given by Gray in the Plantae Wrightianae help one to make a reasonably good guess as to the precise identity of many collections. In the Gray Herbarium it is common to find, obscurely pencilled in the corner of the familiar blue label of the Wright collection, numbers which refer to the field-lists treated here. In the pocket of other collections frequently found there is a small bit of paper bearing Wright's original field-number, in the script of the collector, probably representing the tag which Wright placed with each collection as he assembled <sup>it</sup> them in the field. Following the sequence of Bentham & Hooker, Gray treated in the Plantae Wrightianae, I & II, the Dicot. families up to and including the Compositae. Gray appears to have considered that he had extracted all of value from the field-list for those collections treated in the Plantae Wrightianae, and as a general rule made little or no effort to

1848 with army to Rio Grande at Eagle Pass  
July - Sept (most collection Aug - Sept)  
San Antonio to near present day Uvalde and then  
cross-country SW to Eagle Pass and back in  
San Antonio late September 1848. No listing of  
these collections known.

effort to preserve Wright's field-ticket, or to note the proper field-number on the herbarium-label of these collections, It is on the specimens belonging to the families not treated in either of the two volumes of the Plantae Wrightianae that Gray usually saved the field-tag or hastily pencilled (sometimes incorrectly) ~~at~~ the field-numbers refering<sup>x</sup> to the present list.

It will be noted that the field-list consists of four gamuts of numbers, 1849, 1-1404; 1851, 1-579; 1852, 1-952; & 1852, 1-588. Gray had two different herbarium-labels, one for the collection of 1849, the other for the collections of 1851-52. Field-numbers found associated with the collections of 1849 are easily located in the list for 1849. The field-numbers for 1851-52 must be sought in Wright's three lists for that period. The collections for 1849 were distributed in 1850, and though representing 1404 numbers in Wright's list, ~~was~~<sup>were</sup> in Gray's distribution accomodated<sup>m</sup> by numbers 1-828 (see transcript of Gray's letter of May, 30, 1850). Gray apparently sorted and arranged Wright's collections in systematic order (following Bentham & Hooker) and numbered them in systematic sequence. Those plants representing the sequence of families Ranunculaceae-Compositae, and belonging to the first two lots of Wright's collections of 1851-52 (collected betw. S. Antonio and El Paso, and west in New Mexico and Arizona), usually bear numbers in the gamut, 830-1300. The remaining plants of the total 1851-52 collection, representing families beyond the Compositae, as well as the Ranunc.-Compositae of the third lot of this collection, apparently always bear numbers above 1300.

The extent to which Gray united collections is well shown by his treatment of <sup>to</sup> collections of 1849. In that year ~~Wright~~<sup>Wright</sup> made 1404 separate collections. These, supplemented by some of Wright's earlier collections (made about Eagle Pass in 1848), made only 828 collections when distributed by Gray. This of course does not take in<sup>to</sup> account the unicates, which Gray retained and did not number, but, even so, it indicates that about half of the specimens Gray distributed must

[The text on this page is extremely faint and illegible. It appears to be a standard page of prose with several paragraphs of text. The content is not discernible.]

4

be ~~a~~ mixtures of two or more collections, made at different places <sup>and</sup> at different times by Wright. The great number of cases to be found in the Plantae Wrightianae in which Gray cites only a ~~single~~ number, yet mentions two or more localities, gives further evidence of his practice of distributing a deliberate mixture of two or more of Wright's collections under a single distribution-number.

There is a valuable "barometric profile" of the San Antonio - El Paso road with distances, localities, altitudes etc. in Graham's report.



Wright's collections of 1849

During the spring of 1849 a route had been discovered which was practicable for a new southern wagon-road between San Antonio and El Paso. A government party of soldiers and road-builders left San Antonio the first of June, 1849, <sup>to</sup> put this road into commission. Wright accompanied this party but had no official connection. His botanizing was ~~carried out~~ carried on under discouraging conditions. The official report of the expedition, by Capt. S.G. French, pp. 40-54, and others, is found in Senate Executive Documents, 1st Sess., 31st Congress, vol. 14, no. 64 (1850). There is a copy <sup>of this report</sup> in the Arboretum Library. This report gives a map, milages, and descriptive details of the area in which Wright botanized as the road was slowly pushed through to El Paso. The party arrived in El Paso ~~about the 10th of~~ September, and after remaining there nearly a month, returned via the Guadalupe Mts, the Pecos, and Devils River, to San Antonio. An interesting account of Wright's work during this expedition, with itinerary, and personal details has been given by S.W. Geiser, Field & Lab. 4: 23-32 (1935). There are a few mistakes in details in this article., but no important ones.

All the plants collected in 1849 were obtained within the state of Texas, with the possible exception of a few that might have come from just over the New Mexican line in the vicinity of the Guadalupe Mountains.

The collection was received by Gray in Feb. 1850.

The first part of the report deals with the general situation of the country, and the progress of the various branches of industry and commerce. It is found that the country is generally prosperous, and that the various branches of industry and commerce are all making rapid progress. The agriculture is particularly flourishing, and the various manufactures are all increasing in quantity and quality. The commerce is also very active, and the various ports are all busy with shipping. The population is also increasing rapidly, and the various towns and cities are all becoming more and more populous.

The second part of the report deals with the various branches of industry and commerce, and the progress of each. It is found that the agriculture is particularly flourishing, and that the various manufactures are all increasing in quantity and quality. The commerce is also very active, and the various ports are all busy with shipping. The population is also increasing rapidly, and the various towns and cities are all becoming more and more populous.

The third part of the report deals with the various branches of industry and commerce, and the progress of each. It is found that the agriculture is particularly flourishing, and that the various manufactures are all increasing in quantity and quality. The commerce is also very active, and the various ports are all busy with shipping. The population is also increasing rapidly, and the various towns and cities are all becoming more and more populous.

The fourth part of the report deals with the various branches of industry and commerce, and the progress of each. It is found that the agriculture is particularly flourishing, and that the various manufactures are all increasing in quantity and quality. The commerce is also very active, and the various ports are all busy with shipping. The population is also increasing rapidly, and the various towns and cities are all becoming more and more populous.

The fifth part of the report deals with the various branches of industry and commerce, and the progress of each. It is found that the agriculture is particularly flourishing, and that the various manufactures are all increasing in quantity and quality. The commerce is also very active, and the various ports are all busy with shipping. The population is also increasing rapidly, and the various towns and cities are all becoming more and more populous.

The sixth part of the report deals with the various branches of industry and commerce, and the progress of each. It is found that the agriculture is particularly flourishing, and that the various manufactures are all increasing in quantity and quality. The commerce is also very active, and the various ports are all busy with shipping. The population is also increasing rapidly, and the various towns and cities are all becoming more and more populous.

Regarding Gray's distribution of Wright's collections of 1849.  
(data from Gray's letters to Wright)

In letter of Jan 2, '50, Gray acknowledges receipt of catalogue, and in Feb. 10, '50 the receipt of the collection (8 bundles & 2 boxes)

In Gray's letter of May 30, '50 he gives the following data regarding the sets, -  
"In the distribution of your sets the highest number is 828. This runs through my set, Lowell's, and the Smithsonian's. Then Bentham's (which I pay for) is 680, Harvey's 690, Hooker's 650, Fielding's 644, B.L. Greene's 631 (as he advanced \$50 that leaves only \$13 coming from him), British Museum 519, Webb's 453 (these two last are not engaged but I hope they will take them; I shall carry them abroad for the purpose). A set I have offered to Durand contains 498. As he bought a former Texan collection from you which contains many of the same things and has also Lindheimer's, I have written to him offering this set for \$40, should he decline I shall try to dispose of it abroad for \$50 but there will be some expenses. In the distribution I have used <sup>d.</sup> those collected between Galveston and San Antonio where they held out well, also I have used the Rio Grande plants [i.e. the Eagle Pass collection of 1848] and others of the old collection. Here after do not send those collected in Texas or any formerly collected, as they deteriorate your sets. Every one of our subscribers have them from Drummond and Lindheimer before. It was not well thought of to send that Texan bundle, as they are of no use, except that I have used a few to eke out other sets. For the rest, Torrey's set is 433 specimens; when the specimens run short his are always scraps (those go against his paper etc.). To Engelmann I have sent a number of supernumeraries and plants which I want him to study. DeCandolle's set amounts to 410 specimens. These I have offered to him as you proposed in exchange for the Prodromus. I shall bundle up the other Texan plants remaining here and send ~~them~~ to DeCandolle with them. I have not time to total their number now but must do that at intervals of leisure while I am at Geneva this summer. The above enumeration takes all your collections. Supernumeraries of interesting plants are thrown into my set from which specimens can be taken here after for yourself.

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side of the document. The text is too light to transcribe accurately.]

If Durand, Webb, and the British Museum take the sets saved for them they will all be off your hands at once. I sent by private hands some of the earlier numbers of the set to Bentham and have got the returns of the Leguminosae, which I asked him to elaborate; they have much novelty and interest." All the mosses <sup>were</sup> sent to Sullivent and all lichens to Tuckerman

Note: Wright's catalogue for 1849 contained 1404 numbers. This large collection, plus some of Wright's earlier collections added to it, was made up into sets the most complete of which only contained 828 numbers. In other words Gray united collections of a species, from 2 or more localities, and issued them under a single distribution-number. Wright apparently received ten cents a specimen.

There is a copy of Bartlett's Narrative at the Arboretum &  
a copy of Graham's Report ("TNA-G") at the Mus. Comp. Zoology.

Charles Wright's collections of 1851-52

The collections of this period were made when Wright was associated with the Mexican Boundary Commission. He joined the party of Col. J.D. Graham at San Antonio in May 1851 and travelled to El Paso on the southern wagon-road. He reached El Paso the end of June, 1851, having collected 579 numbers, along the same route he had explored, between June 1st and Sept. 12th, 1849. This first lot of plants was shipped to Gray soon after his arrival in El Paso. Gray received it Dec. 4, 1851. After collecting about El Paso for several weeks, Wright accompanied Graham, who had to report to Commissioner Bartlett, on a journey to Santa Rita (the Coppermines), New Mexico. The party remained at Santa Rita until late in August, 1851, when Graham's party (with Wright, as "Botanist and Assistant Computer") and Bartlett's party (with Thurber) travelled west for a meeting with the Mexican Commissioner Gen. Garcia-Conde. This turned out to be a series of misadventures. The meeting took place much farther west than expected, provisions ran short, and Bartlett, with Graham following, got beautifully lost in the Huachucas trying to find the road to Santa Cruz, Sonora, for new provisions. Wright, who was along, however, did have the chance to do some fine botanizing. The trip from Santa Rita to Santa Cruz is described, day by day, in John R. Bartlett's, Personal Narrative (1854-56), and in Graham's report, Exec. Doc. Senate, 1st sess., 32nd Cong. vol. 15, no. 121 (1852). The party returned to Santa Rita early in October, 1851, and was back in El Paso the first week in November. Bartlett and Graham having failed to accomplish anything, the latter was recalled to Washington in October 1851. He left El Paso in November taking with him the second lot of Wright's plants (952 numbers). Graham delivered them to Gray June 4, 1852. Wright was next under Major Emory, who replaced Graham, and was put to work surveying with partial time for botanizing. The collections in the third lot of Wright's collection date from Feb-July 1852, Many of these are from the vicinity of El Paso,

(over)

nearly a hundred are from the Organ Mts. and adjacent Ft. Fillmore north of El Paso, and about fifty from northern Chihuahua south and southwest of El Paso. The Boundary Survey having gone bankrupt under the flighty Bartlett, Wright left El Paso the middle of June, 1852, and returned via the southern wagon-road to San Antonio, arriving there a month later. Almost a half of Wright's third lot of plants was collected along the El Paso - San Antonio road. Emory claimed this third lot of the Wright collections and it was not placed in Gray's hands until Sept. 1852.

The region collected by Wright in 1851-52 after he reached El Paso is well described by Bartlett's in his lengthy "Narrative". While Wright accompanied Bartlett only on the trip from Santa Rita to Santa Cruz, Bartlett, having apparently considered his appointment of Commissioner as an invitation to gad about the country, managed to visit at one time or another most of the localities botanized by Wright. Bartlett's Narrative is most helpful in determining the nature and conditions of the country visited by Wright. Graham's report is useful only for the data on the Santa Rita to Santa Cruz trip, and even it is less detailed than Bartlett's.



9

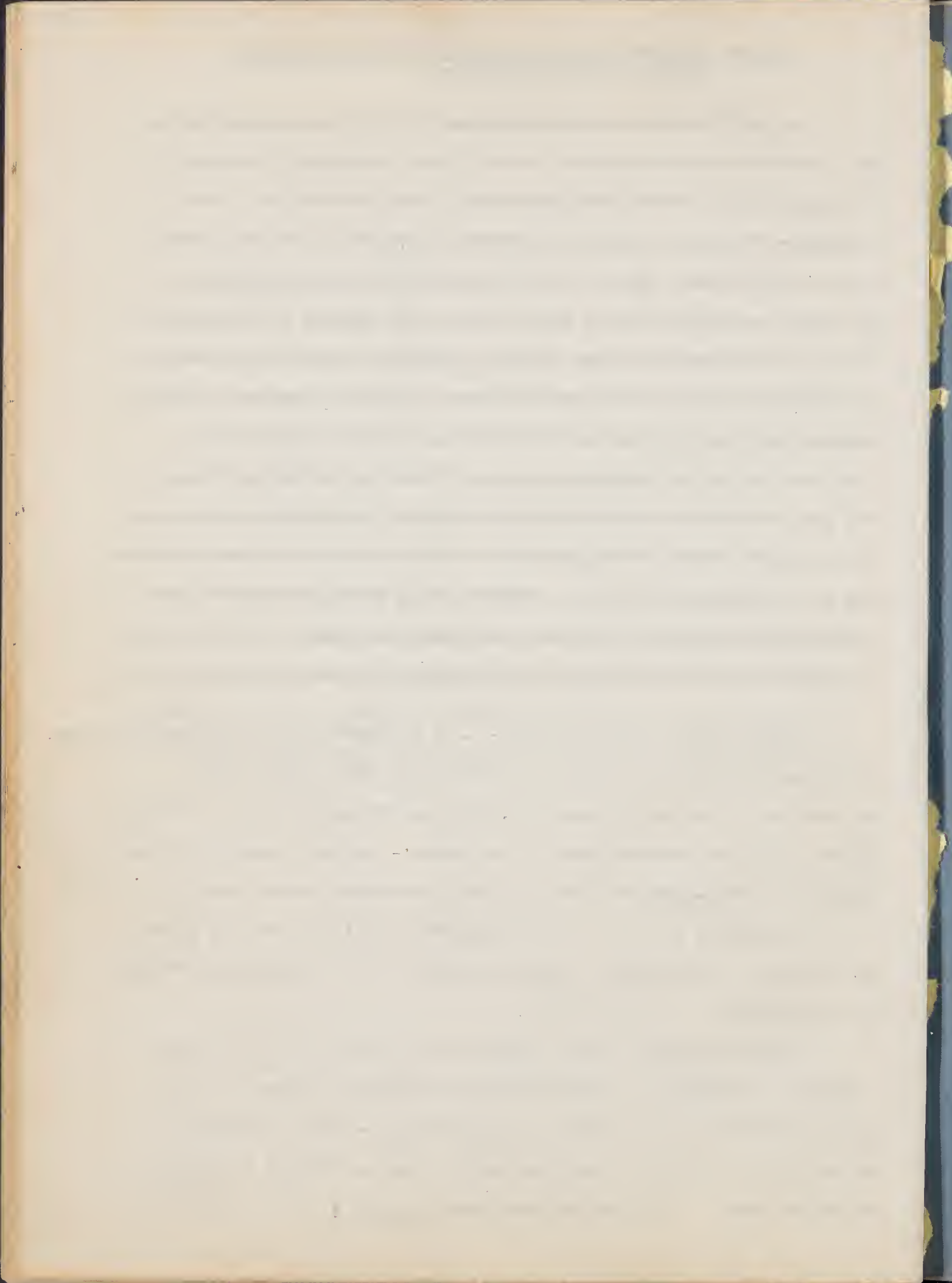
Excerpts from Gray's letters regarding 1851-52 collection  
and the Plantae Wrightianae

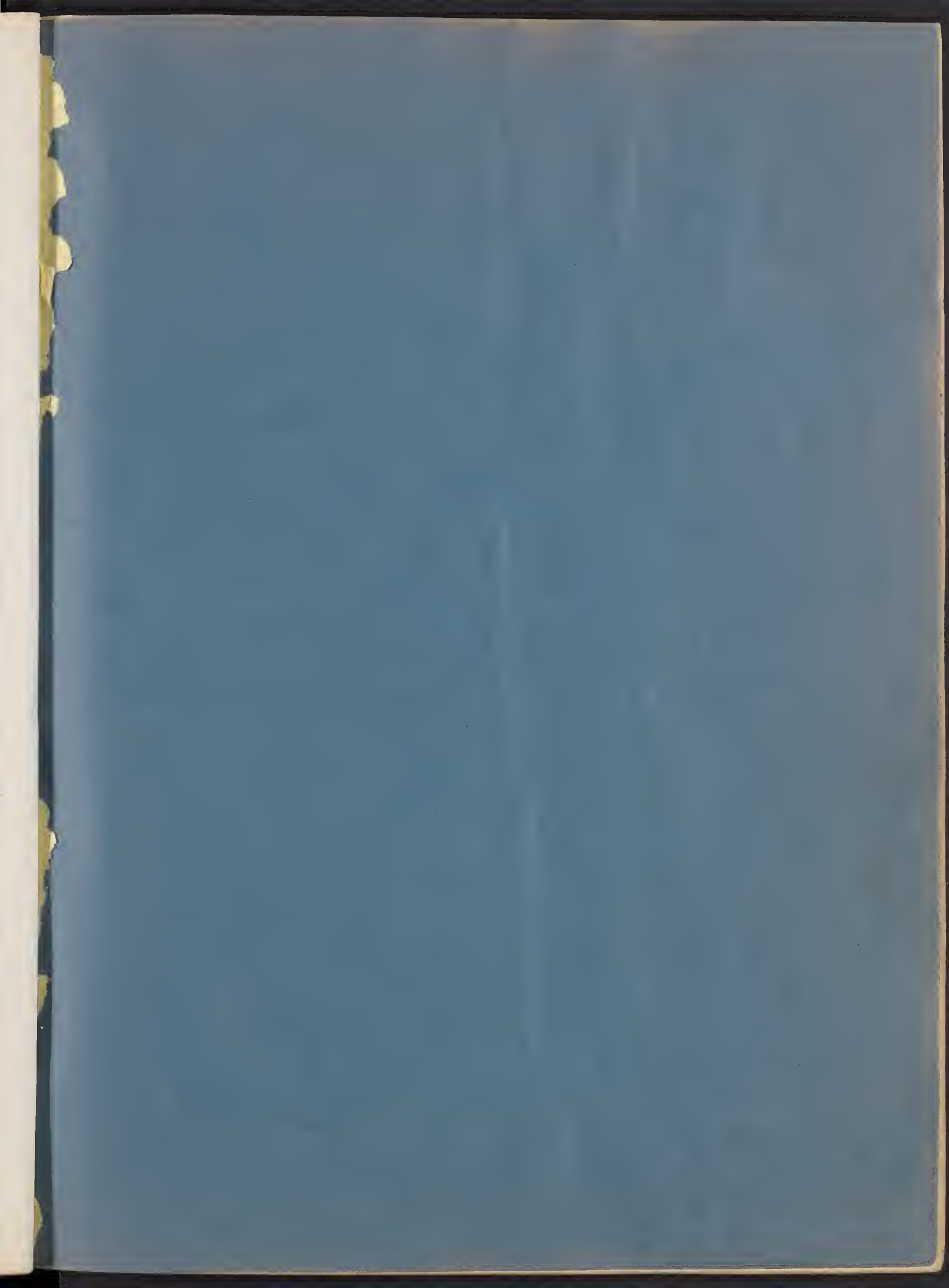
In Gray's letter to Wright, dated June 5, 1852, he announces that he has just received the second lot of the 1851-52 collections, delivered by Graham, and has received the plant-list by mail (from Wright). He continues, - "I think I shall distribute thus, 1) a full set saved up for yourself, 2) Dr. Short, 3) Dr. Torrey (selection, what he will need), 4) Mr. Lowell (especially those he has not before), 5) Hooker, 6) Mr. Boissier (who had none before and will pay well), 7) Engelmann (especially his favorite families), 8) Mr. Carey (if he will subscribe and pay), 9) Bentham ( I shall take some for him), 10) some one of the foreign subscribers, 11) etc. "

A set also went to the Government according to agreement with Col. Graham. Gray also wrote, "I shall somehow distribute your 1851 collections very soon; name them up to the end of Compositae and in the course of the summer determine many of the Monopetalous families. I have already named and described a few of these and some Apetalae to please Col. Graham, and named a new Pentstemon after him (which I have growing too) which compliment seems to gratify him."

Gray's letter of Jan. 23, 1852, - "...I am printing on the Plantae Wrightianae, the 1st part of which (as I work in so much general matter, especially Tex.-Mexican) to the end of Compositae, will make 225 pages or more, with 10 plates — the most important memoir I ever wrote — and will indelibly fix our names on the Texas-N.Mexican Flora. I mail you herewith sheets numbered 3, 4, 5, and when I go down to the Printing Office will send you 2 or 3 more, and the rest as they come off. You will see that I work in novelties from the new collection." *last part 1852*

Gray in his letter of June, 7, 1850 wrote, "I send you the first sheet of Plantae Wrightianae". In May, 6, 1850 he had written, - "I begin to print Plantae Wrightianae, quarto, before I go [to Europe] — study in England — and publish the rest this autumn with several figures. Sprague is already at work on them." Gray returned from Europe Sept. 1851.



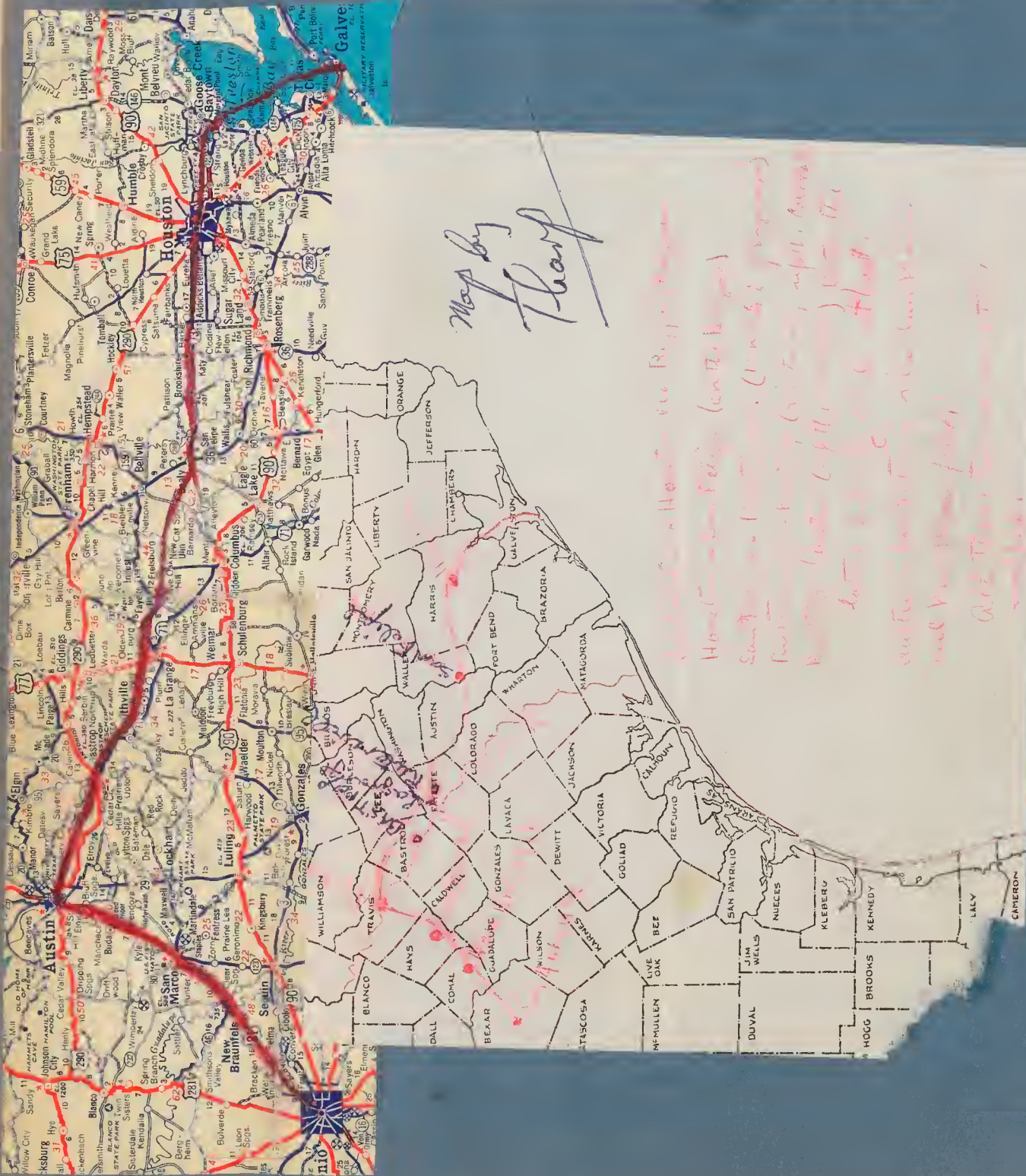


I am enclosing a part of a Texaco road map for Texas on which I have drawn in what seems to be the most probable route taken by Wright from Galveston to Austin. On this map I think you will find all of the points mentioned in Wright's account. I thought this map might be better than the scant outline I used in my letter a day or two ago.

Jan 16, 1941

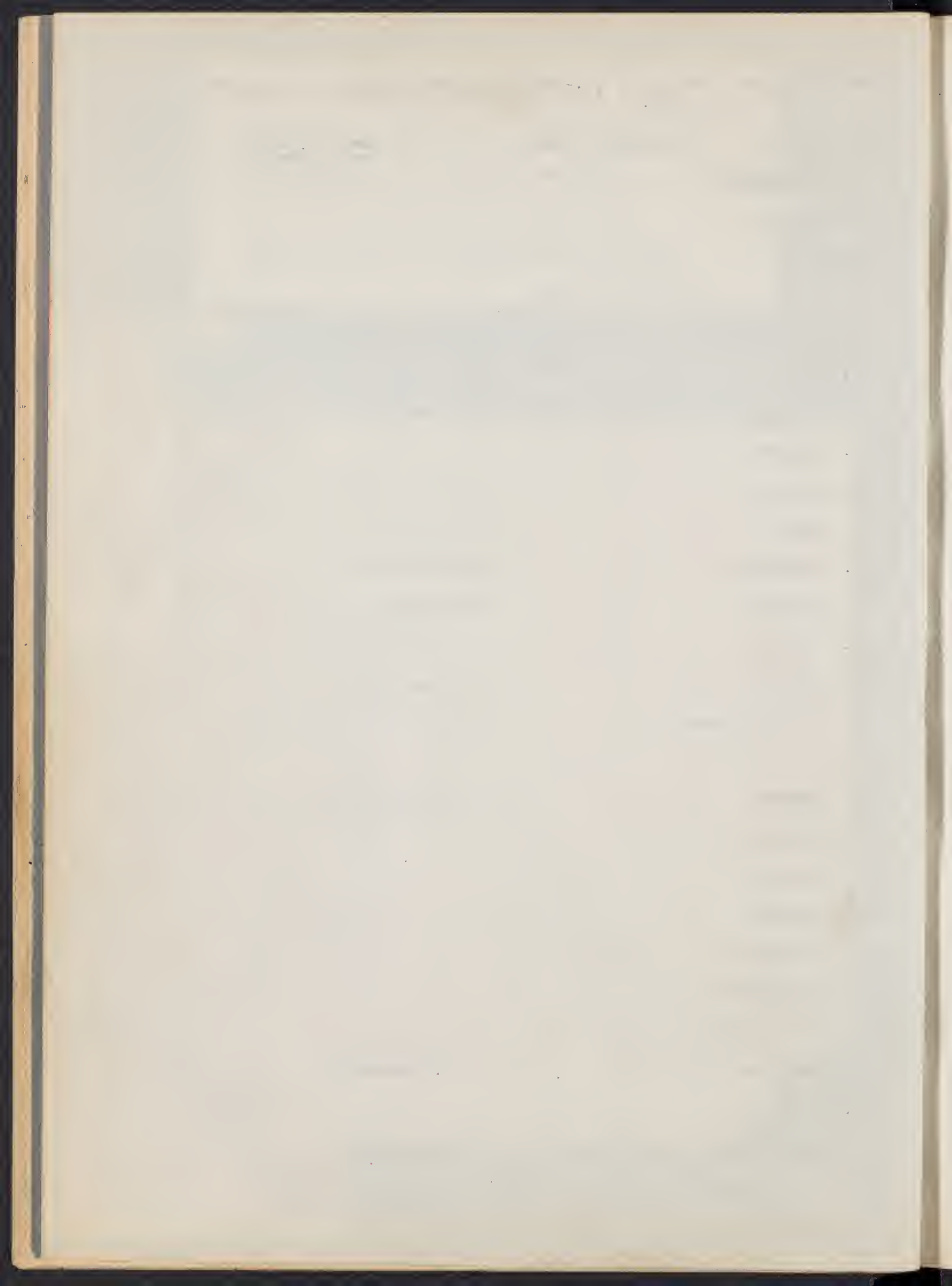
Cordially yours,

*B. G. Karp*

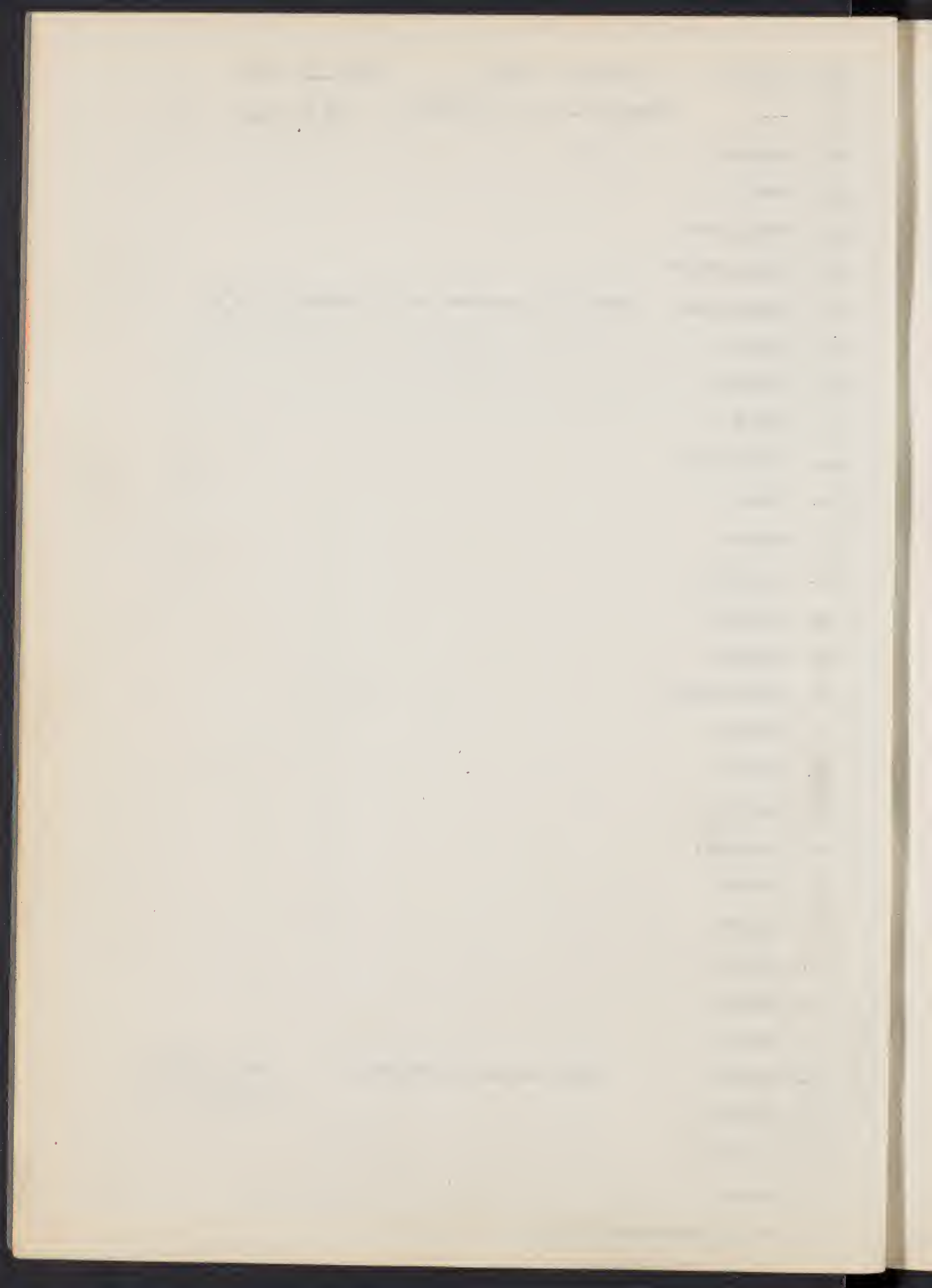


Charles Wright journey of Apr.-Oct. 1849; For itinerary see Geiser Field & Lab  
4: 23-32 (1935).

	Galveston Island	Apr. 28, 1849
1. Drosera		
2. Chelidonium	" "	
3. Baptisia	" "	
4. ----	" "	
5. -----	" "	
6. Scrophulariaceae	" "	fl light purpl.
7. Neottia	" "	
8. Samolus	" "	fl, white
9. Cyperus	" "	
10. Galium	" "	
11. Malva	" "	
12. Trifolium	" "	T. macrocalyx?
13. Erigeron	" "	E. scaposum
14. -----	" "	
15. Samolus	" "	fl light purp.
16. Tillea Drummondii ?	" "	
17. -----	" "	
18. Sabbatia	" "	S. angularis
19. Coreopsis	" "	
20. -----	" "	
21. Paspalum	" "	
22. Plantago	" "	
23. Cyperaceae	" "	
24. Cyperaceae	" "	
25. Oenothera	" "	O. Drummondii ?
26. Linum	" "	
27. Petalostemon	" "	
28. Sisyrinchium	" "	
29. Heliotropium	" "	



30.	Psoralea	Galveston Island	April 28, 1949
31.	-----	Travis Co., west of Houston	May 5, 1949
32.	Coreopsis	" " " "	"
33.	Carex	" " " "	"
34.	Amaryllidac.	" " " "	"
35.	Dracocephalum ?	" " " "	"
35.	Umbelliferae	Travis Co., prairies west of Houston	M.5, '49
37.	Aletris	" " " "	"
38.	Erigeron	" " " "	"
39.	Juncus	" " " "	"
40.	Umbelliferae	" " " "	"
41.	Carex	" " " "	"
42.	Cyperus	" " " "	"
43.	Actinella ?	" " " "	"
44.	Panicum ?	" " " "	"
45.	Cyperus	" " " "	"
46.	Rhynchospora	" " " "	"
47.	Panicum	" " " "	"
48.	Verbena	" " " "	"
49.	Neottia	" " " "	"
50.	Plantago	" " " "	"
51.	Urtica	" " " "	"
52.	Scirpus	" " " "	"
53.	Kyllingia	" " " "	"
54.	Scleria	" " " "	"
55.	Scleria	" " " "	"
56.	Lupinus	prairies near the Brazos	May, 6, 1849
57.	Hedyotis	" " "	"
58.	Oenothera	" " "	"
59.	Apogon	" " "	"
60.	Krigia occidentalis	" " "	"





- 61. Aster prairies near the Brazos
- 62. Rumex " " "
- 63. Actinella ? " " "
- 64. Galega " " "
- 65. Lespedeza " " "
- 66. Desmodium " " "
- 67. Paspalum " " "
- 68. Erigeron " " "
- 69. Polygala " " "
- 70. Paspalum " " "

May, 6, 1849

(Walden)

- 71. Oenothera prairies near the Brazos, east side

May 6, 1949

- 72. Oenothera tripetala " " " "
- 73. Pinus " " " "
- 74. Phlox " " " "
- 75. Loefflingia " " " "
- 76. Paronychia ? " " " "
- 77. Coreopsis " " " Sandy mounds
- 78. Aster " " " "

(Sandy mounds)

- 79. Apogon " " " "
- 80 Psoralea " " " "
- 81. Lathyrus " " " "

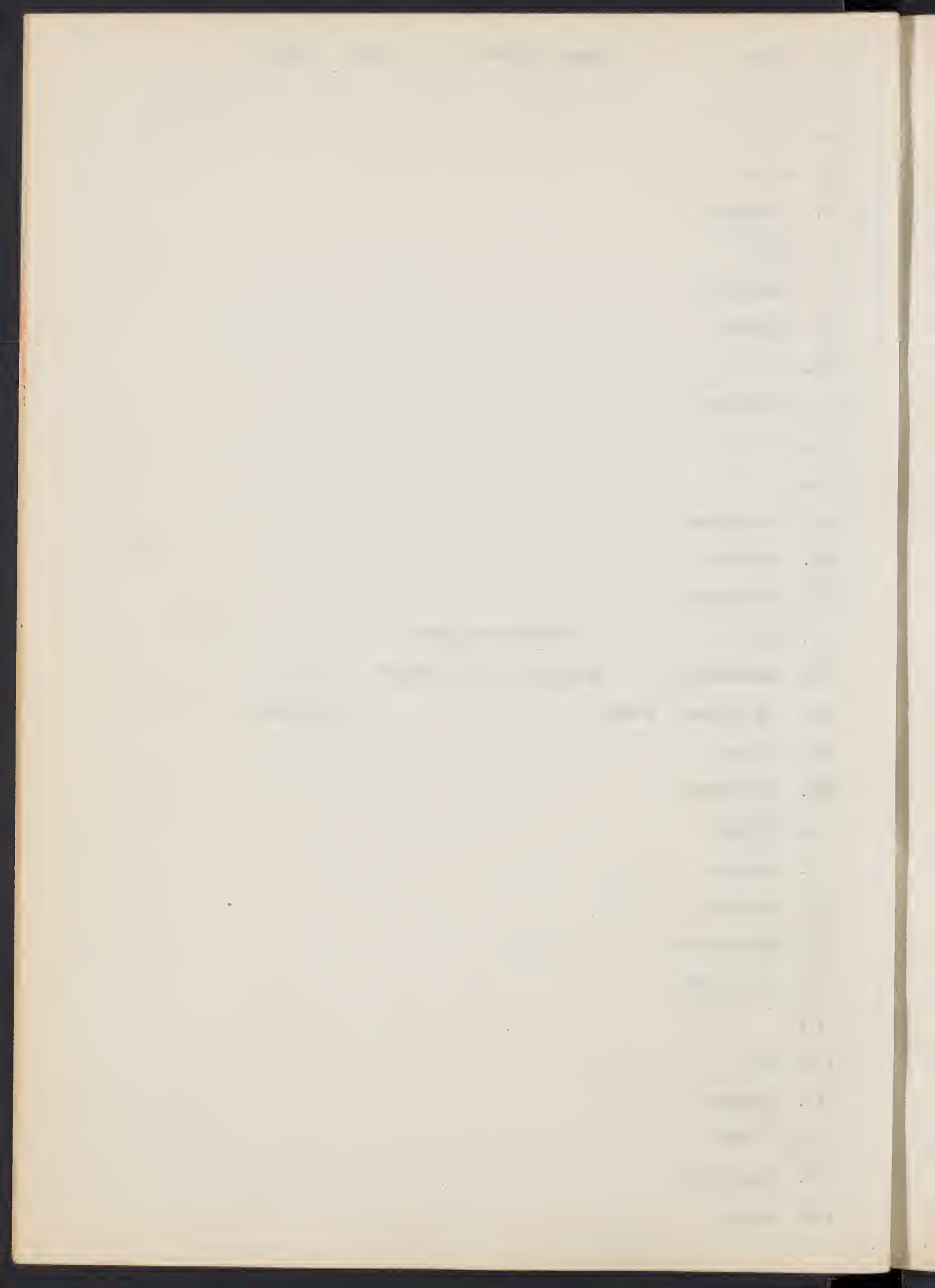
May 7, 1949

- 82. ----- Brazos bottoms

- 83. ----- " "
- 84. Carex " "
- 85. Tillandsia " "
- 86. Cerastium " "
- 87. Galium " "
- 88. Umbelliferae " "
- 89 " " "
- 90 Compositae " "
- 91. " " "



92. Carex Brazos bottom May 7, 1949
93. "
94. "
95. -----
96. Sanicula
97. Geum
98. Gramineae
99. Plantago
100. -----
101. Gramineae
102. "
103. "
104. Cruciferae
105. Urtica
106. Ranunculus
107. Salix Brazos river bank
108. Engelmanna prairies west of Brazos
109. Echinacea black rays purp.
110. Gaura
111. Cyperaceae
112. Scirpus
113. Cyperus
114. Scirpus
115. Rhynchospora
116. Umbelliferae
117. "
118. Cyp
119. Gramineae
120. Carex
121. Gramineae
122. Carex



- 123. *Coreopsis* wet prairies west of the Brazos
- 124. *Gaura tripetala* prairies west of the Brazos
- 125. *Scleria*
- 126. *Verbena*
- 127. *Psoralea*
- 128. ----- minor
- 129. *Isolepis* ?
- 130. *Rhynchospora*
- 131. *Salvia azurea*
- 132. Compositae
- 133. Gramineae sandy post-oak woods, Crump's ferry - Bellville
- 134. *Isolepis* ? sandy wet soil
- 135. *Paspalum* sandy post-oak woods
- 136. *Hypericum* Prairies
- 137. Gramineae sandy post-oak woods
- 138. *Plantago* " " "
- 139. Gramineae " " "
- 140. " " " "
- 141. *Desmodium* } Found growing together in sandy
- 142. " } post-oak woods
- 143. Nyctagineae sandy post-oak woods
- 144. *Carex* springy place in post-oak woods
- 145. *Scirpus* streams in post-oak woods
- 146. *Cyperus* " " "
- 147. Umbelliferae " " "
- 148. *Carex* " " "
- 149. *Panicum* " " "
- 150. Umbelliferae springy places post-oak woods
- 151. *Carex*
- 152. Cruciferae sandy post-oak woods
- 153. *Cyperus* " " "

May 7, 1849

May, 8, 1849

(Austin Co)

(Austin Co)

Page	Chapter	Page
1	Introduction	1
2	Chapter I	2
3	Chapter II	3
4	Chapter III	4
5	Chapter IV	5
6	Chapter V	6
7	Chapter VI	7
8	Chapter VII	8
9	Chapter VIII	9
10	Chapter IX	10
11	Chapter X	11
12	Chapter XI	12
13	Chapter XII	13
14	Chapter XIII	14
15	Chapter XIV	15
16	Chapter XV	16
17	Chapter XVI	17
18	Chapter XVII	18
19	Chapter XVIII	19
20	Chapter XIX	20
21	Chapter XX	21
22	Chapter XXI	22
23	Chapter XXII	23
24	Chapter XXIII	24
25	Chapter XXIV	25
26	Chapter XXV	26
27	Chapter XXVI	27
28	Chapter XXVII	28
29	Chapter XXVIII	29
30	Chapter XXIX	30
31	Chapter XXX	31
32	Chapter XXXI	32
33	Chapter XXXII	33
34	Chapter XXXIII	34
35	Chapter XXXIV	35
36	Chapter XXXV	36
37	Chapter XXXVI	37
38	Chapter XXXVII	38
39	Chapter XXXVIII	39
40	Chapter XXXIX	40
41	Chapter XL	41
42	Chapter XLI	42
43	Chapter XLII	43
44	Chapter XLIII	44
45	Chapter XLIV	45
46	Chapter XLV	46
47	Chapter XLVI	47
48	Chapter XLVII	48
49	Chapter XLVIII	49
50	Chapter XLIX	50
51	Chapter L	51
52	Chapter LI	52
53	Chapter LII	53
54	Chapter LIII	54
55	Chapter LIV	55
56	Chapter LV	56
57	Chapter LVI	57
58	Chapter LVII	58
59	Chapter LVIII	59
60	Chapter LIX	60
61	Chapter LX	61
62	Chapter LXI	62
63	Chapter LXII	63
64	Chapter LXIII	64
65	Chapter LXIV	65
66	Chapter LXV	66
67	Chapter LXVI	67
68	Chapter LXVII	68
69	Chapter LXVIII	69
70	Chapter LXIX	70
71	Chapter LXX	71
72	Chapter LXXI	72
73	Chapter LXXII	73
74	Chapter LXXIII	74
75	Chapter LXXIV	75
76	Chapter LXXV	76
77	Chapter LXXVI	77
78	Chapter LXXVII	78
79	Chapter LXXVIII	79
80	Chapter LXXIX	80
81	Chapter LXXX	81
82	Chapter LXXXI	82
83	Chapter LXXXII	83
84	Chapter LXXXIII	84
85	Chapter LXXXIV	85
86	Chapter LXXXV	86
87	Chapter LXXXVI	87
88	Chapter LXXXVII	88
89	Chapter LXXXVIII	89
90	Chapter LXXXIX	90
91	Chapter LXXXX	91
92	Chapter LXXXXI	92
93	Chapter LXXXXII	93
94	Chapter LXXXXIII	94
95	Chapter LXXXXIV	95
96	Chapter LXXXXV	96
97	Chapter LXXXXVI	97
98	Chapter LXXXXVII	98
99	Chapter LXXXXVIII	99
100	Chapter LXXXXIX	100
101	Chapter LXXXXX	101

154. *Diodia* sandy post-oak woods, between Brazos & Mill Cr. May, 9, 1949
155. *Carex*
156. *Capsella*
157. *Coreopsis*
158. *Echinacea* with whitish rays; post-oak woods
159. *Desmodium* in wet places in post-oak woods
160. *Isolepis* ? wet sandy post-oak woods
161. *Halea* ? " " " "
162. *Eriocaulon* springy places, post-oak woods
163. *Hypericum* " " " "
164. *Iridaceae* post-oak woods
165. *Tradescantia* " "
166. *Commelina* " "
167. *Erythraea* "" "
168. *Galardia bicolor* " "
169. *Cyperus retrofractus* " "
170. *Scleria* " "
171. *Onosmodium* black-land prairies (Fayette Prairie) B. + P. 1949
172. *Brazoria* " "
173. *Scutellaria* " "
174. *Boraginaceae* " "
175. *Galium* " "
176. *Euphorbiaceae* " "
177. *Scirpus*
178. *Thalictrum* Cumming's Creek May, 10, 1849
179. *Asclepias* high prairies (Fayette Prairie)
180. *Pentstemon* sandy post-oak woods
181. *Equisetum* edge of thicket in black prairies
182. *Phlox Drummondii* sandy prairies
183. *Coreopsis*

Year	Month	Day	Event	Location	Notes
1880	Jan	1	...	...	...
1880	Jan	2	...	...	...
1880	Jan	3	...	...	...
1880	Jan	4	...	...	...
1880	Jan	5	...	...	...
1880	Jan	6	...	...	...
1880	Jan	7	...	...	...
1880	Jan	8	...	...	...
1880	Jan	9	...	...	...
1880	Jan	10	...	...	...
1880	Jan	11	...	...	...
1880	Jan	12	...	...	...
1880	Jan	13	...	...	...
1880	Jan	14	...	...	...
1880	Jan	15	...	...	...
1880	Jan	16	...	...	...
1880	Jan	17	...	...	...
1880	Jan	18	...	...	...
1880	Jan	19	...	...	...
1880	Jan	20	...	...	...
1880	Jan	21	...	...	...
1880	Jan	22	...	...	...
1880	Jan	23	...	...	...
1880	Jan	24	...	...	...
1880	Jan	25	...	...	...
1880	Jan	26	...	...	...
1880	Jan	27	...	...	...
1880	Jan	28	...	...	...
1880	Jan	29	...	...	...
1880	Jan	30	...	...	...
1880	Jan	31	...	...	...



184.	Carex	Creek bottoms	<u>May, 10, 1849</u>
185.	----	Cumming's Creek bottom	
186.	Lupinus	<u>Ruteville</u>	<u>May, 12, 1849</u>
187.	Compositae		
188.	Umbelliferae		
189.	"		
190.	"		
191.	Cyperus		
192.	Rudbeckia bicolor		
193.	Compositae		
194.	Scrophulariaceae		
195.	Compositae		
196.	Actinella		
197.	Cyperus		
198.	Indigofera		
199.	Pentstemon		
200.	Leguminosae	from a cultivated plant, but native of W. Texas	
201.	Cyperaceae	<u>Ruteville</u>	
202.	Malva	"	
203.	Iridaceae	sandy post-oak woods on Colorado	<u>May, 15, 1849</u>
204.	Gramineae	<u>Ruteville</u>	
205.	Aster	" , in thickets	
206.	Gramineae	" "	
207.	"	hog-bed prairies	
208.	Cyperaceae	" "	
209.	Monarda	glades in post-oak woods	
210.	Coreopsis	" " "	
211.	Trichocoronis Wrightii	hog-bed prairies on Colorado	
212.	Asclepias	" " " "	
213.	Carex	" " " "	

Year	Month	Day	Event	Location	Notes
1880	Jan	1	...	...	...
1880	Jan	2	...	...	...
1880	Jan	3	...	...	...
1880	Jan	4	...	...	...
1880	Jan	5	...	...	...
1880	Jan	6	...	...	...
1880	Jan	7	...	...	...
1880	Jan	8	...	...	...
1880	Jan	9	...	...	...
1880	Jan	10	...	...	...
1880	Jan	11	...	...	...
1880	Jan	12	...	...	...
1880	Jan	13	...	...	...
1880	Jan	14	...	...	...
1880	Jan	15	...	...	...
1880	Jan	16	...	...	...
1880	Jan	17	...	...	...
1880	Jan	18	...	...	...
1880	Jan	19	...	...	...
1880	Jan	20	...	...	...
1880	Jan	21	...	...	...
1880	Jan	22	...	...	...
1880	Jan	23	...	...	...
1880	Jan	24	...	...	...
1880	Jan	25	...	...	...
1880	Jan	26	...	...	...
1880	Jan	27	...	...	...
1880	Jan	28	...	...	...
1880	Jan	29	...	...	...
1880	Jan	30	...	...	...
1880	Jan	31	...	...	...
1880	Feb	1	...	...	...
1880	Feb	2	...	...	...
1880	Feb	3	...	...	...
1880	Feb	4	...	...	...
1880	Feb	5	...	...	...
1880	Feb	6	...	...	...
1880	Feb	7	...	...	...
1880	Feb	8	...	...	...
1880	Feb	9	...	...	...
1880	Feb	10	...	...	...
1880	Feb	11	...	...	...
1880	Feb	12	...	...	...
1880	Feb	13	...	...	...
1880	Feb	14	...	...	...
1880	Feb	15	...	...	...
1880	Feb	16	...	...	...
1880	Feb	17	...	...	...
1880	Feb	18	...	...	...
1880	Feb	19	...	...	...
1880	Feb	20	...	...	...
1880	Feb	21	...	...	...
1880	Feb	22	...	...	...
1880	Feb	23	...	...	...
1880	Feb	24	...	...	...
1880	Feb	25	...	...	...
1880	Feb	26	...	...	...
1880	Feb	27	...	...	...
1880	Feb	28	...	...	...
1880	Feb	29	...	...	...
1880	Mar	1	...	...	...
1880	Mar	2	...	...	...
1880	Mar	3	...	...	...
1880	Mar	4	...	...	...
1880	Mar	5	...	...	...
1880	Mar	6	...	...	...
1880	Mar	7	...	...	...
1880	Mar	8	...	...	...
1880	Mar	9	...	...	...
1880	Mar	10	...	...	...
1880	Mar	11	...	...	...
1880	Mar	12	...	...	...
1880	Mar	13	...	...	...
1880	Mar	14	...	...	...
1880	Mar	15	...	...	...
1880	Mar	16	...	...	...
1880	Mar	17	...	...	...
1880	Mar	18	...	...	...
1880	Mar	19	...	...	...
1880	Mar	20	...	...	...
1880	Mar	21	...	...	...
1880	Mar	22	...	...	...
1880	Mar	23	...	...	...
1880	Mar	24	...	...	...
1880	Mar	25	...	...	...
1880	Mar	26	...	...	...
1880	Mar	27	...	...	...
1880	Mar	28	...	...	...
1880	Mar	29	...	...	...
1880	Mar	30	...	...	...
1880	Mar	31	...	...	...

214.	Scirpus	branch in post-oak woods	<u>May, 15, 1849</u>
215.	Umbelliferae		<u>May, 18, 1849</u>
216.	Nicotiana	banks of the Colorado above Bastrop	Bastrop
217.	Solanaceae?	" " " " "	
218.	Desmanthus	hills of the Colorado	<u>May, 19, 1849</u>
219.	Leersia	Colorado bottoms	
220.	Cucurbitaceae	woods near the Colorado	
221.	Euphorbiaceae	black-prairies on Colorado	
222.	Lindheimeria texana	woods & prairies on Colorado	
223.	Helianthemum	sandy post-oak woods	
224.	Hosackia	woods and prairies	
225.	Linum	edge of post-oak woods	
226.	Rhamnus	edge of black-land prairies	
227.	Capsicum	with last and supported by it	
228.	Chondrosium foeneum	Austin, in prairies	<u>May, 23, 1849</u>
229.	Desmodium	" in thickets	Travis Co
230.	Crassula	" pebbly hills	
231.	Euphorbiaceae	" sandy hills	
232.	Houstonia	" " "	
233.	Euphorbiaceae	" " "	
234.	Mimosa	edge of woods on pebbly hills	
235.	Chondrosium ?	Austin, small prairie adjoining woods	
236.	Gramineae	black-land prairies on Colorado	
237.	Petalostemon	Austin	
238.	Sesleria dactyloides	prairies on Colorado	
239.	Compositae	sandy prairies, Austin	
240.	Euphorbia	sandy woods, "	
241.	Compositae	edge of thickets, "	
242.	-----	-----	
243.	Cassia	hills at Austin	

Year	Month	Day	Event	Location	Notes
1870	Jan	1	...	...	...
1870	Jan	2	...	...	...
1870	Jan	3	...	...	...
1870	Jan	4	...	...	...
1870	Jan	5	...	...	...
1870	Jan	6	...	...	...
1870	Jan	7	...	...	...
1870	Jan	8	...	...	...
1870	Jan	9	...	...	...
1870	Jan	10	...	...	...
1870	Jan	11	...	...	...
1870	Jan	12	...	...	...
1870	Jan	13	...	...	...
1870	Jan	14	...	...	...
1870	Jan	15	...	...	...
1870	Jan	16	...	...	...
1870	Jan	17	...	...	...
1870	Jan	18	...	...	...
1870	Jan	19	...	...	...
1870	Jan	20	...	...	...
1870	Jan	21	...	...	...
1870	Jan	22	...	...	...
1870	Jan	23	...	...	...
1870	Jan	24	...	...	...
1870	Jan	25	...	...	...
1870	Jan	26	...	...	...
1870	Jan	27	...	...	...
1870	Jan	28	...	...	...
1870	Jan	29	...	...	...
1870	Jan	30	...	...	...
1870	Jan	31	...	...	...

244. Melampodium hills at Austin May, 23, 1849
245. Euphorbiaceae " " "
246. " sandy prairies at Austin
247. Malvaceae damp " " " May, 24, 1849
248. Carex woods, Austin
249. Euphorbia thickets "
250. Gratiola edge of water "
251. Gramineae woods, "
252. Umbelliferae edge of water "
253. ---- running water "
254. Centaurea [spell??] prairies, Austin - Rio Grande
255. <sup>Hilaria</sup> Gramineae forms dense turf in prairies at Austin
256. Asclepiad. woods, Austin
257. Euphorbiaceae rocky ridges near Austin
258. Tetragonotheca texana rocky prairie, Austin
259. Asclepiad. prairies, Austin
260. Carex cedar-thickets, Colorado bottoms
261. Euphorbiaceae woods, Austin
262. Scutellaria " "
263. Coppositae prairie "
264. Rivinia Colorado bottoms, Austin
265. Carex " " "
266. Leersia " " "
267. Galardia prairies, Austin
268. Erythraea wet limestone ledges, Austin
269. Oenothera serrulata woods & prairies, Austin
270. Pycnanthemum prairies, Austin
271. Lygodesmia black-land prairies, Austin
272. Boraginaceae Colorado bottom in sand
273. Euphorbiaceae sandy bottoms
274. Cucurbitaceae Colorado bottom

Faint, illegible text, possibly a table or list, spanning the page.

- 78
275. Euphorbiaceae Colorado bottom(Austin) May, 24, 1849
276. Petalostemon edges of woods, Austin
277. Gilia *rigidula* prairies, Austin
278. Asclepiad. rocky hillsides, Austin
279. Agassiza suavis Austin May 25, 1849
280. Eysenhardtia "
281. Zanthoxylum "
282. Cucurbitaceae "
283. Asclepiad. " May, 27, 1849
284. ----- floating in water, San Marcos *Hays*
285. Vitis San Marcos
286. ----- " , blackland prairies
287. Asclepiad. "
288. Yucca Austin, San Marcos, etc.
289. *Malva digitata* edge of thickets, San Marcos, etc. May, 28, 1849  
*(Callirhoe pedata)*
290. Alyssum banks of Rio Blanco *Hays*
291. Gramineae " "
292. Melanthaceae? " "
293. Vitis thickets near the Blanco
294. Lythrum black-land prairies, wet.
295. Passiflora lutea? thickets on prairies
296. Asclepiad. " on Blanco
297. Coreopsis wet black prairies - Guadalupe May, 29, 1849
298. Ruellia prairies , Guadalupe *Conrad*
299. Compositae " "
300. " " "
301. Acacia " "
302. Asclepias banks of Guadalupe
303. Allium prairies near the Guadalupe
304. Helianthus roadside, black prairies at New Braunfels

Wright left San Antonio late in the day and arrived in camp late at night on May 31st. The main party on this the first day out from San Antonio made 15 miles and camped on the present Medio Creek on the way to Castroville.

The second day the party ~~reached~~ camped at Castroville, the night of June 1st. This was then a town of about 500 pop. on the west bank of the Medina (Medina County)

The third day they moved 10 miles to the German village of Quihi and there camped the night of June 2nd.

The weather having been very rainy and roads bad, the next two days were spent reaching the Rio Hondo, only eleven miles from Quihi. Camp was made on the Hondo the night of June 4th.



305. Actinella ? along streams near New Braunfels May, 29, 1849
306. Paspalum *Eriochloa* prairies
307. Silphium black prairies
308. Asclepias hillsides in black prairies May, 30, 1849
309. Oenothera serrulata "
310. *Achraspedes longif.* Nyctagineae roadsides near San Antonio
311. Cucurbitaceae thickets " "
312. Gramineae black prairies " "
313. Cnicus " " " "
314. Gramineae " " " "
315. Cucurbitaceae " " " "
316. Nyctagineae *capitata* roads near San Antonio
317. Malvastrum ? gardens, San Antonio
318. Condalia prairies west of San Antonio
319. *Potamogeton nodosus* ponds west of San Antonio
320. Dalea nana ? prairies west of San Antonio June 1, 1849
321. Compositae " " " *Medina*
322. Micromeria on the Medina, high banks
323. Malpighiaceae banks of the Medina
324. " " " "
325. Scrophulariaceae " " " "
326. Petalostemon " " " "
327. *Desmodium tawana* banks of the Hondo, dioecious, 6-10ft June 4, 1849
328. *Manfreda* " " " "
329. ---- " " " "
330. Convolvulus thicket in prairies west of Medina
331. Juglans bottoms of streams
332. *Carya olivaeformis* banks of streams
333. --- banks of the Hondo
334. Asclepiad. hills west of Quihi
335. " " " "

On June 5th the road led nine miles to the Seco, over almost impassable hog-wallow prairie. Camp was made on the Seco two miles above the present D'Hanis, then an embryo settlement of Germans in Medina County.

On June 6th the train passed over Rancheros (or "Comanche") Creek, a branch of the Sabinal. Fourteen miles beyond the Sabinal, after crossing the Blanco River ("Comanche Creek") they camped on the Rio Frio the night of the 6th. They remained there the next day.

Wright's collections beginning with June 6th are from what is now Uvalde County

*Correct local name!*

*6 The Seco is the part of the ... the ... Sabinal. Was some other ... the Blanco River as lying between ...*

*12/21/23.*

336. *Carlia podocarp.* near the Hondo and westward on rocky hills June 4, 1849
337. Leguminosae on the Seco, bush 6-10 ft high June 5, 1849
- 338 Euphorbiaceae on hills of the Seco
339. Amaryllidaceae " " "
340. Euphorbiaceae bottom of the Seco
- 340 $\frac{1}{2}$  Cryptogamae in clefts of rocks on the Seco
- 341 Compositae damp places near the Seco
342. Leguminosae hills of the Seco
343. Cuscuta " " "
344. Mentzelia " " "
345. Scrophulariaceae in thickets on the Seco
346. Gaura parviflora everywhere in Western Texas
347. Compositae prairies on the Seco
348. Oenothera serrulata ? var. on the Sabinal June 6, 1849
349. Euchroma " " "
350. Dalea nana prairies on the Sabinal
351. Gaura " " "
352. ---- Sabinal and westward
353. Matricaria? prairies west of the Sabinal
354. Leguminosae " " " "
355. Euphorbia " " " "
356. Compositae hills of the Rio Frio
357. " " "
358. " " "
359. Justicia banks of Rio Frio
360. Gramineae high lands on Rio Frio
361. "*Trichachne cal.*" " "
362. Leguminosae prairies west of San Antonio
363. cryptogams bluffs of Rio Frio
364. Compositae high prairies, from Frio west
365. Cuscuta high hills on the Frio

Party remained in camp on the Rio Frio June 7th.  
central Uvalde County

- 366. Malvaceae hills on the Frio June 6, 1849
- 367. ---- " " "
- 368. Cuscuta " " "
- 369. Gramineae " " "
- 370. Condalia " " "  
June 7, 1849
- 371. Panicum *lanceolatum* " " "
- 372. Gaura " " "
- 373. Gramineae " " "
- 374. *aristida* " " "
- 375. Compositae " " "
- 376. " " " "
- 377. Cucurbitaceae bottoms of the Frio
- 378. Commelina " " "
- 379. *Gilia incisa* hills of the Frio
- 380. *Boerhaavia linearifolia* Nyctagineae " " "
- 381. Salvia " " " in shade
- 382. *Nolina Lindheimeri* bottoms of the Frio
- 383. Erythraea " " "
- 384. Polygala hills of the Frio
- 385. Vesicaria gravelly bars of the Frio
- 386. *Phelipendula* Compositae hills on the Frio
- 387. Gramineae " " "
- 388. " " " "
- 389. *Cudonia repens* banks of the Frio
- 390. " " " "
- 391. *Erigeron cicutifolius* " " "
- 392. ---- " " "
- 393. Tragia hills of the Frio
- 394. *Muhlenbergia blanda* Nyctagineae banks of Frio
- 395. Cuscuta equals 395? hills of the Frio
- 396. Aster " "

On June 8th, leaving the Rio Frio, <sup>the party</sup> left the "Wool Road" (San Antonio to Eagle Pass), and took a northwesterly course to Camp Inge on the Leona (which was near a rocky conical hill or mound now known as "Inge Mountain", about 2 miles south of the present town of Uvalde) Wright remained with the party camped on the Rio Leona until June 19th.

Uvalde County

- 14
397. Actinella scaposa hills of the Frio June 7, 1849
398. Cuscuta (equals 395?) " " "
399. Gaillardia " " "
400. *Nasarguadalupensis*  
Zanichellia ? in the Leona June 8, 1849
401. Smilax? bottom of the Leona
402. Portulacaceae " " "
403. Gramineae " " "
404. Passiflora banks of the Leona June 9, 1849
405. Scirpus bed of the Leona
406. Galactia banks of the Leona
407. Potamogeton *illinoensis* currents of the Leona
408. Cuscuta " " "
409. Ludwigia " " "
410. Melothria pendula Leona bottom
411. Melveviscus " "
412. Cuscuta (equals 385?) hills of the Leona
413. Vesicaria " "
414. Euphorbia " "
415. Oenothera " "
416. Ruellia Leona bottom
417. moss on logs " "
418. Prunus " "
419. Commelyna " "
420. Cuscuta on Dalea
421. Rhamnus texensis Leona and common everywhere June 12, 1849
422. Leguminosae uplands of the Leona
423. " " " "
424. chara bed of the Leona
425. Euphorbiaceae bottom of the Leona, 3-4 ft. tall
426. Ungnadia Leona bottom, 8-12 ft. tall June 13, 1849
427. Diospyros

Wright was camped on Leona (near site of present Uvalde)  
until June 19th



427. *Diospyros tinctoria* Leona bottom, 8-12 ft. tall June 13, 1849
428. *Cuscuta* prairies on the Leona
429. *Bolivarja* " " "
430. *Helianthus* " " " (saline?)
431. *Compositae* " " Seco & westward
432. *Actinella* " " Leona
433. *Rhamnus obtusifolius* " " "
434. moss on logs, Leona bottom.
435. *Callia erythrosperma* hills, Austin & in Leona bottom
436. *chara* in the Leona
437. moss logs, Leona bottom.
438. --- on rocks under water in the Leona June 14, 1849
439. -- in the edge of water in the Leona
440. *Oenothera speciosa* Leona bottom June 15, 1849
441. *Alliaria incarn.*  
*Nyctagineae* near head of the Leona
442. *Pellaea arata*  
cryptogams Leona mound
443. " " "
444. " " "
445. *Gramineae heteropogon* " " in dense tufts
446. " *Trichachne cal.* " "
447. *Salvia* " "
448. *characeae* in the Leona in eddy water
449. " in the Leona
450. *Tragia* Leona bottom with monstrosa? fruit
451. ---- small tree in edge of bottom on Leona June 16, 1849
452. *Ambrosia* thicket and upland of the Leona & June 18, 1849
453. *Cyperus* edge of ponds near the head of the Leona
454. stagnant water near head of Leona
455. *Zanichellia* pond near head of the Leona, stagnant water
456. *chara* " " "
457. " " "

## Uvalde County

Captain French's party, to which Wright was attached, remained on the Leona (near the present Uvalde) until June 19th, when the expedition moved to the head of the Leona ( a mile above the railroad crossing at Uvalde) and then passed in a northwesterly direction for about nine miles to the crossing of the Nueces River where they camped the night of June 19th.

Two days, June 19 and 20, were taking to traverse the <sup>10</sup>~~20~~ miles between the head of the Leona and the head of Turkey Creek. The route taken probably followed the present course of the railroad to the vicinity of the present Obi Hill, and then followed the route later taken by the present Uvalde-Cline-Brackett road

The camp on the evening of June 20th was probably made near ~~the present Asphalt Mountain~~, at the head of Turkey Creek in western Uvalde County (*somewhere near Cline*)

Travel being impossible because of heavy rains and bad roads the party remained at Turkey Creek until June 29th.

- 458. Panicum edge of pond near head of Leona June 18, 1849
- 459. characeae " " "
- 460. Carex " " "
- 461. Panicum " " "
- 462. Dalea high prairie near the Nueces June 19, 1849
- 463. Coreopsis eddy water of the Nueces
- 464. Lythrum in the water of the Nueces
- 465. Umbelliferae pebbly bars of the Nueces
- 466. Proserpinaca eddy waters of the Nueces
- 467. Panicum " " "
- 468. ~~---~~ *Eragrostis* on pebbly bars of the Nueces
- 469. *(Leucena villosa)* Leguminosae bottom of the Nueces
- 470. Fallugia paradoxa bottom of the Nueces & westward.
- 471. Verbenaceae " " "
- 472. Asclepiad. " " "
- 473. Gramineae *Habenaria* " " " June 20, 1849
- 474. Dalea prairies of the Nueces
- 475. Amaryllidaceae? high prairies west of Nueces
- 476. (*Nolina texana*) high prairies west of Nueces & on cliffs above Austin
- 477. Cyperaceae Jusjalote or Turkey Creek, in dense patches
- 478. Potamogeton *illinoensis* in current of the Nueces
- 479. Bolivaria hills of the Nueces
- 480. Oenothera missouriensis pebbly bars of Nueces
- 481. Malvaceae rocky cliffs of the Nueces
- 482. *Alysicarpus* hills of the Nueces, 4-6 ft. tall.
- 483. moss margin of springs, Turkey Creek
- 484. Gentianaceae moist hillsides & margin of stream June 21, 1849
- 485. Juncus in Turkey Creek
- 486. Utricularia " " "
- 487. Melochia pyramidata Turkey Creek, wet places
- 488. Ruellia " " , open prairie

(somewhere <sup>west</sup> ~~near~~ Cline)

Party in camp at Turkey Cr. <sup>N</sup> western Uvalde Co. until June 29th

- June 21, 1849
489. *Ambrosia* sides of thickets & in prairies from Nueces to Turkey Cr.
490. *Cicuta maculata* margin of the Nueces, 4-8 ft. (June 18, 1849)
491. moss. margin of Turkey Cr. in dense tufts (June 21, 1849)
492. *Cantua?* edges of thickets, Turkey Cr. & common elsewhere June 23, 1849
493. *algarobia* prairies of west Texas, 20-30 ft. tall sometimes 12-18 in. diam.
494. *Amaryllidac.* hills of Turkey Cr., scapes 4-6 ft., fl. pure white
495. *Chaetopappa* hills near Turkey Cr.
496. *Barrattia* " " "
497. *Euphorbiaceae* " " " , suffruticose root-perennial
498. *Polygala* " " "
499. *Sida filipes*  
*Malvaceae* " " " , crevices of rocks
500. *Euphorbiaceae* prairies of Turkey Cr.
501. *Bolivaria* seeds " "
503. *Galium* seeds " " 2-3 ft. long procumbent in thickets
502. *Convolvulus* seeds Hills "
504. (*Centasca?*) prairies on Turkey Cr.
505. *Eutoca* seeds rocky hills ~~side~~ Turkey Cr., 12-18 in. high.
506. filices crevices of rocks, hills of Turkey Cr.
507. *Micromeria* hills near Turkey Cr.; common, used as tea June 25, 1849
508. *Sida filipes* hills & crevices of rocks, Turkey Cr., Austin, fl. purp, suberect
509. *Physalis* hills, Turkey Cr., without nauseous odor of *P. viscosa*, etc.  
~~much branched from root, fl. greenish yellow~~
510. *Rhamnus* or *Ceanothus* rocky hillsides, Turkey Cr., 2-3 ft. tall  
much branched from root, fl. greenish yellow
511. *Celtis pallida* rocky hill near head of Turkey Cr., very thorny shrub,  
4-8 ft. tall, common from Leona to Rio Grande
512. filices crevices of rocks on hills, Turkey Cr.
513. *Selaginella Woodii* var  
*Lycopodium* hills, Turkey Cr., on flat rocks slightly covered with earth
514. ---- hills, Turkey Cr., one specimen only
515. *Aphora humilis* ? hills & prairies near Turkey Cr.
516. *Asclepiad.* climbing over small bushes, hills & high prairies  
Turkey Cr. & elsewhere

9th

499

508

In camp on Turkey Creek, western Uvalde Co., until June 29th

517. Euphorbiaceae high hills, Turkey Cr., 1-2 ft. tall June 25, 1849
518. *Artemia mexicana*  
filices on rocky branches in shade of trees & bushes near Tur. Cr.
519. Hydrocotyle in Turkey Cr. with Typha etc.
520. chara still water, Turkey Cr.
521. lichen Turkey Cr., on elm, liveoak & other trees
522. Myriophyllum still water, Turkey Cr.
523. Rhus Leona - Turkey cr., shrub 3-6 ft. tall  
on prairies or sparingly in timber
524. Abutilon seeds hills of Turkey Cr. & eastward to Austin
525. Ptelea trifoliata v. mollis margin Turkey Cr., 10 ft. tall June 26, 1849
526. Compositae (not Chaetopappus nor Bellis ex descr.) thickets of the  
prairies & hills of Turkey Cr., fl. light purp.
527. Malvaceae rocky hillsides near Turkey Cr., in fruit.
528. ---- rocky hills of Turkey Cr., very much branched shrub 6-8 ft.  
tall, branches spine-tipped, fruit light yellow
529. *Cordia podocarpa*  
~~Lantana~~ rocky hills of Turkey Cr., fl. white June 27, 1849
530. Galactia prairies of Turkey Cr., climbing on little bunches of bushes
531. Hedyotis common, prairies of Turkey Cr. & elsewhere
532. Ludwigia in Turkey Creek, common elsewhere also.
533. Prunus prairies of Turkey Cr., forming little thickets, 2-3 ft. tall
534. Leguminosae (*Rhynchosia texana*) climbing over little bunches of  
bushes on prairies of Turkey Cr.
535. Heliomeris tenuifolia hills & rocky cliffs of Turkey Cr.  
suffruticose, 1-2 ft. tall
536. Polygala high rocky cliffs of Turkey Cr., & in similar places  
from the Colorado to the Rio Grande
537. Palafoxia high rocky cliffs of Turkey Cr.
538. Erythraea " " " " "
539. Oxalidaceae level alluvial prairie near Turkey Cr. & westward  
beginning to flower again after the late heavy rain June 28, 1849
540. Linum. prairie of Turkey Cr.
541. Mentzelia hills of Turkey Cr., much branched from base, main branch  
1-2 ft. long spreading, fl. in morning, yellow
542. Acacia hills of Turkey Cr. 1-3 ft. high
543. Usnea on 544 and other legumes, high rocky hills near Turkey Cr.

In camp on Turkey Cr, western Uvalde Co, June 20-29th

On the morning of June 29th, following what is now the Cline-Brackettville road (U.S. no. 90), a march of 13 miles brought Wright's party to the bed of Arenosa Creek ("Live Oak Creek") and 3 miles further to Elm Creek.

Beginning with June 29th Wright's collections are from Kinney County

7 miles beyond Elm Creek the road past the head of of Las Moras Springs which give rise to Las Moras Creek which flows into the RioGrande. These springs lie in the present town of Brackettville, Kinney County. The party camped at Las Moras (Brackettville) ~~July~~ <sup>July</sup> 1-2.

Leaving Brackettville on July 3rd the party travelled over dry uninteresting county seven miles to Pinto Creek (Piedra Pinta or Piedras Pintados). The crossing being difficult they camped that night on this creek.

On July 4th the party made 9 miles to the crossing of <sup>the</sup> "Mud Creek" (Zacate or Zoquete Cr.) Collections were made here and on the nearby ~~Sycamore Cr~~ <sup>Zacate</sup> (Arroyo Pedro) from the 4th to the 6th of July.

The part of Sycamore Creek which they crossed is now the county line between Kinney and Val Verde counties.

*This is Sycamore Creek as Kinney-Val Verde county-line!*



544. Mimosaceae rocky hills near Turkey Cr., 4-6 ft. tall June 28, 1849  
*Aclusanthus aniso.*
545. Nyctaginaceae high prairies at foot of hills near Turkey Cr.
546. cactus seeds high rocky hills of Turkey Cr.
547. cucurbit seeds prairies of Turkey Cr.
548. cactus seeds high rocky hills of Turkey Creek
549. " " " " " " "
550. Houstonia high prairies of Liveoak Cr.? and to the Las Moras June 29, 1849
551. (*Talinum angustissimum*  
~~Calandrinia~~) bottoms of Liveoak Cr. & Las Moras
552. Krameria prairies of Liveoak Cr. 1-2 ft. tall
553. Oenothera " " , 6-12 in. tall
554. Gaura " " , fl. yellowish-white, nearly white
555. -- " "
556. *Sida lewisii* " " fl orange
557. Leguminosae " " June 30, 1849
558. ---- on Elm Creek
559. Dalea prairies on Liveoak Cr.
560. Oenothera " "
561. Vesicaria bottoms "
562. Cuscuta prairies "
563. Aplopappus " "
564. Apocynaceae " " , fl white, border outside tinged with red
565. Lobelia Elm Cr., margin of water, fl blue
566. cactus prairies on Elm Cr.
567. Scirpus in Elm. Cr.
568. --- banks of Elm Cr.
569. --- banks of Elm Cr., shrub 3-5 ft., fl greenish (all female?)
570. Amaryllidac.? banks of Elm Cr. 4-6 ft. tall, fruiting, fl bright scarlet
571. (*Cercidium texanum*  
 Leguminosae) branching shrub on prairies 2-5 ft. tall July 2, 1849
572. ---- prairies at head of Las Moras; much branched shrub, 2-4 ft. tall,  
 fl. (pistillate only) greenish

All are from Kinney County

For itin<sup>er</sup>ary see previous page.

- July 2, 1849
573. *Lantana* prairies & edges of thickets from Guadalupe to Rio Grande  
not very common, 3-5 ft. tall, fl yellow
574. *Onosmodium bejarriense* Las Moras bottom, several stems from root, in fruit
575. *Passiflora* prairies on the Las Morras, quite common  
fl. yellow with greenish tinge
576. *Euchroma?* alluvial soils from Las Moras to R. Grande, 1-3 ft. tall
577. Compositae alluvial prairies
578. Graminae prairies west of Las Moras
- July 3, 1849
579. *Ricinus?* alluvial prairies on Piedra Pinta
580. *Scirpus* in the Piedra Pinta creek
581. *Asclepias* alluvial prairies on the Piedra Pinta
582. *Gaura* prairies from Piedra Pinta to Zacate creek
583. *Clavigera* prairies on Zacate Cr.
584. *Lythrum* in wet flat of Zacate Cr. with *Scirpus*, *Typha* etc.
- July 4, 1849
585. *Cbidenia canescens* alluvial prairies on Zacate Cr.
586. *Convolvulus* climbing bushes near Zacate Cr.
587. *Scirpus* Zacate Cr.
588. " "
589. *Sphaeralcea stellata?* low ground near Zacate Cr., 1½-3 ft. tall
590. Graminae prairies on Zacate Cr.
591. *Juncus* in Zacate Cr.
592. *Potamogeton illinoensis* " "
593. *Ruellia* alluvial prairie near Zacate Cr. fl white
594. *Abutilon* prairies from the Seco westward, common
595. *Abutilon* prairies from the Brazos westward, common
596. *Acacia lutea* Zacate Cr. and elsewhere on low & level prairie
597. *Scirpus* Zacate Cr., wet flats, the long slender culms bend to ground  
or surface of water where seeds of spikes germinate, thus it  
spreads and forms large thick patches in damp soil or  
shallow water
- July 5, 1849
598. *Bambusa arctip.*  
Gramineae common on level prairies bordering Zacate Cr.
599. *Leucopyllum texana* high prairies, 3-6ft, common from S. Antonio  
westward
- July 6, 1849

~~The~~ 9 miles <sup>from Sacatosa</sup> ~~beyond~~ Sycamore Cr. (" a small creek beyond Zacate Cr?") ~~to~~  
~~until the San Felipe was reached the soil was stony and barren with growths~~  
of cactus and chaparral

Passing Sycamore Cr. <sup>i.e. Zacate Cr.</sup> the party was in present day Val Verde County

Wrights party reached the San Felipe Springs and Creek (near present Del Rio, Valverde Co.) on July 7th. Here they remained two weeks.

They camped about half a mile below San Felipe Spring. This spring 50 ft. in diameter bursts forth out of limestone in a flow of greenish-blue water ( about 75 millon gallons per day). The runoff of this and other springs forms San Felipe Creek which flows into the Rio Grande 5 miles to the south.

- 6
- 600. Leguminosae high pebbly plains west of Zacate Cr. July 6, 1849
- 601. Leguminosae high pebbly plains west of Zacate Cr.; the legumes burst elastically & scatter seeds on ripening
- 602. Passiflora high pebbly prairies west of Zacate Cr.
- 603. ~~Eriogonum~~ <sup>Groenlandia</sup> pebbly bed of a small creek beyond Zacate Cr.
- 604. ~~Nyctagineae~~ <sup>Boerhaavia linearifolia</sup> " " " "
- 605. Salvia " " " ", fl light purple
- 606. ----- high prairies, much branched shrub 3-5 ft. tall
- 607. Gramineae high prairies of the San Felipe
- 608. Scutellaria low prairies of the San Felipe
- 609. Compositae calcareous hills of the San Felipe July 7, 1849
- 610. Cruciferae " " "
- 611. Compositae " " "
- 612. Cuscuta " " "
- 613. Fragaria " " "
- 614. Compositae " " "
- 615. Euphorbia " " "
- 616. ~~-----~~ <sup>Malva</sup> " " " , suffruticose, much branched from the root, fl white
- 617. Leguminosae calcareous hills of the San Felipe
- 618. Polygala " " " " , many stems from one root, perennial
- 619. Passiflora calcareous hills of San Felipe, equals no. 602
- 620. Physalis " " " , fl yellow
- 621. Scrophulariaceae " " " , fl. light purp.
- 622. Salvia " " " , fruticose 2-4ft, fl bluish-purp.
- 623. Rutaceae " " "
- 624. Onosmodium " " "
- 625. Abutilon " " "
- 626. Euphorbia " " "
- 627. ~~Gramineae~~ <sup>Setaria (no 800)</sup> bottoms of the San Felipe
- 628. ~~-----~~ <sup>Grasses</sup> " " " " "

In camp near Del Rio, Texas

- 629. Scrophylariaceae bottoms of the San Felipe, fl. very light purp. July 7, 1849
- 630. Ludwigia & Lemna at the head of the San Felipe
- 631. Acacia? prairies at head of S. Felipe, much branched shrub 2-3ft, fl. gold-ye yellow
- 632. Gilia <sup>regidula acroae</sup> hills at head of San Felipe
- 633. Leguminosae " " "
- 634. Heliotropium angustifolium hills, head San Felipe (= #480)
- 635. Polygala hills, head of S. Felipe, much branched from root, perennial
- 636. crucifer " " ", fl white, second floweru g
- 637. Loasaceae " " " fl yellow
- 638. Abutilon seeds " " "
- 639. Mimosae seeds " " "
- 640. Byttneriaceae seeds " " "
- 641. Mimosaceae seeds " " , common on prairies
- 642. Oxalidaceae prairies, common, growing more luxuriantly in shade
- 643. cactus on bluffs of San Felipe, 6-8 in or even 12 or more in. high, 6-10 in. diameter, fl open in morning, close before night
- 644. <sup>Senkenbergia</sup> Nyctagineae bluffs of San Felipe; much branched, glutinous
- 645. ---- " " "
- 646. Clematis prairies, San Felipe July 9, 1849
- 647. Euphorbia " " "
- 648. Cyperaceae margin of San Felipe
- 649. Convolvulaceae banks of San Felipe
- 650. Equisetum " " "
- 651. Compositae prairies of San Felipe
- 652. Hymenatherum top & side of San Felipe mound 652 is on specimen <sup>Musca sp. 1849</sup>
- 653. Gueicum " " " 653 soon spruce <sup>Hilbertia</sup>
- 654. Portulaca pilosa " " "
- 655. Eriogonum " " "
- 656. Gramineae " " "
- 657. " " "

In camp near San Felipe Spr. near Del Rio Texas



- 23
658. Gramineae prairies on the San Felipe July 9, 1849
659. Compositae " " "
660. --- " " "
661. *Condalia microphylla* the San Felipe much branched shrub  
3-5 ft. tall, fl. greenish-white
662. Amaryllidaceae found on the Howard and the San Felipe, abundant,  
growing on banks near creek
663. Asclepiad common from Austin to the San Felipe
664. *Salix humberti* <sup>= no 668</sup> San Felipe Spring, 11-15 ft. July 11, 1849
665. Scrophulariaceae prairies of San Felipe Cr.
666. *Salvia* " "
667. *Smilax* " "
668. *Convolvulus* " "
669. *Alouia curvata* / *Nyctagin.* " "
670. Gramineae *Trichochloa* " "
671. " " "
672. *Oxybaphus* / *Nyctaginac.* " "
673. ----- high prairies if S. Felipe; shrub with a small red  
2-seeded berry
674. *Lantana* low prairie of San Felipe Cr. among brush, fl. light purp.
675. *Indigofera* bottom of San Felipe Cr. and others east  
to the Rio Hondo July 13, 1849
676. *Aplopappus* high prairies of San Felipe Cr.
677. Leguminosae " " "
678. *Polygala* highw " " , fl. greenish
- 679 *Gilia insignis* low " " fl. bluish purp.
680. (*Yucca*) or (*Agave*) Mexican bayonet or dagger, fruit : Liliaceae  
high prairies, San Felipe Cr.
681. Boraginaceae high prairies of S. Felipe Cr., fl. white becoming ochroleucous July 17, 1849
682. *Acletoanthus crassif.* / *Nyctaginac.* " " , fl white with tinge of red
- 683 *Aristolochia Coryi* " " "
684. *Cryptantha Jamesii* var. high. prair. S. Felipe, fruiting, fl white
685. ----- (moss) adhering to rock deep under water in springs  
tributary to the San Felipe

In camp near San Felipe Springs, near Del Rio, Texas July 7- 21.

July 22nd. the wagon-train left San Felipe Springs for Devils River, 11 miles away. This river was crossed at a ford near where Sells Creek enters the river from the west. The road ascends the tableland beyond Devils River by the arroyo of Sells Creek. The company camped for the night of July 22nd. at a spring  $2\frac{1}{2}$  miles up this creek.

From now on, until the wagon-train left the valley of Devils River at Johnson's Draw, progress was slow, averaging only 6 miles a day. North of present Comstock, the route taken is approximately that of the present Comstock-Ozona highway. They approached the Devils River, and crossed to the left (east!) bank at a point about 3 mi. south of the 30th Parallel; and between that point and present Juno subsequently crossed and recrossed the Devils River. This occupied until Aug. 2nd.

July 24<sup>th</sup>

due north of Comstock  
on Comstock-Ozona road.

Note Among member of the expedition, judging from their writings, the Devils River was usually called the Rio San Pedro Wright consistently calls it the Devils River during the expedition of 1849. During his expedition of 1851-52 he calls it the San Pedro. The current name for the river is, - Devils River.

- 21 left San Felipe
- July 22 camped 3 mi up Devils R.
- 23 to Table Land
- 24 reached 2nd crossing Devils R.
- 25 up Devils River

Aug 2nd

686. ---- aquatic margin of water near springs tributary to S. Felipe July 17, 1849  
among cyperaceae and other aquatics
687. Trichocoronis rivularis outlets of springs tributary to S. Felipe  
blooming profusely above and beneath surface, fl. white
688. *Yucca* Spanish Bayonet, fruiting high prairies of S. Felipe  
and east to the Medina July 19, 1849
689. *Talinum angustissimum*  
Portulacaceae low prairies of San Felipe, fl. expand in afternoon  
and remain open till next midday July 20, 1849
690. Cyperaceae small branch of the San Felipe
691. *Trichloris*  
Gramineae low prairies " "
692. Lantana? high hills " " fl. white  
suffruticose  $1\frac{1}{2}$ - $2\frac{1}{2}$  ft. tall
693. Cyperaceae small branch of the San Felipe
694. Dalea San Felipe mound, fl purple
695. *Setaria* (10800)  
Gramineae low prairies on the San Felipe
696. " bluff of a small branch of the San Felipe July 21, 1849
697. Smilax high prairies between San Felipe & Devils river July 22, 1849  
climbing over bushes
698. Filix crevices of rocky bluff betw. S. Felipe and Devils Riv.
699. *Selaginella Lyellii*  
Lycopodiaceae high rocky bluffs of Devils River  
abundant
700. Asclepias Banks of Devils River
701. Compositae " "
702. Cucurbit. bottoms of Devils River climbing over tall grass & Bushes
703. Commelina crevices of rocks, high bluffs of Devils R. in shade
704. Evolvulus bluffs of Devils River fl. blue
705. Pentstemon crevices of rocks on a creek 3 mil. beyond  
crossing of Devils River, fl. bright scarlet
706. *Amorimia*  
---- prairies near a creek 3 mi. beyond crossing of Devils  
River; fl. yellow, mostly in fruit
707. fruit of no. 496? *Bewetha* hills on and beyond Devils Riv., abundant July 23, 1849
708. Compositae rocky bluffs, creek 3 mi. beyond Devils Riv. crossing
709. Scrophulariaceae hills of Devils River, fl white
710. ---- above mentioned creek; declivities, fl. white, a  
much branched shrub. Solanaceae?

Val Verde County

*Borhavia caribaea* (W. 612) - mass  
field no. 726

*Polygonum campocum* (W. 614) - mass  
field no. 737 a mistake for 738?

711. *Cassia* hills of just mentioned creek & elsewhere July 23, 1849
712. *Cyperus* bed of a small tributary of same creek, culms glabrous
713. *Marsilia* with the last
714. *Fouquiera* hills beyond Devils Riv. long branches from rear the root  
no fl. nor fruit
715. *Compositae* hills of Devils River
716. *Hustonia* fruit of no. 550 Devils Riv. and its branches
717. *Salvia* hills of Devils River, fruit only July 24, 1849
718. *Boraginaceae* (*Heliopsis scabra*?)
719. *Oplomeca* " "
720. *Compositae* " "
721. *Paronychia* " "
722. *Rhamnaceae* " ", shrub 6-8 ft, fl greenish
723. *Quercus* (*Emoryi*?) *plungens* " , shrub 6-8 ft. tall
724. *Aplopappus* bottoms of Devils River
725. *Baccharis* (*texensis*?) *microphylla* in fruit
726. *Filix* *stand in P. microphylla* hills of Devils River, crevices of rocks
727. *Scrophulariac.* hills of Devils River
728. --- hills of Devils River, shrub 2-4 ft. tall July 25, 1849  
fl. found on return trip, white.
729. *Mentzelia* bottoms of Devils River
730. *Scrophulariac.?* " " , fl white
731. *Cassia* " " and east to Austin
732. *Linum* (*rigidum*?) " " fl. purple or blue
733. *Eryngium* " "
734. *Passiflora* (*lutea*?) " "
735. *Malvac.* high hills of Devils River, fl light yellow
736. *Euchroma* " " " , fl bright scarlet
- ← 737. *Nyctaginac.* bottoms of Devils River, fl. deep red
738. *Polygonum* " " "
739. *Cuscuta* " " "
740. *Aristolochia* " " " equals no. 683  
fl. spotted with purple in the throat

all are in Val Verde County

741. Liliaceae? high hills of devils River July 25, 1849
742. Oenothera bottoms of Devils River, 4-6 ft. tall July 26, 1849  
margins of streams to Austin
743. cactus high hills of Devils River
744. Hymenatherum " " "
745. *Quercus pungens* " " " , much branched, 3-5 ft. tall
746. Linum " " "
747. Gramineae " " "
748. ---- " " " , fl. white, crevices of rocks
749. Panicum bottoms " , penicle yellowish, much branched  
from root, forming large patches
750. Gramineae hills of Devils River fl white
751. ---- " " "
752. cactus " " , fruit lanceolate, smooth, scarlet, July 28, 1849
753. cactus " " , fruit lanceolate, green
754. Asclepiad. bottoms of Devils River (as at Eagle Pass in 1848)
755. Amaranthac. hills of Devils River, thickets and shady places
756. Verbena " " , nearly or quite to the summit, fl. bright red
757. *Lophosiphium*?  
Compositae summit of hills of Devils Riv., rock crevices, fl. yellow
758. " declivity of hills of Devils River
759. Krameria Devils River, declivity of hills
760. Gramineae " " " "
761. Abutilon " " " "
762. Dalea Devils River, on high hills, 1-2 ft, tall
763. Gramineae Devils River, high hills
764. *Echinocereus flexispinus?* , high hills, Devils River 1 ft tall 8 in. diamet.
765. Hedyotis Devils Riv., high hills, rock crevices
766. Mammillaria " " " " 4-5 in. broad July 30, 1849  
scarcely rising above the ground
767. Evolvulus Devils Riv., high hills, fl blue
768. *Petalostemon* " " " " , abundant, keel & wing purp.  
*Dalea aspera* var. (J. no. 131) vexillum yellow

Collections up thru Aug. 2nd. are in Val Verde County, Texas

during the passagethru Crockett County Wright was sick, and no plants were collected. The area not botanized includes most of the Johnson Creek (Johnson Draw) and Howard Creek and Live Oak Creek, all ~~in~~ Crockett Co. The official milage for the party on this trek was, head of Pecos via Johnson Cr. to Howard Spring (in Howard Cr.) 41.2. miles. Howard Spr. to Live Oak Creek 32.40 miles. The crossing of the Pecos is given as 7.88 mi. above the mouth of Live Oak Creek, but this ~~was passed~~ <sup>given as 7.88</sup> and the party continued up the east side of the river a total of ~~over~~ <sup>40</sup> miles before going over to the west bank (44.5 according to the report)

About a mile below the present town of Juno, at the "summer head" of Devils River, the party turned up Johnson's Draw and roughly followed the ~~present~~ course of the present Juno-Ozone road, in a westerly and northerly direction, to about 7 miles north of the Valverde-Crockett county-line. There they took a westerly course up a ravine out of Johnson's Draw and then descended by another ravine into Howard's Creek, crossing this stream at Howard's Springs. These springs, 41 miles from Devils River, are the only constant source of water between Devils River and Live Oak Creek on the Pecos.

The party left Devils River via Johnson's Draw on August 2nd.

The day the train left Devils River Wright fell ill with malaria, and was completely incapacitated until the Pecos had been crossed and even beyond.

In his MS. list he has written opposite nos. 778-802, "Some of these were spoild during my sickness and thrown away"



- 2
769. Solenium Devils River, high hills, rock-crevices July 30, 1849  
fl. purple, berries red
770. Parthenium Devils Riv. declivities of hills, fl. white, 2-3 ft. tall
771. Capsicum " " thick shady bottom, fl. white, 1-3 ft. tall
772. ~~Juniper~~  
cedar " " foot of hills, 5-8 ft. tall
773. Physalis " " bottoms in sandy soil, fl. purple
774. Calandrinia 2 " bottoms in sandy soil, fl. pale yellow
775. Heliotropium " " " " " , fl. purple with yellow center
776. Verhonia " " " " " , fl. deep purple
777. Cassia " " " " " , fl. yellow with greenish veins  
root very long, I never found the bottom though I  
dug the length of my knife and handle
778. ~~Helvia~~  
Gramineae (Chlorideae) bottom of Devils River July 31, 1849
779. ~~Muhlenbergia~~ *arenacea*  
(Paniceae) " " "
780. Cyperus " " " , abundant
781. Euphorbia Devils Riv., declivities of hills
782. cruciferae " " " " , fl. yellow
783. ---- " " " " , fl. purplish
784. ~~Amaranthus~~  
Amaranthaceae " " bottoms, 3-4 ft. tall
785. Lepachys " " borroms
786. Euchroma " " , declivity of hills, fl. & bracts yellow
787. ~~Tagetes~~  
bachelor-button " " , base of hills August 1, 1849
788. ~~Senftenbergia~~  
Nyctaginac. " " , hills, common, here first seen in flower  
flowers purple
789. Dichondra " " , dense patches, shade of trees & bushes
790. Cyperac. " " , margin of water Aug. 2, 1849
791. " " " " "
792. Heliomeris " " hills
793. Panicum *plenum* " " bottoms
794. Martynia " " "
795. " " hills near summit
796. Oxalis " " declivities of hills, fl. purple
797. Chilopsis " " pebbly bars, fl. purple, 8-14 ft. tall

Specimens collected on the 12th and following are in  
from Pecos County, Texas

As the expedition took it, the distance between the head of Devils River and the Pecos was 81 miles.

The Pecos was reached (via Live Oak Creek, a few miles from Ft. Lancaster) on Aug. 12th. near the crossing ("the ferry" of the Pecos.

From the 12th to the 16th the party travelled up the Pecos (from Live Oak Creek Crossing to near a point about 35 mil below Horsehead Crossing and ~~North Fork~~ present town of ~~Irish~~ *Irish*!!)

Irish

French, pg. 51, gives the measured distances (between camps and halting places) as follows, -

Howard Springs - 32.4 mi. - Live Oak Creek - 7.88 mi. - Ferry of Pecos - 12.59 mi. - Camp above ferry - 16.23 mi. - Second camp above ferry - 7.74 mi. - Third camp above; leave Pecos - 18.24 mi. - Escondido Creek - 8.58 mi. - Escondido Springs - 19.47 mi. - Comanche Springs.

French, p. 45, states, - "For the distance of near forty miles, the route lies up the east bank of the river. A few miles below the ferry, the valley of the Pecos disappears, and the mountains on either side approach each other closely. Proceeding up river, they gradually widen out, forming a level valley from one to three miles in width; and a little above where the road leaves the valley, they stretch to the left over the plain in a broken, irregular line"

*French says road went up "east" side of Pecos, but this is a mistake! French's map, Emory's map, and other old maps all show the road on the west side of the Pecos. The road crossed the Pecos at the Ferry [7 miles above camp in lower Live Oak Creek (i.e. near Ft. Lancaster)] at a point near present-day Sheffield*

798. <sup>*Amaranthus & cleopatra*</sup> Amaranthac. Devils River, summit of hills August 2, 1849
799. Gramineae <sup>*trifoloid*</sup> " " declivity of hills
800. *Gaura* " " " "
801. *Physalis* " " summit of hills & in bottoms  
fl purple.
802. *Abutilon* " " declivity of hills
803. *Engelmannia* prairies betw. Devils River and the Pecos
804. *Cantus* pebbly bed of branch running to the Pecos, fl. scarlet Aug. 11, 1849
805. Gramineae Prairies of the Pecos Aug. 12, 1849
806. Compositae " " " fl. purple
807. *Prionopsis* " " "
808. <sup>*Muhl. arenacea*</sup> Gramineae " " " Aug. 13, 1849
809. Cruciferae valley of the Pecos, fl. white Aug. 14, 1849
810. Compositae " " "
811. *Solidago* " " "
812. Leguminosae " " " fl. yellow
813. Gramineae " " "
814. "*Sporobolus Wrightii*" " " "
815. *Trichloris mend.* " " " "
816. " " " "
817. *Euphorbia* Prairies beyond the Pecos Aug. 15, 1849
818. *Perezia* " " " fl. light purple
819. Gramineae " " "
820. *Krameria* " " "
821. *Oenothera* " " "
822. *Sidalcea* " " " fl. orange-red
823. *Leucophyllum minus* hills beyond the Pecos, L. Bakeri, 2ft. tall, fl. purp.
824. Compositae prairies beyond the Pecos
825. cactus " " " 6 ft. tall, branching, branches  
nearly horizontal, fruit dry yellow
826. cactus hills beyond Pecos, dense hemispherical clusters, fruit  
smell & tastes like strawberrie

All from Pecos County

Leaving the Pecos on Aug. 16th the road went west over a plain margined by broken ridges. 12 miles from the river the road turned over a gentle hill, and at a distance of 18-20 miles from the Pecos, entered the valley of an intermittent creek, called, in Wright's day, "Escondido Creek". This is now known as Mule Creek. Continuing along Escondido Creek for 8 miles they came to Escondido Springs, where apparently he collected no. 849.

From Escondido Springs to Comanche Springs (the present Fort Stockton) it is almost 20 miles. They camped at Comanche Springs (i.e near Fort Stockton) the night of ~~Sept.~~ 19th., about 46 miles from the Pecos

The official milage of the party is as follows

from Pecos to Escondido Cr. - 18.24 mi.

Escondido Cr. to Escondido Spr. at head of creek 8.58 mi.

Escondido Spr. to Comanche Spr. 19.47 mi.

Comanche Spr. to Leon Spr, 9.57 mi.

hence Pecos to Leon Springs is 55.86 miles

Pecos to Comanche Spr. is 46.29 mil.

"Escondido Creek", " water is found in ponds, some of them quite deep, surrounded by tall growth of rushes and cane. This water is distant from the Pecos about 18 miles and has been called Escondido Creek"-French p.46.

"Eight miles further on are the Escondido Springs. The water gushes out from beneath a shelf of rocks, and flows some distance down the creek" French, l.c.

827. *Paronychia* a creek beyond the Pecos, rock-crevices August 16, 1849
828. *Dalea* same locality as above
829. *Compositae* prairies beyond the Pecos
830. <sup>*Dactylis*</sup> *Gramineae* same creek as 827, dense growths in creek-bed
831. " on hillside near above stream
832. *Engelmannia* " " " " "
833. *Compositae* Prairies beyond the Pecos, fl. purple, one specimen seen
834. *Asclepias* " " "
835. <sup>*Bouteloua eriopoda*</sup> *Gramineae* " " "
836. *Asclepiad* on a branch beyond the Pecos and seen last year 1848 on the Rio Grande climbing 10-20 ft.
837. *Eriogonum* <sup>*abertianum*</sup> hills beyond the Pecos
838. <sup>*Selinocarpus*</sup> *Nyctaginac.* " " "
839. *Compositae* " " "
840. <sup>*Tidestromia*</sup> " " "
841. *Larrea* " " " 3-4 ft. tall, fl. yellow
842. *Oenothera* " " "
843. *Euphorbia* 20 mi. beyond the Pecos
844. <sup>*Suaeda*</sup> *Chenopod.* valley 20 mi. beyond the Pecos Aug. 17, 1849
845. *Asclepias* " " " " Aug. 17, 1849
846. " " " "
847. *Heliomeris* " " " "
848. *Solanaceae* " " " "
849. *Melampodium* prairies 30 mi. beyond the Pecos Aug. 18, 1849
850. <sup>*Suaeda*</sup> *Chenopodiaceae* salt-flat 40 mi. beyond Pecos
851. *Cnicus* valley 30 mi. beyond Pecos, fl. purple
852. " margin of creek about 30 mi. beyond Pecos, fl. purp., 3-ft tall
853. <sup>*Tidestromia*</sup> *Eriogonum* hills about 30 mi. beyond Pecos
854. *Compositae* valley about 40 mi. beyond Pecos
855. *Solidago* hills about 40 mi. beyond Pecos
856. *Compositae* valley about 40 mi. beyond the Pecos.

All in Pecos County, almost certainly.

collections within Jeff Davis Co probably begin with those of Aug. 22 (nos ~~916~~ <sup>887</sup> et seq.)

The party camped at Comanche Springs (the present Fort Stockton) on ~~Aug.~~ 19th, about ~~40~~ <sup>46</sup> miles from the Pecos.

The camped on ~~Aug.~~ 20th at Leon Springs 10 mi. west of Comanche Spr.

On the 21st. the party went into camp somewhere not far from the present Barilla Spring, 35 mi. ~~west of Leon Spring~~ west of Leon Spring, at the opening of the wide valley down which the Limpia Creek intermittently flows to join a north-flowing tributary of the Pecos. At this place a large number of plants were collected on Aug 21<sup>st</sup>.

The official distance given by the party betw. Leon Spr. and the first water on the ~~the~~ Limpia is 35 miles  
Leon Spr. according to party is 55.86 mls from the Pecos.

Beyond Comanche Spr., acc. to French p.47, "The next watering place is the Ojo de Leon. The country between the two places is extremely sterile. The water rises to the surface from out of springs, 30 to 40 ft. in diameter, that sink to a great depth, like wells. The water runs from one spring to another, and finally in the course of a half mile, sinks into the earth."

"Quitting Ojo de Leon, the road still continues over a dreary, barren country, without timber or grass, until it enters the valley of the Sierra Diablo (i.e Davis Mts). The general features of the country now change; mountains rise on right and left; the limestone formations has generally disappeared; and the hills wear a sombre appearance, from the dark rocks of primitive formations. The distance from the Ojo de Leon to the Limpia is nearly 40 miles; and no water intervening can be relied on, though at certain seasons it may be found. At the point where the road strikes the Limpia, it is a small stream, rising from its rocky bed, and, flowing a short distance, soon disappears..... Leaving the valley, the road enters Wild Rose pass. Few places can present anything more lovely than this little valley, surrounded as it appears to be by a wall of vertical rocks, rising a thousand feet in altitude... From here the road leads over a spur of the mountain, and descends on the other side, and, continuing up the bed of the stream several miles, through a deep, narrow canyon, leads to a more elevated plain, in which this little stream takes its rise. This canyon in some places is not more than two hundred yards width." French, pg. 47

i.e to Pecos

857. Compositae prairies about 40 mi. beyond the Pecos August 18, 1849
858. Gaillardia " " 40 " "
859. Gaura " " 60 " " Aug. 20, 1849
860. Cassiae sem. " " 60 " "
861. Vernonia valley about 80 mi. beyond the Pecos Aug. 21, 1849  
fl. purple
862. Salvia valley about 80 mi. beyond Pecos
863. Eriogonum *Wrightii* hills about 80 mi. beyond Pecos
864. Dalea " " " "
865. " " " " fl. yellow
866. Compositae " " " fl. light purp. labiatiflorae
867. Daleaceae " " " fl. purple
868. Compositae " " " fl. yellow
869. Malvaceae Valley about 80 mi. beyond Pecos — Probably *S. lapidata* var *sagittifolia* type  
*S. sagittifolia* type  
det. no. 47 = last  
local. given is "60 mi"
870. Dichondrae hills about 80 mi. beyond Pecos
871. Compositae valley about 80 mi. beyond Pecos. fl. yellow
872. " " " " " "
873. Eysenhardtia bed of creek 80 mi. beyond Pecos
874. Gnaphalium " " " " " "
875. Gaura valley 70-80 mi. beyond Pecos
876. Compositae " " " "
877. Aplopappus " " " abundant
878. Senecio plains " " fl. yellow
879. Asclepias " " " fl. purple
880. Gaura " " " "
881. Gnaphalium bed of creek 70-80 mi. beyond Pecos
882. Euphorbia " " " "
883. Scrophulariac. " " " fl. yellow
884. Eriogonum? hills 70-80 mi. beyond Pecos
885. Cruciferae *Hymenocallis pubens* pond in valley about 80 mi. beyond Pecos
886. Compositae valley about 80 mi. beyond Pecos

Until about the 29th the party was in Jeff Davis County

The stream bed of the Limpia was struck about 15 miles up the valley on Aug. 21st. and they then continued up the stream until they reached the Canyon and Pass of the Limpia (~~Wild Rose Pass~~) in the Davis Mts. Thru this pass they travelled from the 24th to the 26th. On the 26th the train left the Limpia Pass and during the next two days passed an immense prairie-dog town as they skirted the southern edge of the Davis Mts. on their way to the Van Horn Flats.



887. Cyperac. bed of the Limpia or Wild Rose Creek, wet August 22, 1849
888. Lobelia " " , fl. deep purple
889. Eryngium " " , fl. light blue, basal leaves subpectinate
890. Coreopsis " "
891. Actinella " "
892. Cyperus " "
893. ~~Scirpus~~ *Scirpus arenacea*  
Grammineae " "
894. Salix " " , 8-10 ft. tall
895. Baccharis " " , 5-5 ft. tall, fl. white
896. Rumex " "
897. ~~Panicum~~ *Echeveria crisp.*  
Panicum " "
898. Aster margin " , 2 ft. tall, fl. purp.
899. Salix " " , 6 ft. tall
900. Cyperus " "
901. Leguminosae ~~by~~ valley of the Limpia , fl. purp., trailing 6-8 ft.
902. Sidalcea " " , sandy soil
903. Violacea " " , fl. purple
904. Cruciferae " " , fl. purple
905. ~~Gramineae~~  
Gramineae " "
906. *Mallinbergia* " "
907. Penstemon seeds " "
908. Compositae " "
909. Aristolochia " " , fl. purple
910. Engelmannia " " , rays with purple vein beneath
911. Euchroma " "
912. Scutellaria " " , fl. deep purple
913. Compositae " " , fl. white
914. Evolvulus " " , fl. purple
915. Compositae " " , fl. purple

All Jeff Davis County

916. Galium bottom of the Limpia Aug. 22, 1849
917. Aster " " , fl. white
918. Cyperac. " "
919. Asclepias valley " "
920. Eriogonum <sup>polycladum</sup> bottom " "
921. ~~Nyctaginac.~~ <sup>Oxybaphus</sup> valley " , fl light purple
922. Compositae " " , fl. white
923. Polygala " " , fl. purple Aug. 23, 1849
924. Gaura " " , fl. pink
925. Phlox " " , fl. scarlet
926. Compositae " " , fl. purple
927. " " " , fl. purple
928. ~~Nyctaginac.~~ <sup>Acletoanthus longif.</sup> " , white, turning black on drying
929. ~~Boerhaavia gracillima~~ hills " , fl. scarlet
930. Galactia " " , fl. purple
931. Eriogonum <sup>tenellum</sup> " , fl. white
932. Gaillardia valley of the Limpia
933. Gramineae <sup>Leptoloma</sup> " "
934. Hosackia? " " , fl. yellow
935. Eriogonum " " , fl. white
936. Quercus foot of hills on the Limpia, 8-10 ft. tall
937. Convolvulus Valley of the Limpia, fl. bluish-purp., climbing over bushes
938. Vernonia " " , fl. purple
939. Sidalcea " " , fl. vermillion-red
940. Eutoca hills near the Limpia, rock-crevices, fl white Aug. 23, 1849
941. ~~Filix~~ <sup>Woodsea mexicana</sup> " " "
942. ~~Filix~~ <sup>Leucanthus Eupat.</sup> " " "
943. Physalis valley of the Limpia
944. Cyperac. " " "
945. Aplopappus " " "

All are in Jeff Davis County

946. ---- Valley of the Limpia April 23, 1849
947. Gramineae " "
948. Solidago " " in thick bunches
949. Dalea " " fl. deep scarlet
950. Ambrosia? " "
951. Compositae " "
952. Convolvulus " " fl. purple
953. Epilobium? margin of the Limpia , fl. light red Aug. 24, 1849
954. Salvia " " " , fl deep blue
955. Solidago valley of the Limpia , dense bunches
956. compositae " " " , sandy soil, 3-5 ft. tall
957. Pentstemon " " "
958. Portulaca hillsides near the Limpia
959. Solidago " " "
960. Compositae " " "
961. fern " " "
962. fern " " "
963. Bidens " " " , 2-3 ft. tall, rays white or light yellow
964. Ranunculus margin of the Limpia, spreading 2-3 ft.
965. Solidago valley of the Limpia
966. Malvaceae margin of the Limpia, 2-4 ft. tall, fl. purple
967. Commelina " " " , fl. blue, lower petal large for genus
968. Rosa arkansana bottom of the Limpia, 2-3 ft. tall
969. ~~Gramineae~~ <sup>Andropogon</sup> valley of the Limpia dense bunches
970. fern hillsides, valley of the Limpia
971. ---- In Pass of the Limpia, side of hills
972. ~~Gramineae~~ <sup>Muhlenbergia</sup> " " "
973. Bignoniac. " " " , 2-3 ft., fl. light yellow
974. Malvaceae " " " , fl. light purple
975. Liatris " " " "

All are in Jeff Davis County

- August 24, 1849
976. Dalea <sup>futescens</sup> side of hill in Pass of the Limpia, 1 ft. tall, fl. purple
977. Composit " " " , fl yellow
978. Gramineae <sup>Andropogon scop</sup> " " , in dense bunches
979. " <sup>Clionurus</sup> " " "
980. fern " " "
981. ( <sup>Suaena retusa</sup> Leguminosae " " , 3-5 ft. tall
982. Nyctaginac. " " "
983. Dalea " " " , fl yellow
984. Martyniac. prairies in mountain valley, fl. purple
985. Labiatae " " " " "
986. Dalea Hills Pass of the Limpia fl. purple
987. <sup>Lycurus</sup> gramineae prairies, Pass of the Limpia
988. Salix. margin of the Limpia
989. Hymenatherum prairies, Pass of the Limpia
990. Compositae Pass of the Limpia mountain-side in rock-crevices
991. --- Pass of the Limpia , mountain-side August 25, 1849
992. Oenothera margin of the Limpia, fl. yellow, turning reddish, vespertine
993. fern Pass of the Limpia, top of mountains
994. Cruciferae Pass of the Limpia, top of mountains
995. Rhus " " " " , fl. white
996. <sup>Gymnopteris lilioides Type</sup> fern Pass of the Limpia, on mountains in rock crevices
997. Eriogonum " " " " " "
998. Micromeria? " " " " " fl. blue
999. Galium " " " " " fl. red
1000. " " " " " " fl. yellow
- 1001 Crucifer " " " " " fl white
1002. <sup>Muhlenbergia</sup> Pass of the Limpia, summit of hills
1003. Asclepiad. " " , valley prairies
1004. Cyperaceae in the Limpia Aug. 26, 1849
1005. Gramineae bottom of the Limpia

(97. Davis)

All are in Jeff Davis County

"The first encampment on the plain is called the Painted Camp. Gramma grass is abundant, and wood plenty. The Limpia here, though near its source, affords more water than where it was first met, thirty miles below..... From Painted Camp, the road continues over the plain, and is remarkably good. For several miles it runs through a prairie dog town, , , , , . By the road side, 15 mi. distant, beneath a large boulder of granite, water may be found; but it was unfit for use when we passed it, having been completely trodden up with mud by the animals of the advanced train. The first reliable water is at Smith's Run, 26 mi. from the Limpia. The last six miles of the road runs on ground covered with small angular fragments of rocks, rendering it very rough. The creek is found in a ravine at the base of a very high range of mountains on the right; and to reach it, the road turns ~~off~~ the direct course near two miles.... Continuing along the base of these mountains, water is again found in some springs 10 mi. distant. But from here to Eagle Springs, a distance of 60 mi., no certain or living water is found, though there are some intermediate ponds, and Rain Water Creek, 20 mi. distant, is sometimes swollen to a stream of considerable size. Between these points the country is mostly an elevated plain. The road, leaving the mountains on the right, passes over to the range on the left. .... Eagle Springs are found in a ravine formed by spurs of the mountains. Although the precaution was taken to march the train in four divisions, each on consecutive days, yet water was not found sufficient for one-third of the animals; consequently, they had to march 70 miles (i.e. from Smiths Run to Eagle Spr,) without water." Capt. French's report, pg.48.

French, p. 51-52, gives the milage between the following points (hauling points or camp-sites) between Leon Springs and the Rio Grande, -

*Leon Springs* Leon Springs - 37 mi. - Limpia - 6.97 mi. - Entrance to pass - 4.5 mi.  
- Camp in small valley - 14.08 mi. - Painted Camp - 26.33 mi. - Smith's Run  
- 9 mi. - Springs - 17.82 mi. - Rain Water Creek - 18.77 mi. - Water-holes  
- 21.57 mi. - Eagle Springs - 22.61 mi. - Entrance of canyon - 8.81 mi.  
- bank of Rio Grande.

Jeff Davis

Wright probably left Painted Camp on August 26th and went to Smiths Run.

The 27th he probably moved on to Rain Water Camp and next day got to VanHorne Wells.



- 1006. *Panicum plenum*  
Gramineae bottom of the Limpia Aug. 26, 1849
- 1007. *Crucifera* " " "
- 1008. Calliandra Pass of the Limpia, valleys betw. mountains, in fruit only
- 1009. Asclepias " " " " "
- 1010. Clematis " " " " " spreading 3-5 ft.
- 1011. Acacia? " " " " # 3-4 ft. tall
- 1012. Leguminosae " " " " " 2-3 ft. tall
- 1013. *Ambercun Tamogi*  
Amaryllidaceae " " " " fl. yellow
- 1014. Calliandra ? " " " " " fruiting only
- 1015. *Arctida*  
Gramineae Mountain valleys beyond the Limpia Pass
- 1016. Panicum
- 1017. Eriogonum *Wrightii*
- 1018. Desmanthus
- 1019. Physalis
- 1020. Leguminosae
- 1021. Hedyotis fl. white
- 1022. Cruciferae
- 1023. *Nama surpedu* fl. red
- 1024. Compositae
- 1025. Euphorbia
- 1026. Scrophulariac. side of mts. beyond Limpia Pass
- 1027. Boraginaceae mt. valleys beyond Limpia Pass
- 1028. Leguminosae branching & spreading, 2-3ft.
- 1029. Compositae in dense bunches
- 1030. Leguminosae much spreading, 2ft. high
- 1031. Asclepiad.
- 1032. Physalis fl. purple
- 1033. Gaura
- 1034. Compositae
- 1035. Polygala fl. light red

Jeff Davis County

Painted Camp, the camping place at the head of the Limpia, is a mile or two above present, Ft. Davis. The road to El Paso goes west along the south base of the Davis Mts (passing the prairie Dog town) to Smiths Run (or Rock Creek) which is 18 mi. east and a bit south of Valentine (U.S.G.S Valentine quad.)

From Smiths Run or Rock Creek the road turns northwesterly, along the west side of the Davis Mt. mass, to the base of El Muerto Peak, where, 9 mi. from Smiths Run, springs are found. These are somewhere near "Moore's Ranch" shown on the USGS Valentine quad.

From the springs near Moores Ranch the road, leaving the mass of Davis Mts, runs a bit north of west 17 miles to a south-flowing tributary of Chispa Creek (5 mi. north, and a bit west of Wendell). This is Rain Water Cr. (On the USGS. Chispa quad. this stream is unnamed).

From Rain Water Creek, continuing a bit north of west, to the base of Chispa Mt. and then ~~west~~ skirting the peak (and entering Culberson County) crossed Chispa Creek (Providence Creek of old maps) and went north to Van Horne Wells (9½ miles south of present town of Van Horne). Rain Water Cr. to VanHorne Wells is about 18 miles. The road left Chispa Creek 8 miles south of VanHorne Wells.

The above route ~~is~~ is closely followed by an auto road which leaves the VanHorne-Marfa highway near the Culberson-Jeff Davis county-line and goes to Ft. Davis.

The collections of Wright, labeled "mountains towards the Rio Grande" (nos. 1059-1093) were probably collected after passing Chispa Mt. and Chispa Creek, and hence from what is now Culberson County. ~~After~~ Previous to reaching Chispa Cr., after leaving the Limpia, they had kept the main mass of mountains on their right (i.e north of them) but after crossing the Chispa the mass of mountains were those along the Rio Grande and were on their left (i.e. west and south of them). This would suggest that Wright camped at VanHorne Wells the night of August 28th, 29th and 30th.

Van Horne Wells is <sup>just</sup> west of Lobe riding on the railroad.

1036. Leguminosae mountain valleys beyond Limpia Pass Aug. 26, 1849
1037. Gramineae hills beyond Limpia Pass Aug. 27, 1849
1038. "*Arctida*
1039. "
1040. "
1041. *Dalea frutescens*
- 1042 omitted
1043. Compositae fl. yellowish
1044. Convolvulus fl. purple
1045. Cryptantha valleys among hills beyond Limpia Pass
1046. Bolivarica hills beyond the Limpia Pass fl yellow
1047. Croton valleys among hills beyond Limpia Pass
1048. Eriogonum " " " "
1049. Dalea mountains beyond Limpia Pass August 28, 1849
1850. Senecio " " " "
1051. Artemisia " " " "
1052. *Quercus grisea* " " " "
1053. Gnaphalium " " " "
1054. *Setaria* (no 798) Gramineae mountain-tops beyond Limpia Pass
1055. Compositae mountains beyond Limpia Pass, dense bunches or branched from the root, fl. yellow
1056. (*Echeveria strictiflora* ~~no 798~~) Ameryllidac. mt. beyond Limpia Pass, fl scarlet
1057. Gramineae " " " , in dense tufts
1058. Labiatae " " "
1059. *Hilaria* Gramineae valleys among mts. towards the Rio Grande
1060. Scrophulariac. hills towards the Rio Grande, branching from ground
1061. Pinus mountains towards Rio Grande 10-20 ft. tall Aug. 29, 1849
1062. Galium " " "
1063. Malvaceae " " " , fl. light purple
1064. Talinum " " " , fl. yellow
1065. Apocynaceae " " " , fl white

*9 1/2 miles due south of present town of Van Horn  
at NE base of Van Horn Mts.*

The party followed the Van Horn trough up the Wildhorse Creek perhaps hitting that stream at or north of Valentine and then went to Van Horn Wells (near present Van Horn, Culberson County). They then struck west to Eagle Springs (~~a few~~ miles south of the present town of Eagle Flat at the base of the Eagle Mts.) within Hudspeth County. *8 mi S and a bit E. of Eagle Flat R.R.*

In passing from Jeff Davis County to Hudspeth Co. only about 30 miles were spent within the present Culberson County.

According to the official report of the party the distance between Eagle Springs and the Rio Grande is a bit over 30 miles. From the well east of Eagle Springs (i.e. Van Horn Wells) to Eagle Springs ~~the distance is about 22 miles.~~ to Eagle Springs the distance is given as about 22 miles.

Wright was probably collecting about Eagle Springs, Hudspeth Co., on Sept. 1, 2, and 3.

On Aug. 30th. he may have been collecting near Van Horn, <sup>Wells</sup> Culberson Co. *↑*

Van Horne Wells is 9.5 miles due south of the present town of Van Horne and are at the northeast base of the Van Horne Mts. Culberson Co.

Eagle Springs are at the northern end of the Eagle Mts and are 8 miles south and a bit east from the town of Eagle Flats on the railroad. They are west of Van Horne Wells, and are in Hudspeth County

- 1066. --- mountains towards the Rio Grande Aug. 29, 1849
- 1067. Compositae
- 1068. Solidago
- 1069. Convolvulus fl. red
- 1070. *Muhlenbergia Emericoides*  
Gramineae
- 1071. Paronychia Aug. 30, 1849
- 1072. -- , shrub 5-8 ft tall
- 1073. *Nicotiana glauca*  
Nyctaginac.
- 1074. Houstonia mountain valleys toward the Rio Grande, fl. white
- 1075. Actinella? or Bailleya Mt. valleys towards the Rio Grande  
rays in several series
- 1076. Senecio valley towards the Rio Grande, smooth variety
- 1077. Cucurbitac. , fruit  $2\frac{1}{2} \times 3\frac{1}{2}$  in. diam.
- 1078. Dalea , fl yellow
- 1079. Euphorbia
- 1080. Malvaceae , fl. red
- 1081. *Alcea inaequalis*  
Nyctaginac.
- 1082. Cruciferae
- 1083. Eriogonum *rotundifolium*
- 1084. Gaura
- 1085. Compositae , only one specimen found
- 1086. *Guilleminea*  
--- mt. valleys towards the Rio Grande,
- 1087. Compositae mt. valleys towards Rio Grande, only one specimen seen
- 1088. " " " " "
- 1089. Dichondra ! mountains enclosing the above valleys
- 1090. ---- " " " "
- 1091. *Boehavia universitatis*  
Nyctaginac. mountain valleys towards Rio Grande, fl pink
- 1092. Compositae " " " "
- 1093. Oenothera " " " "
- 1094. Cruciferae " " " " , fl. white, Sept. 1, 1849

30-40 miles from Rio Grande

Leaving Eagle Springs the road bore to the left between the Eagle Mts. and Devils Ridge and crossed the present Quitmann Arroyo. About 23 miles from Eagle Spr. the road entered a deep rugged canyon in the Quitman Mts. by which after a course of 8 or 9 miles ~~the party of~~ the Rio Grande was reached, opposite the present town of La Banderas, in Mexico across the river. This is all in Hudspeth County.

From this point the party ascended the valley of the Rio Grande to El Paso, over 80 miles.

Collections of Sept 7th ( and perhaps those of the preceeding day) probably were obtained in what is now El Paso County, Texas

(The party hit the Rio Grande <sup>6 miles below</sup> ~~at~~ old Ft. Quitman)

- 1095 Solidago - - - - - Sept. 1, 1849
1096. Vernonia margin of Creek 30-40 miles from Rio Grande
1097. *Paspalum distichum* " " , " " " , dense patches
1098. Mentzelia mountain valleys 30-40 mi. from Rio Grande , fl light yellow  
much branched
1099. Compositae " " " " " damp sandy soil.
1100. *Heliotropium Greggii* mt. valleys 30-40 mi. from Rio Grande  
fl. white or light purple
1101. Compositae. mountain branches 35 mi. from Rio Grande Sept. 2, 1849  
rocky banks
1102. Malvaceae declivity of hills 30-40 mi. from Rio Grande
1103. *Muhlenb. arenaria*  
Gramineae mountain valleys 30-40 mi. from Rio Grande , sandy soil
1104. Portulacaceae " " " "
1105. *Callispora uncinata*  
Nyctaginac. " " " "
1106. *Coldenia hispidissima* mt. valley 30-40 mi. from Rio Grande
1107. *Gilia lugiflora*  
Phlox: mountain valley 30-40 m. from Rio Grande Sept. 3, 1849
1108. *Callispora argubosa Texasensis*  
Nyctaginac. " " "
1109. Compositae " " "
1110. Polygala " " "
1111. Leguminosae " " "
1112. Ambrosia " " "
1113. Sida " " "
1114. Gramineae *Stipa* " " "
1115. *Talinopsis frutescens* <sup>not</sup> mt. valleys 17 mi. from Rio Grande, fl purple
1116. Crucifer valley of a branch 10 mi. from Rio Grande, fl white
1117. Euphorbia mountain valley 25 mi. from Rio Grande
1118. Compositae hillside 15 mi. from Rio Grande
1119. " mountain valley 15 mi. from Rio Grande , sandy soil
1120. Gramineae " " " "
1121. Compositae damp valleys 15 mi. from Rio Grande
1122. Cruciferae Rio Grande valley 60-70 mi. below El Paso Sept 4, 1849  
2-3 ft. tall, fl. white

Wright seems to have estimated the distance from El Paso, at which the party first struck the Rio Grande, as 60-70 miles.

The real distance is about 80 miles by auto road and also by army measurements of the old wagon road.

French, pg 52, gives the measured distances for the expedition as follows,-

Eagle Springs - 31.42 mi. - Rio Grande - 154.84 mi. - lower ford of Rio Grande - 5 mi. - San Elizario - 5.45 mi. - Socorro - 3.10 mi. - Isleta - 7.05 mi. - upper ford of Rio Grande - 7.09 mi. - Coon's Hacienda (El Paso)

about present day town  
of Cuadrillo

	54.84	
	5	
	5.45	
	3.10	
	7.15	
	7.09	
miles	82.53	from first point on Rio Grande to El Paso acc. to French measurement

22 mi San Elizario to El Paso (old French)

acc to Emory distance from San Elizario to last camp on Rio Grande = 59.8 mi.



1123. Cyperaceae Rio Grande Valley 60-70 mi. below El Paso Sept. 4, 1949
1124. "
1125. ----
1126. Compositae
1127. --- , river-bottoms
1128. Portulacaceae , river "bottom," fl. small yellow
1129. Gramineae
1130. *Trianthema*  
Portulacaceae , river bottom  
fl. purple
1131. *Atriplex confertifolia*  
--- , gravelly ridges
1132. *Coldenia hispidissima* , fl. purple
1133. Solidago
1134. Gramineae *Tripsacis* , bottoms
1135. Cyperaceae , overflowed bottom
1136. Nyctaginac. *Selinocarpus chero.* , pebbly hills  
fl. purple
1137. Gramineae , bottoms
1138. " *Eragrostis neomexicana* , "
1139. " , "
1140. Portulacaceae *Portulaca retusa* Eng. , fl. yellow minute,  
sandy Sept. 5, 1949.
1141. Cyperaceae
1142. Dieteria? edge of overflowed bottom of Rio Grande  
60-70 mi. below El Paso, fl. purple
1143. *Eragrostis portulacae*  
Poa valley of Rio Grande 60-70 mi. below El Paso
1144. Sagittaria overflowed bottoms, Rio Grande 60-70 m. below El Paso, fl. white.
1145. Aster valley of Rio Grande 60-70 m. below El Paso
1146. Mammillaria fl. pink or light purp.
1147. Aplopappus
1148. Dieteria
1149. Dalea sandy ridge, purple
1150. Solidago much branched from root
1151. Dichaetophora? fl. light purple
1152. Oenothera sandy soil  
fl. light pink, versperline

Wright's "40-60 mi below El Paso" is halfway between  
~~first point to Rajahmundry and El Paso~~  
near old Ft Hancock or a few miles below

- 40
1153. Helianthus valley of Rio Grande 60-70 mi. below El Paso Sept. 5, 1849  
3-4 ft. tall
1154. Dieteria (equals 1148?) abundant
1155. Galardia sandy soil
1156. Gramineae *Sporobolus aptandrus*
1157. Scrophylar.
1158. Palafoxia
1159. Cuscuta Rio Grande Valley 40-60 mi. below El Paso Sept. 6, 1849
1160. Dieteria , Aster?, low ground
1161. " ? , " "
1162. Gramineae
1163. " *Arctida*
1164. Martynia , sandy ridges, fl. yellow
1165. Hymenopappus
1166. Gilia , sandy ridges, fl. white
1167. *Acanthochiton Wrightii Torr.*
1168. Malvaceae *Sibakederacea* distr. no. 46 , expanded fl pale yellow  
low bottom
1169. Capsella , high & low ground, abundant  
fl. white
1170. ~~*Zelostemma atrop*~~ *in herbarenis* : ~~*what is it?*~~ *Portulacaceae* bottom, fl deep red
1171. Gramineae , on sandy ridges
1172. ~~*Atriplex*~~ *canescens* , fl. not seen
1173. Leguminosae , 8-12 ft., fl. yellow
1174. Physalis , low bottom Sept. 7, 1849  
fl. dull yellow
1175. ~~*Atriplex*~~ *acanthocarpa* Rio Grande Valley 25-30 mi. below El Paso, 1-2 ft. tall
1176. Compositae , bottoms
1177. Aster spinosus
1178. Lepachys
1179. ~~*Atriplex*~~ *acanthocarpa*
1180. ---- , low bottom
1181. Compositae
1182. ~~Aster~~



- 41
1182. Aster Rio Grande Valley 25-30 mi. below El Paso, bottom Sept. 7, 1849
1183. Leguminosae overflowed bottom and sandy valley of the Rio Grande  
fl. deep purple, very much branched Sept. 8, 1849
1184. *Albionia Torreyi*  
Nyctaginac. Rio Grande Valley 8-10 mi. below El Paso, sandy, fl. pink
1185. Panicum Rio Grande Valley 5 mi. below El Paso, low bottom Sept. 9, 1849
1186. *Chenopodium Fremontii*  
Chenopodiaceae " " "
1187. *Heliotropium convolvulaceum* " " " , sandy soil, fl white
1188. Capparid. " " " , Wislizenia,  $1\frac{1}{2}$ - $2\frac{1}{2}$  ft  
fl. yellow
1189. Datura " " " , low bottom, 1-2 ft.  
fl. light purp., much branched and spreading, Sept. 11, 1849
1190. *Pellaea intermedia* var  
fern Mountain side near El Paso, Sept. 12, 1849
1191. Gramineae summit of mt. near El Paso
1192. " " " "
1193. Artemisia Rio Grande valley 5 mi. below El Paso, much branched, 3-5ft.
1194. Compositae " " "
1195. Malvaceae mt.-side near El Paso , fl. light purp., much branched  
from root
1196. Compositae
1197. Senecio , much branched, 1-2 ft tall
1198. Euphorbia
1199. -----
1200. Polygala , fl. purple
1201. Gramineae
1202. Compositae
1203. Gramineae *Sporobolus*
1204. *Quercus pungens* , 507 ft. tall
1205. *Oxyphaps*  
Nyctaginac.
1206. Solidago
1207. fern
1208. Artemisia
1209. Mentzelia Valley of Rio Grande, sandy soil, fl light yellow, vespertine
1210. *Tradescantia Weybittii* Pres. & Burch.  
Tradescantia summit of mountains near El Paso, fl purp.

Faint, illegible text, possibly bleed-through from the reverse side of the page. The text is arranged in several paragraphs and appears to be a formal document or report.

1211. Malvaceae mts. near El Paso, declivity Sept. 12, 1849
1212. Chrysopsis summit & sides, much branching & spreading
1213. Capparidac. " "
1214. Sidalcea slopes, 2 ft. tall
1215. Salvia , summit & sides, fruticose, 1-4 ft. tall  
corolla & calyx purple
1216. Eriogonum? ~~... ..~~ , declivity
1217. Physalis " , fl. dull yellow
1218. Phaseolus " , fl purple
1219. Compositae " , in rock-crevices
1220. Euphorbia " "
1221. Garrya " " , 6-19 ft. tall, in fruit
1222. ~~Rhododendron~~  
Viscum " , on small sp. of oak, 6-8 ft high
1223. ~~Mirabilis axillaris~~  
Nyctaginac. " , in shade, procumbent
1224. Gramineae ~~Muhlenbergia pauciflora~~ . "
1225. Helianthus "
1226. Solidago " , much branched from root
1227. Convolvulus " , climbing, fl. purple
1228. Cactus declivity of mountains near El Paso, ~~fr. scarlet~~ Sept. 16, 1849
1229. " , fruit scarlet
1230. " "
1231. " , fl. pink
1232. " "
1233. " , fruit scarlet
1234. " "
1235. " "
1236. " "
1237. ----
1238. Scrophulariac. bottom of Rio Grande near Presidio de San Elizario  
or Pres. de Bejas Sept. 17, 1849

1875



- Sept. 17, 1849
1239. Compositae "margin of ditches a Secoro" [Socorro on the RG?]   
 1½-3 ft, high, much branching, fl. yellow
1240. cactus declivity of mountains near El Paso
1241. Cactus-fruit from plant up to 3 ft tall & 1½ in. diam., horridly spinose   
 fruit entirely covering the summit, fl. yellow
1242. Malvaceae fields at Presidio de San Elizario, introduced?   
 fl. purple Sept. 18, 1849
1243. Heliotropium curassavie. Presid. S. Elizario, roadside, fl white
1244. Datura road side at Presidio de San Elizario, fl purple
1245. Ambrosia fields at Presid. S. Elizario
1246. <sup>(*Manthemum*)</sup> ~~Portulaca~~ fields at Pres. de S. Elizario
1247. Compositae Rio Grande valley at Pres. S. Elizario, sandbank Sept. 22, 1849
1248. Aster low wet land, fl. purp.
1249. Dretina: " " "
1250. --- in water fl. deep purp.
1251. Plantago low ground & along ditches
1252. ~~*Portulaca*~~ sandy soil
1253. Aster
1254. <sup>*Sagittaria*</sup> ~~*Sagittaria*~~ <sup>*Lophoboschus calycinus*</sup> in ponds
1255. Dalea? in fields, introduced?,   
 fl. white & purple
1256. Sagittaria in water
1257. Leguminosae old field, introduced?   
 (alfalfa sp.)
1258. Dietina on sand-bars
1259. Verbena bottoms
1260. Solanaceae bottoms, fl. purple
1261. --- Pres. de S. Elizario, border of fields, fl. purple Sept. 24, 1849   
 (quiotic sp)
1262. Mentha margin of aqueduct, Pres. S. Elizario, fl white,   
 introduced?, 2-3 ft. tall Sept. 25, 1849
1263. Ambrosia Pres. S. Elizario, abundant in fields
1264. <sup>> *Valeriana*</sup> Gramineae Pres. S. Elizario, one specimen in field Sept. 26, 1849
1265. Nicotiana " " in field
1266. Composite " " , Rio Grande bottom, low land

Socorro , Ysleta and San Elizario are towns along the  
Rio Grande below El Paso. All are on modern maps and  
all are in El Paso County within 20 miles of El Paso.

1267. Gramineae Presidio de San Elizario, irrigated bottom of R.G. Oct. 1, 1849
1268. Compositae " " "
1269. Cyperac. " " field
1270. Salvia " " " , fl. blue.
1271. ~~---~~ <sup>Suaeda?</sup> valley of the Rio Grande near Pres. S. Elizario Oct. 4, 1849  
1-2ft. tall, erect or procumbent, saline
1272. <sup>Callisiphya</sup> Salicornia? valley near Pres. S. Elizario, dense bunch, 2-3ft. tall
1273. Crotalaria fields near Pres. S. Elizario & El Paso, introduces, Oct. 5, 1849  
fl. deep yellow
1274. Gnaphalium Rio Grande valley near Socorro (Manzanilla del rio Sp)
1275. Gramineae pebbly hills near El Paso <sup>Mexico side of river</sup> Oct. 7, 1849  
<sup>Chihuahua</sup>
1276. " " " "
1277. <sup>Taraxacum</sup> " " "
1278. <sup>Berhaavia 24461</sup> Nyctaginac. " "
1279. Senecio Rio Grande bottom below El Paso
1280. Heliotrop. Greggii " " " " , fl. white with greenish-yellow base
1281. Aplopappus " " " "
1282. Bidens Isletta, edge of field, 4-6 ft. tall, much branched
1283. Gilia? hills near El Paso, fl. bright red
1284. Compositae " " , fl. white, plant 6-12 in. tall
1285. Hymenatherum " "
1286. <sup>Atropis obovata</sup> (Yerba de la tortola Sp) hills near El Paso Oct. 8, 1849
1287. Sidalcea " " "
1288. Dalea mountains near El Paso fl. yellow
1289. Compositae " "
1290. Euphorbia
1291. -- mountain-ravine near El Paso, fl. purple
1292. <sup>Sedum Weylandii</sup> Portul. or Crassulac. summit of mountains near El Paso  
fl. light red nearly white
1293. Polygala summit of mts. near El Paso
1294. <sup>Amaranthus</sup> Amaranthac. Rio Grande valley near El Paso Oct. 11, 1849

The party is reported as beginning its return on Oct. 11th. They took the northern route which goes due east and slightly north from El Paso, cutting thru the southern end of the Guadalupe Mts, and then along Delaware Creek until it joins the Pecos. "But in the middle of October the winter set in with such severity that I thought the lives of our mules depended on our turning southward. The men also were equipt for summer. Therefore instead of crossing the Pecos we marched down it to the southern road [the one which they had used on the out trip] which was followed to San Antonio where the party arrive the 23rd of November" 1849.

ev. J. F. Tolsted  
 7000 p. 27  
 San. Ex. Co. Docs  
 no 64 p 27

The report gives Hueco or Waco Tanks (in the Hueco Mts. on the El Paso-Hudspeth countyline) as about 30 miles from El Paso. Collections of Oct. 12th are probably El Paso County. Those thru the 15th probably in Hudspeth Co. Those until October 20th are in northern Culberson Co. Between Oct. 21 and Nov. 2nd the party was in the Pecos Valley in Reeves, Pecos and Crockett counties

16th

between 16-20 Culberson Co

should this be "55" →

should this be "50" →

1295. Composite prairies east of El Paso, shrub 2-5ft tall Oct. 11, 1849
1296. *Martynia* Rio Grande valley near El Paso, fl purple
1297. ---- prairie 6-30 mi. east of El Paso, suffruticose Oct. 12, 1849  
much branched,  $1\frac{1}{2}$ -3 ft. tall
1298. Composite, prairie 6-30 mi. E. of El Paso, 3-4 ft. tall
1299. Leguminosae " " " "
1300. Compositae " " " "
1301. Scrophulariac prairie 25 mi. E. of El Paso, fl yellow, much branched
1303. ~~Platiatus~~ mountain valley 30 mi. east of El Paso, under rocks at  
base of mts., 1-2 ft. tall
1302. Helianthus mt. valley 30 mi. E. of El Paso, branched 2-3 ft. tall
1304. Helianthus " " "
1305. Desmodium " " "
1306. Cassia " " " , fl small yellow
1307. <sup>*Hydrocotyle*</sup> ~~Gremineae~~ *Andropogon* (no. 805) " " "
1308. Mentha " " " , fl. white
1309. Composite mt. valley 35 mi. E. of El Paso Oct. 13, 1849
1310. Quercus " " " large spreading tree 12-20ft.
1311. Galactia " " "
1312. Solidago " " "
1313. Compositae " " " , much branched
1314. Convolvulus " " "
1315. Gnaphalium " " "
1316. Salvia mt.-branch 40 mi. E of El Paso, fl scarlet Oct 14, 1849
1317. Gramineae " " "
1318. Hymenatherum " " " , abundant
1319. Compositae " " " , much branched, 4-5 ft. tall
1320. <sup>*Asarum (Panicum) caespitosa*</sup> ~~Saxifragaceae~~ crevices of rocks on mountains east of El Paso,  
fl. whitish, spreading in flat patches 1-3 ft. broad
1321. ---- on rocks in mountains east of El Paso, presented by  
Col. Johnson, odorous when fresh

30 mi by highway to Aneco Tanks from El Paso

120 mi by highway, El Paso to Tene Aps.

---

	near El Paso	real distances
Oct 11		
12	To Waco Tanks	6-30 mi
13	around Waco Mt (= Cerro Alto)	35 mi
14	Cerro Alamo	(50-55 mi)
15	Carrizos	(60-65 mi)
Oct 16	Casa Aps & beyond	(70 mi)
17	to Tene Aps	(120 mi)
18		
19	from Tene Aps	(
20		
21		
22		
23		
24		
25	From Tene Aps	

Nov 2 - started Ten Cok crossing  
on San Ant - El Paso Rd.

1322. *Nyctaginia* <sup>*Miscobolus eximius*</sup> at the foot and in the shade of high rocks, fl. purple Oct. 14, 1849
1323. *Oplotheca* <sup>*Frodichia*</sup> sides of the Guadalupe Mts., fl yellow Oct. 15, 1849
1324. Compositae sides of Guadalupe Mts., 40 mi. E. of El Paso, 1-2 ft. tall
1325. ---- salt plains at western base of Guadalupe Mts. Oct. 16, 1849
1326. *Senecio* <sup>*hastatus*</sup> " " "
1327. *Cruciferae* <sup>*Erysimum*</sup> sides of Guadalupe Mts., fl yellow
1328. Compositae plains at base of Guadalupe Mts,
1329. " banks of a dry creek at Guadalupe Mts.
1330. " near a fine spring in plain at base of Guadalupe Mts. <sup>east</sup> Oct. 18, 1849 [= fine spring]
1331. " " " " "
1332. *Solidago* " " " "
1333. *Aster* " " " "
1334. *Hymenatherum* rocky bank of creek east of Guadalupe Mts. <sup>*Chrysactina*</sup> in large bunches - also on the Pecos
1335. " data as with last, only a few specimens seen.
1336. *Mentzelia* plain at eastern base of Guadalupe Mts
1337. *Cedra* <sup>*Juniper*</sup> Guadalupe Mts.
1338. *Oenothera tubicula densa*
1339. *compositae* <sup>*Achillea*</sup> plain at eastern base of Guadalupe Mts.
1340. *Salvia* , fl blue
1341. *Baccharis* banks of creek tributary to the Pecos, 3-4ft. tall Oct. 20, 1849
1342. Compositae " " " "
1343. *Gramineae* " " " , 6-8ft. tall
1344. *Dicranocarpus* ---- plains betw. the Guadalupe Mts & the Pecos
1345. *Mentzelia* " " " " "
1346. *Gramineae* <sup>*Trechloides*</sup> Valley of the Pecos, in bunches, abundant Oct. 25, 1849
1347. *Sporobolus Wrightii* " "
1348. *Sporobolus crypt.* " "
1349. " " "

Oct 25 mostly down to in Pecos R.

26

27

28

29

30

31

Nov. [1]

west side of  
Pecos River  
Pecos + Reeves Co

as for ... 5th

2 Live Oak Co (Crockett Co!)

3 Comanche Co (? Howard's Apr?)

4

5 west of Davis Pk. (Val Verde Co?)

[6]

7 Devils Pk



- 17
1350. Gramineae Valley of the Pecos, in bunches Oct. 25, 1849
1351. " " in low places, 4-6 ft. tall
1352. " " In thick bunches
1353. " " In thick bunches
1354. Compositae " fl. white or purplish
1355. Cyperaceae " margin of brackish water
1356. Conдалис " much branched shrub 2-5ft, fl. yellow,  
Oct. 28, 1849
1357. Mamillaria hills of the Pecos Oct. 29, 1849
1358. " Valley of the Pecos
1359. cactus hills and valley of the Pecos
1360. Mammillaris " " " " (to the RioGrande & Devils R.)
1361. cactus " " " " Oct. 30, 1849
1362. cactus hills of the Pecos
1363. cactus hills & valley of the Pecos (to the RioGrande & Devils R.)
1364. Baccharis bottom of the Pecos
1365. *Juniper*  
~~cedar~~ hills of the Pecos Oct. 31, 1849
1366. cactus " " "
1367. cactus " " "
1368. cactus hills of the Pecos & eastwood Nov. 2, 1849
1369. Jungermannia? hills east of the Pecos *[Crochall Co.]*
1370. lichen on rocks east of the Pecos dates for this and the following not given
1371. mucil on rocks east of the Pecos
1372. *Setaria magna*  
Gramineae margin of Live-oak Creek
1373. *Andropogon scop.*  
" banks of small creek east of the Pecos
1374. *Asplenium* bed of small creek east of the Pecos
1375. ----- sides of hills 3 days march from the Pecos Nov. 3, 1849
1376. *R. Bellan*  
Loranthaceae " " " berries pellucid reddish-white, on cedar
1377. Lonicera bed of creek east of the Pecos, fruit only
1378. Muci. shade of rocks on hills beyond Devils River Nov. 5, 1849

1383 in herb = Dicranous fasciat

6

7

8

9

10

11

east of lower crossing Dennis R

12

road S. Felipe

13

Pinas River

1379. Muci crevices of rocks on hills beyond Devils River Nov. 5, 1849
1380. Ephedra valley of Devils River, much branched and Nov. 7, 1849  
spreading, 3-6ft, fruit & numerous buds
1381. ---- hills of Devils Riv. a much branched shrub 2-4 ft. tall  
crevices of rocks, fl. white
1382. Rhus hills of Devils River, branched shrub 2-4 ft.  
berries scarlet
1383. ---- hillside, Devils River, berries bending to ground  
and rooting
1384. ~~Thapsalidrum~~  
Viscum Devils River, on mesquite, hackberry etc. Nov. 8, 1849
1385. Muci " on earth
1386. " " dark damp rock-crevices
1387. " " " " "
1388. Helianthus spring 15 mi. east of lower crossing of Devils River  
Nov. 11, 1849 ↑
1389. " along creek-bank from Devils R. to the-San Felipe
1390. Aster road-side on Devils River, fl. white
1391. ---- hills of Devils River Nov. 12, 1849
1392. ~~Eragrostis~~  
Gramineae prairies near Devils River
1393. Corchorus? along small stream tributary to Devils-
1394. (~~Crassulaceae~~ ~~Sedum~~ ~~Unguiti~~) hills of Devils River, rock-crevices
1395. Cyperaceae spring 15 mi. east of Devils River
1396. Levis (??) nutans hills of Devils River
1397. Leguminosae hills & prairies very abundant 2-6 ft. tall
1398. ---- shrub common on hills much branched, 2-4 ft. tall
1399. Polygala hills of Devils River, fl. greenish yellow  
simple or branching from root
1400. ~~Agave~~ ~~Boehmeria~~  
Amaryllidac. Devils River, abundant
1401. Jungermannia? crevices of rock on hills of Devils River
1402. cactus hills of Devils river, single or clustered ~~Nov. 12, 1849~~
1403. Bidens San Felipe creek in rapid current in water
1404. Euphorbia Nueces bottom and gravelly bed of creek Nov. 13, 1849
- -----  
-----

11

Faint, illegible text covering the majority of the page, possibly bleed-through from the reverse side.







Charles Wright's collections of 1851-52  
as botanist on the U.S.-Mex. Boundary Survey

This list of field-numbers is in three parts as follows, -

pt. 1. nos. 1-579, May 9th to June 24th, 1851

plants collected between San Antonio and El Paso, Texas

pt. 2. nos. 1-952, July 4th to Nov. 6th, 1851

plants in so. New Mexico, se. Arizona and no. Sonora

pt. 3. nos. 1-588, Feb-July, 1852.

plants collected in New Mex, no. Chihuahua, El Paso to S. Antonio.

1. Boraginaceae Castroville to Sabinal, stony prairies, roadside May, 9, 1851
2. Dalea " " " , prairie May, 11, 1851
3. Morus " " " , hills, much branched 4-8 ft.
4. grass " " " , prairie
5. Solanac. Quihi, stream-bank, fl. light purple
6. <sup>(Manfreda)</sup> Agave rocky hills on the Hondo (also near the Leona)  
fl. white with a tinge of yellow
7. Euphorbiac. gravelly banks of the Sabinal May, 12, 1851
8. Vesicaria " " "
9. Ptelea banks of the Sabinal, 2-3 ft, tall
10. Mimosa prairies betw. Hondo and Sabinal, 2 ft. high, forming  
small thickets
11. Malva margin of thickets, Hondo to Sabinal
12. Leria nutans mesquit-thickets on Comanche Cr.
13. Euphorbiac. gravelly hills, Hondo to Sabinal
14. Dipteracantha prairies, Hondo to Sabinal
15. Composit " "
16. Malva " " , roots tuberous
17. Euphorbia thickets, Hondo to Sabinal
18. Gaillardia hills of the Hondo
19. Euphorbiac. " " "
20. Pentstemon banks of the Hondo
21. Euphorbia prairies, Hondo to Frio May, 13, 1851
22. Oenothera declivities of the Sabinal
23. Malpighia " " "
24. Yucca tortif.? " " "

Wright's collections up thru the 12th are all from Medina County

The collections ~~of~~ of the 13th and 14th are from Uvalde Co east of the present city of Uvalde. Wright probably camped on the Rio Leona the night of the 14th near the site of the present city of Uvalde.

He crossed the Rio Nueces (<sup>W.W.</sup> west of present Uvalde) and probably camped there the night of May 15th.

*Night of May 13<sup>th</sup> camp probably on Rio Frio*



25. Dasyilirion Lindheimer. among rocks, declivities of Sabinal May, 13, 1851
26. *Physalis* roadside, Hondo to Frio, much branched from root, fl. purple
27. Composit. prairies, Hondo to Frio, fl. light purple
28. *Tradescantia* "<sup>*occidentalis*</sup> " " , very smooth & glaucous
29. *Asclepias* Hondo to Frio, climbing on bushes
30. *Yucca filam.*? prairies, Hondo to Frio
31. *Scutellaria* prairies near the Sabinal
32. *Euphorbiac.* " " "
33. *Micromeria* Sabinal to the Frio
34. *Rutosma* stony prairie of the Sabinal, not rare
35. *Linum* crevices of rocks on the Sabinal
36. (<sup>*Lucasena reclusi*</sup> *Mimosa* pebbly bars of the Frio, 4-6 ft. tall, much branched from root
37. *Cucurbit* mesquite-thicket, Frio to the Leona, dioecious May, 14, 1851
38. *Mimosa* prairies, Frio to the Leona, large spreading bush, 4-10 ft. tall
39. *Euphorbia* prairies, Frio to Leona, many stems from same root
40. *Vesicaria* mesquite prairies, Frio to Leona
41. grass prairies of the Leona, in large dense bunches
42. *Actinella* " "
43. *Euphorbiac.* " "
44. grass *Aristida* " " , large dense bunches
45. " *Leptoloma* " " , in small bunches
46. " " " " , in small dense bunches
47. " *Hilaria* " " " " "
48. " *Panicum obus.* " " " " "
49. *Arcalida purpurea* " in large dense bunches
50. Composite " "
51. " sand bars of the Nueces May, 15, 1851
52. *Coreopsis* prairies betw. the Leona and Nueces
53. Umbellifer " " " "
54. Composite stony prairies, Leona to the Nueces

Having almost certainly camped the night of May 15th at the crossing of the Rio Nueces (slightly NW and about 9 mi. from present Uvalde), the party appears to have camped at Elm Creek the next night (the 16th.). They crossed Turkey Creek ~~which is~~ (near Cline) in extreme western Uvalde County and soon entered eastern Kinney County. Elm Creek (or Chicon Cr.) is about 7 miles due east of Brackettville, Kinney Co.

Probably all the collections made May 16th came from eastern Kinney County.

20 1 19 10 10

- 55. Euphorbia rich prairies between the Leona and Nueces May, 15, 1851
- 56. Euphorbiac. " " "
- 57. ----- " " "
- 58. Aphora " " "
- 59. Senecio pebbly bars of the Neuces
- 60. Euphorbia do.
- 61. Phlox do.
- 62. Bignoniac. do. ,4-6ft, much branching
- 63. *Salix longipes* do. , " "
- 64. Gnaphalium sandy bars of the Nueces
- 65. Liliac or Agave? stony hills west of Nueces, 2-4 ft. tall
- 66. Composite stony hills west of Nueces
- 67. *Cordia padoceph.*  
Verbeniac. prairies, betw. Turkey and Elm (Chicon) creeks May, 16, 1851
- 68. Dipteracanthus ditto.
- 69. Compositae do.
- 70. Leguminosae do.
- 71. Tragia do.
- 72. grass *Hilaria* do.
- 73. Abutilon physocalyx do.
- 74. Euphorbiac do.
- 75. Hedyotis limestone prairies on Elm Creek and onward
- 76. *Borshaavia linearis*  
Nyctag. high rocky limestone prairie, Turkey Cr. to Elm Cr.
- 77. Hoffmannseggia do.
- 78. *Adesmia thes anemopl.*  
Nyctag, do.
- 79. Lobelia margin of Elm Creek
- 80. Asclepias betw. Turkey Cr. & Elm Cr., high rocky limestone prairie
- 81. Vesicaria do.
- 82. Compositae do.
- 83. Polygala edge of thicket, Elm Cr. (and onward) common (San Pedro)
- 84. Boraginac. rocky prairies of Elm (or Chicon) Creek

All Kinney County

From their camp made the night of May 16th on Elm (or Chicon) Creek, which is about 7 miles due east of present Brackettville, the party next day continued westward through central Kinney County. No. 102 from the head of Las Moras is from the site of present Brackettville.

Piedra Pinta Creek (now called Pinto Creek) is about 7 miles west of Brackettville and appears to have been the site of camp the night of May 17th.

- 85. Proserpinaca margin of Elm(or Chicon) Creek May 16, 1851
- 86. Chara do.
- 87. alga do.
- 88. --- stony prairies Chicon Cr. to Piedra Pinta Creek May 17, 1851
- 89. Vesicaria
- 90. Apocynac.
- 91. Krameria
- 92. Euphorbia
- 93. Aspicarpa
- 94. Passiflora
- 95. Aristoclochia
- 96. Malvaceae
- 97. cactus
- 98. Compositae alluvial prairie, Chicon Cr. to Piedra Pinta Cr.
- 99. Abutilon stony prairies Chicon Cr. to Piedra Pinta Cr.
- 100. Scutellaria do.
- 101. Micromeria do.
- 102. Characeae head of <sup>a</sup>Los <sup>a</sup>Morós Cr.
- 103. Euphorbia stony prairie, Chicon Cr. to Piedra Pinta Cr.
- 104. Castilleja alluvial soil on Piedra Pinta Cr.
- 105. Scrophular. do.
- 106. Malvaceae do.
- 107. Verbena do.
- 108. Gilia *regidula Benth* do.
- 109. Abutilon do.
- 110. Boraginac. *Lithospermum* do.
- 111. Astragalus do.
- 112. Trichocoronis rivularis in Piedra Pinta Cr.
- 113. Hoffmannseggia Piedra Pinta Cr. to Zoquete Cr., stony prairie May 18, 1851

*Agcamore*

The night of May 18th the party camped at Zoquete Creek (in his notes for the 1849 expedition Wright called this "Zacate Creek"). It is now called ~~Mad~~ Creek. This creek is about 9 miles west of Piedra Pinta (or Pinto) Creek where the party camped the previous night. It is ~~an extreme western Kinney County less than 2 miles from the Kinney-ValVerde county-line.~~

The night of May 19th the party reached San Felipe Springs, a mile or so from the present town of Del Rio, Val Verde County. Most of the collections dated May 19th were collected in extreme southeastern ValVerde County ~~west~~<sup>east</sup> of Del Rio.

- 5  
May, 18, 1851
114. Dipteracanthus alluvial prairies betw. Piedra Pinta & Zoquete Cr.
  115. <sup>(Cercidium texana)</sup> Leguminosae stony prairies, Piedra Pinta to Zoquete cr.  
a much branching & spreading shrub 2-4 ft. tall
  116. Compositae stony prairies, ~~On Zoquete Creek~~ Zoquete Cr.
  117. <sup>(Pentstemon sp. no 1713.)</sup> Boraginaceae stony prairie on Zoquete Creek = *Heteropogon angustifolius*
  118. chara in Zoquete (or Mavericks) Creek
  119. Scirpus do
  120. " do.
  121. " do.
  122. fungi stony prairies, Piedra Pinta to Zoquete Cr.
  123. Scirpus in Zoquete Creek
  124. Talinum aurantiacum alluvial prairies of Zoquete Creek
  125. Rivina thickets of Zoquete Creek
  126. Mimosa stony prairies, Zoquete Cr. to San Felipe May. 19, 1851
  127. Gaura " " " "
  128. Scrophular. pebbly bed of a creek between Piedra Pinta & San Felipe
  129. Salvia do.
  130. Euphorbiac. do.
  131. Malpighiac. do.
  132. Cassia stony prairies, Zoquete Creek to San Felipe
  133. grass do.
  134. Euphorbia do.
  135. Loasaceae stony prairies on San Felipe Creek
  136. *Nana-lepidum* do , much branched from root
  137. Compositae do.
  138. Chrysopsis do.
  139. Hymenatherum do. May, 20, 1851
  140. Dalea , much branched, 1-2 ft. tall
  141. <sup>(Tichospermum nitorensense)</sup> Boraginac. alluvial bottom on San Felipe Cr.
  142. Prunus stony hills of San Felipe Cr.
  143. Asclepiad. do.

The party appears to have spent May 20th in camp ~~at~~ San Felipe (i.e. near present Del Rio, Val Verde County)

May 21th the trip north and northwestward (thru Val Verde and Crockett countys) to the Pecos was begun. This route roughly follows the present highway from Del Rio to Comstock and then north thru Juno to several miles within Crockett Co. where the old road went ~~at~~ generally northwest to old Ft. Lancaster on the lower Live Oak Creek near the Pecos.

In his first expedition, in 1849, Wright used Devils River for the stream he calls the San Pedro in the present list. In his time the stream was commonly spoken of as the Devils or San Pedro River. It is now known as the Devils River.

- May 21 From Felipe to Lower Devils R.  
22 (2 to 3 miles above?)  
23 2nd Crossing of Devils R.  
Upper Devils R.  
27 Lower Devils R.

Big Bend of Devils & S Pedro river  
is only a few miles above its mouth  
near highway & railroad bridges.



144. *Physalis* stony hills of San Felipe Creek May, 20, 1851
145. *Micromeria* do.
146. " do.
147. *Plantago* do.
148. " do.
149. <sup>*Chelidonium*</sup> *Compositae* do.
150. " do.
151. *Perezia* do.
152. *Sidalcea* alluvial prairies of the San Felipe
153. <sup>*Saunderbiana*</sup> *Nyctaginac.* stony hills of the San Felipe
154. *Dipteracanthus* Alluvial prairies & thickets of San Felipe Creek
155. <sup>*Agave lechuguilla*</sup> *Liliaceae* Stony hills of the San Felipe
156. *Umbellifer.* do.
157. " do.
158. *Cuscuta* do.
159. *Ambrosia* alluvial prairies of the San Felipe
160. *Linum* stony hills of the San Felipe
161. *Scrophulariac.* do.
162. *Psoralea* do.
163. *Malea* stony hills from San Felipe to San Pedro May, 21, 1851
164. <sup>*Adeuxanthes longifl.*</sup> *Nyctaginac.* do.
165. *Euphorbia* high cliffs of the San Pedro
166. -----? stony prairies, San Felipe to San Pedro 1-2 ft. tall
167. -----? do.
168. <sup>*Pentacrostylis Wrightii*</sup> *Nyctagineae* stony prairie at camp in big bend of the San Pedro.
169. *Pentstemon* rocky bluffs, camp at big bend of the San Pedro
170. *Euphorbia* do.
171. *Opuntia* do.
172. *Erythraea* do.

Devils River, Val Verde Co.

173. Yucca hills in the big bend of the San Pedro, 3-4ft. tall May 22, 1851
174. Hymenatherum? do. , 2-3 ft. tall
175. Yucca do. , 3-4 ft. tall
176. Euphorbia prairies in the big bend of the San Pedro
177. Nyctaginac. do.
178. Asclepiad do.
179. Hoffmannseggia stony hills, big bend of San Pedro
180. Compositae do.
181. Euphorbia do.
182. Apocynac. rocky hills in the big bend of the San Pedro
183. Boraginaceae do.
184. Fouquieria rocky hills of the San Pedro May, 23, 1851
185. Callirhoe bottom of the San Pedro
186. " do.
187. Cyperus margin of the San Pedro
188. Sida bottom of the San Pedro
189. ~~Tomilium~~ do.
190. ~~Geranium~~ do.
191. Teucrium do.
192. Cucurbit do. , certainly monoecius, Pl. Lindh. #399
193. Opuntia rocky hills of the San Pedro
194. Sida low do.
195. ~~-----~~ do. , fl. white
196. Composite do.
197. Hymenatherum do.
198. Leguminosae do. , Acacia Roemerana?
199. " do. , Mimosa fragrans? May, 24, 1851
200. Paronychia do.
201. *Peelaea microphylla* fern hills of the San Pedro
202. S  
pe

Devils River, Val Verde County

- 7
202. *Specularia* Hills of the San Pedro May, 24, 1851
203. *Melica nitens*  
grass bottom of the San Pedro May, 25, 1851
204. " do.
205. *Vitis* pebbly bottom of the San Pedro
206. *Rhus* do.
207. Compositae rock-crevices, hills of the San Pedro
208. (*Alysicarpus*  
~~grass~~ bottom of the San Pedro May, 26, 1851
209. grass do.
210. *Lepachys* do.
211. *Clematis* do. , climbing 6-10 ft.
212. *Zygophyll.* do.
213. *Riddellia* do.
214. *Viola* shady bottom of the San Pedro
215. *Psoralea* rocky hills of the San Pedro
216. *Coreopsis*  
*Thelypodium* do.
217. " do.
218. *Verbena* do.
219. Umbelliferae do.
220. Compositae do.
221. *Cassia pumila* bottom of the San Pedro May, 27, 1851
222. *Crysimum* pebbly bars of the San Pedro
223. grass alluvial bottom of the San Pedro
223. " do.
224. *Hilaria* do.
225. " do.
226. " do.
227. " do.
228. *Monarda* hills beyond the San Felipe? *San Pedro?*
229. grass do.
230. *Euphorbia* do.

All Crockett County

The road left the San Pedro (i.e. Devils River) about a mile below the present town of Juno and following the fork of Devils River known as Johnson Creek to 5-10 miles north of the Val Verde-Crockett county-line. It then went into the valley of the next paralleling stream to the west (i.e. Howards Creek) to Howards Springs. From here, continuing generally NW. in Crockett Co., the road led into Live Oak Creek down which the road led to the Pecos. Near the mouth of Live Oak Creek was located old Ft. Lancaster.

- 9
231. *Echinocereus* rocky hills beyond the San Pedro May, 27, 1851
232. *Verbena* do. May, 28, 1851
233. " do.
234. *Convolvulus* do.
235. *Cooperia pedunculata* do.
236. *Potamogeton pectinatus* Howard Creek
237. " *foliosus* do.
238. Compositae pebbly bed of Howard Creek
239. *Juncus* margin of Howard Creek
240. *Eriogonum* pebbly bed of Howard Creek May, 29, 1851
241. Rhamnaceae? prairies, Howard Cr. to Live Oak Cr., 1-2 ft. tall
242. Compositae do.
243. *Cuscuta* do.
244. Compositae do.
245. " do.
246. *Cirsium* do.
247. Cucurbitaceae Rocky banks of Howards Creek
248. *Bolivaria* pebbly bed of Howard Creek
249. *Tradescantia*<sup>*occidentalis*</sup> valley of Howard Creek
250. *Cooperia* valley of Live Oak Creek
251. *Polygala* valley of Live Oak Creek May, 30, 1851
252. Cyperac. margin of Live Oak Creek
253. *Lepidium* valley of Live Oak Cr.
254. *Castilleja* do.
255. *Talinum* do. , near *T. aurantiacum* with light yellow fl. & narrower leaves, yellow var. alone seen
256. *Scirpus* margin of Live Oak Cr.
257. *Engelmannia* valley of Live Oak Cr.
258. *Polygala* hills of Live Oak Creek May, 31, 1851

probably all from the <sup>near the Ferry across</sup> east bank of the Pecos  
and ~~so from Crockett County~~  
a few miles (7mi) above Ft. Lancaster  
# in adjoining Crockett & Pecos counties  
in the vicinity of present-day Sheffield



- 259. *Krameria* hills of Live Oak Creek May, 31, 1851
- 260. Leguminosae do.
- 261. *Gnaphalium* Valley of the Pecos
- 262. Compositae do.
- 263. *Asclepias* do.
- 264. *Dichondra* do. , in live-oak groves
- 265. *Scirpus* margin of the Pecos
- 266. *Oenothera* stony hills of the Pecos, near *O. serrulata* (Sabinal-Pecos)
- 267. *Pentstemon* do. , fl. blue-purple
- 268. *Astragalus* do. , fl. yellow
- 269. *Gaillardia* do.
- 270. *Asclepias* do.
- 271. *Sida* <sup>long pet. part fine</sup> do.
- 272. *Filago?* do.
- 273. *Talinum aurantiacum* alluvial soil, valley of the Pecos
- 274. *Asclepias* do.
- 275. *Gaura* stony hills of the Pecos June 1, 1851
- 276. <sup>*Adesansches longifl.*</sup> *Nyctaginac.* do. , fl. white
- 277. *Parietaria* high rocky hills of the Pecos
- 278. *Euphorbia* high stony hills of the Pecos
- 279. *Asclepias* do.
- 280. *Vesicaria* do.
- 281. *Galium* high rocky hills of the Pecos
- 282. <sup>*Orbicular*</sup> *Nyctaginac.* do.
- 283. Compositae do.
- 284. fern do.
- 285. *Lygodesmia* high stony hills of the Pecos
- 286. *Plantago* do.
- 287. fern do.
- 288. *Pellaea microphylla* do.

probably all from <sup>west</sup>~~east~~ side of the Pecos  
and so from ~~Crockett Co.~~  
Pecos County

along road between Sheffield & Iraan

289. grass *Durbinii* ♀ Banks of the Pecos June, 2, 1851  
*Distichlis* ♂  
290. " do.  
291. Indigofera pebbly bed of a small tributary of the Pecos  
292. Compositae Valley of the Pecos, alluvial soil  
293. Bouteloua [spelling?] valley of the Pecos, stony prairie  
294. Hoffmannseggia Valley of Pecos, stony prairie, root a woody tuber  
295. " Valley of Pecos, alluvial soil near river  
296. Heliotropium Greggii Valley of Pecos, stony hills  
297. Hymenopappus do.  
298. Mammillaria radiosa Valley of Pecos, alluvial soil  
299. Compositae Valley of Pecos, stony hills, 2-4 ft. high, branched  
300. Dalea Valley of the Pecos, stony hills  
301. Oenothera Valley of Pecos, stony prairies  
302. Compositae do. , dense patches, river-margin  
303. grass *Luhlenbergii* *asperifol.* do. , alluvial soil  
304. Euphorbia do. , do.  
305. Eriogonum do. , on stony hills  
306. Physalis do. , sides of rocky hills  
307. Hymenatherum do. , sides & summits of rocky hills  
308. Abutilon do. do.  
309. Scrophulariac. do. , sides of rocky hills  
310. Bolivarica do. do.  
311. Desmanthus do. do.  
312. Scutellaria do. do.  
313. Micromeria do. do.  
314. grass *Silena* (no 2094) do. do.  
315. Dalea *futescens* do. do.  
316. Eutoca do. , sides & summit of rocky hills  
317. Mimosa do. , sides of rocky hills

probably all from the <sup>west</sup>~~east~~ side of the Pecos  
and so from ~~Crockett Co.~~ Pecos County

along road between Sheffield & Iraan.

- 318. Sphaeralcea Valley of the Pecos, alluvial soil, June 2, 1851
- 319. Abutilon do. do.
- 320. Gaura Valley of the Pecos, alluvial soil June 3, 1851
- 321. Oenothera do. do.
- 322. Hoffmannseggia do. stony prairies, fl. very sweet scented
- 323. Nyctaginac. do. stony prairies
- 324. Solanum do. alluvial soil, abundant
- 325. Scrophulariac. do. alluvial soil
- 326. Actinella do. stony prairies
- 327. Oenothera do. alluvial prairies
- 328. Scrophulariac do. do.
- 329. Echinocactus do. stony hills
- 330. Vesicaria do. stony hills & alluvial prairies
- 331. Euphorbia do. sides of rocky ridges
- 332. Palafoxia do. sides of rocky ridges & in ravines
- 333. (Stenandrium barbatum sp.)  
Scrophulariac. do. sides of stony ridges
- 334. Polygala do. sides of stony ridges & in alluvial at base
- 335. Streptanthus do. near summit of stony ridges
- 336. Heliotropium do. in alluvial soil, June 4, 1851
- 337. Aphora do. do.
- 338. Lygodesmia do. do.
- 339. Cucurbit do. do. , climbing bushes
- 340. Physalis do. do.
- 341. Lepidium do. do.
- 342. Oenothera do. do.
- 343. (Atriplex canescens)  
Chenopod. do. in sandy soil near Pecos
- 344. Loranthac. low rocky hills on cedars
- 345. Leucophyllum minus Rocky hills of the Pecos
- 346. Scrophulariac. Rocky hills of the Pecos, fl. light purple
- 347. Cereus Greggii in loose sandy soil near margin of the Pecos

All Pecos County

The party left the Pecos River apparently on June 5th, probably near the present town of Iraan and travelled west to Escondido Creek (~~now known as Mule Cr.~~)

The 6th. the party continued along Escondido Creek (8 miles) to Escondido Springs.

Comanche Springs (the present <sup>Stockton</sup>) lies 20 miles west of Escondido Springs

June 5, 1851

- 348. Compositae valleys from the Pecos to Escondido Creek, alluvial soils
- 349. Statice near Escondido Creek, soil impregnated with salt
- 350. Fallugia betw. Pecos & Escondido Cr., alluvial soil
- 351. Compositae do.
- 352. " do.
- 353. Scrophulariac. do.
- 354. Opuntia arb. do. , 3-6 ft. tall
- 355. Boraginac. Pecos to Escondido Creek, stony prairie
- 356. Eutoca <sup>Phaula Poppei</sup> do. do.
- 357. <sup>Selinocarpus affinis</sup> Nyctaginac. Valley of the Pecos near the hills

June 6, 1851

- 358. Chara in Escondido Creek
- 359. " do.
- 360. Cereus hills of Escondido Creek, stems very numerous
- 361. Umbelliferae hills of Escondido Creek
- 362. Scirpus margin of Escondido Creek
- 363. Cirsium grassy flats near Escondido Creek
- 364. Juncus do.
- 365. Nyctaginac. do. , in small mesquite-thickets
- 366. Cereus prairies in valley of Escondido Cr., stems few or single
- 367. Astragalus prairies at Escondido Springs
- 368. Cereus stony prairies along Escondido Creek, stems few or single
- 369. Gnaphalium among rocks, dry bed of Escondido Creek
- 370. Opuntia Escondido Springs
- 371. Sphaeralcea Escondido Springs to Comanche Spr., stony hills, June 7, 1851
- 372. Leguminosae do. "
- 373. Dipteracanthus do. "
- 374. Opuntia do. , rocky hills
- 375. Cryptantha mexicana do. , stony hills
- 376. Nicotiana Escondido Springs , rock-crevices
- 377. Cirsium grassy flats, Escondido Spr.

Comanche Springs is the present town of Stockton  
Spr.

about 10 miles west of Comanche, lies Leon Springs  
where the party appears to have camped the  
night of June 8th.

The next sure wateringplace on the road is in the  
lower reaches of the Limpia at about the Pecos-Jeff Davis  
county-line., and about 35 miles west and somewhat south  
of Leon Springs. Here the party probably camped the  
night of June 9th.

The collections of June 11th are probably from  
within Jeff Davis County, those of  
previous date are from Pecos County



- 14
378. Actinella rocky hills above Escondido Springs June, 7, 1851
379. (*Pentacroply, wrightii*)  
Nyctaginac. stony hills at Comanche Springs
380. (*Silimocarpus diffusus*) do. the two growing together
381. Actinella do.
382. -----? *Erygonium abertianum?* do. June 8, 1851
383. Croton do.
384. Mamillaria macromeris Comanche Spr. to Leon Sprs. prairies
385. -----? low saline flats near Leon Sprs., fl light purple
386. chara in Leon Springs
387. Cooperia on stony hills near Leon Springs, fl yellow
388. *Distichlis*  
grass margin of Leon Sprs. in dense patches June 9, 1851
389. Asclepias Leon Sprs. to the Limpio, prairie-dog towns
390. Opuntia stony hills of the Limpio
391. Phaseolus Valley of the Limpio, alluvial soil
392. Compositae do. do.
393. *Panicum obtusum*  
Carex mountain springs flowing towards the Limpio
394. Vernonia mountain valley of the Limpio
395. Habenaria mountain springs flowing towards the Limpio
396. Cirsium mountain valleys descending to the Limpio
397. (*Oreocarya jamesii*)  
Boraginaceae pebbly bed of the Limpio
398. Crucifer do.
399. Eryngium do.
400. crucifer valley of the Limpio, alluvial soil
401. Opuntia bed of Limpio, light alluvial soil June 11, 1851
402. Senecio do , among pebbles
403. Asclepiad. valley of the Limpio, climbing low bushes
404. Gaura do. , alluvial soil
405. Potamogeton in the Limpio
406. Ranunculus margin of Limpio
407. Monarda valley of the Limpio, alluvial soil

Along Limpia Creek in the Davis Mts.  
Jeff Davis County

During his trip of 1849 Wright called the creek Limpia  
but adopted the masculine ending, Limpio, on his  
expedition of 1851-52. Present usage sanctions, Limpia

Wright in letter to Gray dated July 9, 1851 states,-  
"...but when we reached the Limpio which before furnished me with  
so great a variety of plants we found it perfectly dry, a recent fire  
had swept over the whole country to the very summit of the mountains  
and I found only occasionally a plant worthy of notice. The same  
parching drought had extended to this place (Frontera near El Paso)  
and how much beyond I do not know. In the valley of the Rio Grande  
I found a very scant vegetation"

In Emory's Rep. Mex. Bound. Survey 1: (1857) there are illustrations of,-  
"Limpia - Wild Rose Pass" opposite pg 84  
"Site of Fort Davis, Limpia Mountains" pg 88. - Painted Camp

Re Wild Rose Pass see McVaugh, Wrightia 1: 207-213 (1948)

- 15
408. *Nyctaginas* <sup>*Mirabilis*</sup> Valley of the Limpio, thickets , June 11, 1851
409. Cucurbit. do. , alluvial soil
410. Juncus margin of the Limpio
411. " do.
412. " do.
413. Carex do.
414. Asclepias pebbly bed of the Limpio
415. Erigeron valley of the Limpio, rocky hills
416. Phaseolus do. do.
417. Castilleja do. do.
418. Cereus. Valley of the Limpio , section with fruit
419. Equisetum margin of the Limpio
420. Galium bed of the Limpio
421. " do.
422. Opuntia valley of the Limpio, alluvial soil
423. ----? summit of mountain, Wild Rose Pass, 2-5 ft. tall, June 12, 1851
424. ----? do. do. , 4010 ft. tall
425. grass Wild Rose Pass, sides of mountains
426. Agave Wild Rose Pass, common on mountain side, flowers only
427. Gaura Wild Rose Pass, valley of the Limpio
428. Compositae sides of hills, valley of Limpio
429. Malpighiac. valley of Limpio, rock-crevices on hillsides
430. ----? do. , up hillsides to summits
431. Rose valley of Limpio, forming large thickets near creek, 2-3 ft. tall
432. Quercus valley of Limpio, mountain-sides, spreading, 10-20 ft. tall.
433. Pentstemon valley of the Limpio, alluvial soil
434. Vitis valley of the Limpio, mountain-sides, climbing 8-10 ft.
435. Quercus valley of the Limpio, mountain-sides spreading, 10-15 ft.
436. Asclepias head of Limpio, prairie-dog towns, 1-2 ft. tall
437. Dalea do.

Jeff Davis County, along the Limpia in Davis Mts.

- 18
438. Galium bed of the Limpio June 12, 1851
439. Renunculus do.
440. Compositae margin of the Limpio, sandy soil
441. Salix bed of the Limpio
442. Urtica margin of the Limpio, much branched from root.
443. Compositae Head of Limpio, prairie-dog towns
444. Hoffmannseggia do. do.
445. Vesicaria do. do.
446. Phlox <sup>humana</sup> valley of the Limpio, alluvial soil
447. Oenothera hillsides of the Limpio , fl. expand about sunset
448. Leguminosae do.
449. Desmanthus do.
450. Polygala do.
451. ~~Nyctaginac.~~ <sup>Oxybaphus</sup> do.
452. Boraginaceae Valley of the Limpio at upper camp
453. Actinella do.
454. Clematis do.
455. Carex do.
456. Micromeria head of Limpio, hillsides
457. Delphinium valley of Limpio at upper camp. June 13, 1851
458. Linum do.
459. grassium do. , in small tufts
460. " do. do.
461. *Alpa tenuissima* do. , large dense tufts
462. " do. , small tufts
463. ~~Nyctaginac.~~ <sup>Oxybaphus</sup> do.
464. Ionidium do.
465. Scroph. or Bignon. mountain-side, head of Limpio, 2-3 ft. tall
466. grass do.
467. Leguminosae do.

Jeff Davis County

See notes for August 1849

Wright appears to have reached the head of the Limpia <sup>Painted Camp</sup> (Painted Camp) and camped there the night of June 12th. and remained there the 13th.

June 14 he went from Painted Camp to to Smiths Run

June 15 from Smiths Run to Rain Water Creek

June 16th from Rain Water Creek to Van Horne Wells

June 17th from Van Horne Wells to Eagle Springs.

June 18th or 19th he reached the Rio Grande.

- 17
468. grass bottom of Limpio at its head June 13, 1851
469. " do.
470. " do.
471. Asclepias summit of mountains at the head of the Limpio
472. grass bottom of the Limpio
473. " do.
474. Cerastium do.
475. Compositae crevices of basaltic rocks, mountains of the Limpio
476. Labiate do. do.
477. Eriogonum summit of mountains, head of the Limpio
478. Croton do.
479. Epilobium margin of Limpio at its head
480. Scirpus do.
481. Oxalis valley of the Limpio at its head, stony soil
482. Gaura Valley of the Limpio at its head
483. Galactia rocky mountain-side at head of Limpio
484. grass *Elonurus* do.
485. Pentstemon do.
- June 14, 1851
486. Compositae prairie-dog towns in valleys betw. Painted Camp & Smiths Run
487. Calliandra do.
488. Malvaceae do.
489. Chrysopsis valleys between Painted Camp and Smiths Run
490. Desmanthus mountain valleys Painted Camp to Smiths Run
491. Pentstemon do.
492. Portulaca do.
493. *Gutierrezia* do.
494. Physalis do.
495. *Antiarium* Liliaceae margin of dry mountain ravines
496. *Munora* (spell???) mountain valleys and sides
497. Rhamnaceae mountain valleys and sides

Th

During June 16th Wright probably crossed the Jeff Davis-Culberson county-line and camped that night at Van Horn Wells in Culberson Co.,  $9\frac{1}{2}$  miles due south of present Van Horn

The night of June 17th he was at Eagle Springs, in Hudspeth County, (about 8 miles from Van Horn Wells)

The party appears to have made the 30 odd miles from Eagle Springs to the Rio Grande on June 18th.

The party struck the Rio Grande <sup>6 mi below</sup> ~~near~~ the site of old Ft. Quitman which was opposite the present town of La Banderas in Mexico. This is about 80 miles down the Rio Grande from El Paso and is in Hudspeth County.

The collections of June 20th and following are almost certainly from present El Paso Co.



498. Galactia mountain-sides Smiths Run to Providence Cr. June 15, 1851
499. Abutilon do.
500. <sup>*Albunia ciliata*</sup> Nyctaginac. near Smiths Run in sandy alluvial soil
501. Compositae stony hills near Smiths Run
502. Sophora do.
503. Bolivaria do.
504. <sup>*Haulia congesta*</sup> Eutoca among rocks, banks of Providence Cr.
505. *Talinum paniculatum* do. , near T. sarmentosa, fl. yellow
506. Dichondra do.
507. Solidago summit of hills at RainWater Camp
508. Cassia valleys from RainWater Camp to Eagle Sprs. June 16, 1851
509. <sup>*Albunia incarnata, Boerhaavia erecta*</sup> Nyctaginac. do. , around prair.-dog holes
510. " do. do.
511. Compositae do. do.
512. Eriogonum <sup>*ebertianum*</sup> do. do.
513. Asclepias do. do.
514. Sphaeralcea <sup>*Sida lepidota type*</sup> do. do.   
 <sup>*dist. no. 884*</sup> fl. light yellow
515. Chrysopsis valleys from Deadman's Pass to the Wells.
516. Zygophyllac. do.
517. Verbena do.
518. Malvaceae do. , in prair.-dog towns
519. Cereus do.
520. Krameria do. , stony soils
521. Baileya do. , do.
522. Leguminosae do. , 4-8 ft. tall
523. Opuntia do.
524. Koeberlinia do. , 2-4 ft. tall, June 17, 1851
525. Nyctaginac. <sup>*Selinocarpus chen.*</sup> do. , alluvial soil
526. Ageratum at the Wells in alluvial soil
- ~~527. margin of the Wells~~

see preceding page

527. Scirpus margin of the Wells June 17, 1851
528. -----? at the Wells in rock-crevices
529. Malvaceae do.
530. Physalis at the Wells near the branch
531. Mammillaria at the Wells in alluvial soil
532. Dasylirion at the Wells on stony hills
533. Mentzelia valleys near Eagle Springs
534. Compositae do.
535. Mamillaria at the Wells in rock crevices
536. Euphorbia stony hills at Eagle Spring June 18, 1851
537. Greggia valley of the Rio Grande 80 miles below El Paso, June 19, 1851
538. Micromeria canyon leading to the Rio Grande
539. Opuntia sandy ridges on Rio Grande Valley 80 mi. below El Paso
540. Potentilla old bed of the Rio Grande 50 mi. below El Paso June 20, 1851
541. Nasturtium do.
542. Aster do.
543. Scirpus do.
544. *Echinochloa crusg.*  
Panicum do.
545. Coreopsis do.
546. Malvaceae low bottoms of Rio Grande 50 mi. below El Paso
547. Physalis do.
548. Veronica do.
549. Poa *Eragrostis pectinacea* do.
550. Cyperus do.
551. Eleocharis do.
552. Portulaca do.
553. Solanum do.
554. grass *Panicum blurii* do.
555. Leguminosae do.
556. Equisetum low bottom of the Rio Grande 60-80 mi. below El Paso

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side of the document. The text is arranged in several paragraphs and appears to be a formal document or report.]

557. Scirpus low bottom of the Rio Grande 60-80 mi. below El Paso June 20, 1851
558. Rumex *violaceus*. do.
559. *Salix nigra* do.
560. *Imperata Hookeri*  
grass ^ high bottom, 60-80 mi. below El Paso
561. " low bottom 60-80 mi. below El Paso June 21, 1851
562. Strombocarpus valley of the Rio Grande
563. Helianthus sandy ridges, R.G. Valley 40-50 mi. below El Paso
564. Hymenolobus do.
565. (Nyctaginac. *Alroica cyclophora*) do. , much branched  
from base and spreading.
566. Euphorbiaceae sandy ridges, R.G. Valley 40-50 mi. below El Paso
567. Verbena do. , prostrate, much branched from  
the ground
568. Baccharis margin of the Rio Grande below El Paso, 2-4 ft.
569. Chara in a subsaline & mineral pond below San Elisario June 23, 1851
570. Potamogeton *pectinatus* do.
571. ----- margin of a subsaline & mineral pond below S. Elisario
572. Baccharis Rio Grande bottom below El Paso, 2-4ft. June 24, 1851
573. Wislizenia do. , sandy soil, 1-2 ft. tall, much  
branched.
574. Compositae do.
575. Leguminosae do.
576. Malvaceae do.
577. *Phorodendron* do.
578. Populus Rio Grande bottom, almost the only timber, 20-30 ft. tall
579. Salix do , 4-8 ft. tall.

end of pt. 1 of 1851-52 lists.

THE UNIVERSITY OF CHICAGO  
LIBRARY

1911

1912

1913

1914

1915

UNIVERSITY OF CHICAGO





*Frontera lat. 31°48'  
approximate location*

*lat. 31°47'*

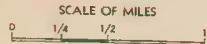
*to Harts Mill*

*Conoco  
Franklin*

*Mo...  
(Harts Mill)*

**EL PASO, TEXAS  
CIUDAD JUAREZ, MEXICO  
AND VICINITY**

1 in = 1 mi



COPYRIGHT BY  
The H.M. GOUSHA COMPANY  
CHICAGO, ILL. LITHOGRAPHED IN U.S.A.



List for 1851-52 - second part

1. *Cyclobama atropurpurea*  
~~Amaranthaceae~~ sandy bottom of Rio Grande at Frontera July, 4, 1851
2. Leguminosae margin of acequias at El Paso, introduced? July 5, 1851
3. *Transthema*  
Portulacaceae field at El Paso
4. grass do.
5. Malvaceae do.
6. Cuscuta do.
7. Leguminosae do. , introduced?
8. Ranunculus sandy bottoms of Rio Grande, stoloniferous
9. Heliotropium *Cuscutaceae* do.
10. Leguminosae bottoms of Rio Grande, much branched & spreading, 6-10 ft.
11. *Selix laudipes* margin of Rio Grande , 4-8 ft. high
12. *Potamogeton*  
~~Potamogeton~~ stagnant subsaline lake in Rio Grande bed at Frontera July, 9, 1851
13. Krameria Rio Grande valley at Frontera, sandhills, 2-3 ft. tall,  
much branched & spreading, forming thick bunches 2-3ft.  
broad
14. Juncus Rio Grande bottom at Frontera July 18, 1851
15. Actinella do. , much branched from root
16. Juncus do.
17. Potentilla do. , on sand-bars
18. Aster! do. do.
19. Gnaphalium do. do.
20. Scirpus do.
21. *Tidestromia*  
~~-----?~~ sides of mountain at Frontera July 19, 1851
22. Asclepias do.
23. -----? do. , 2-4 ft. tall with short stout  
divaricate branches
24. *Atriplex canescens*  
Chenopod. hills near Frontera, 3-4 ft. high, branching widely
25. fern rock-crevices, mountain near Frontera
26. Rosaceae mountain-side near Frontera, 2-4 ft. much branching
27. Phorodendron do. , on small scrubby oaks.

Frontera (or Whites Ranch) is on the Texas side of the Rio Grande, between El Paso and Canutillo, and probably at the bend in the Rio Grande where that river turns SE. towards El Paso after having flown generally due south for most of the distance in which it is the boundary between Texas and New Mexico. Bartlett, 1:194, states that it was used as an astronomical observatory by the Boundary Commission. "Soon after we gave it up it was destroyed by the Apaches" The town or settlement no longer exists. It was obviously near the north end of the narrows of the Rio Grande in which the river cuts thru the hills northwest of El Paso For Bartlett, 1:198-9, states that, -"The bottom land does not appear for some distance beyond the observatory, or White's Ranch" Bartlett says, l.c. 194, says that Frontera is 8 miles above Hart's mill (at the falls of the Rio Grande) just north of the American settlement at El Paso. It is in El Paso County, Texas

actually really just 4-5 mi?

"the Cottonwoods" mentioned by Wright July 26th. seems to refer to no town. It was probably given in reference to their camp among the cottonwoods, on the Rio Grande bottoms. It is probably about half way between El Paso and Las Cruces, in Dona Ana County, N.M. = 13 3/4 mi = 8 Ft. Fillmore 10 1/4 mi north of Canutillo is near Berino N.M.

Dona Ana was an old Mexican town, because of border incidents it was becoming depopulated in Wright's time, and now is of very minor importance. Bartlett, 1: 200, says it is 8 miles (north) from Las Cruces. Standley, C.U.S. Nat. Herb. 13:155, says it is 1-2 miles east of the Rio Grande in Dona Ana County, New Mexico.

Frontera lat  $31^{\circ} 48' 45''$  vide Emory Rep. Mex Bound. 1:193 (1857)

This is 1.75' north of  $31^{\circ} 47'$ , the lat. of Mex boundary west of Rio Grande or almost about 2 miles north of boundary line!

It was probably located near the Santa Fe tracks (4 Highway A11. 30), ca 5 miles NW, as crow flies, from the down-town plaza in El Paso a mile and a half NW of the Cement Plant Reservoir, probably near the Bench Mark is located on the "Canutillo" sheet of the US Topographic Maps.

see map facing previous page

There is an engraving of "The Rio Grande near Frontera" in Emory's Rep. Mex. Bound. Survey 1: facing pg. 46 (1857)

For map of El Paso area in 1878 see Annual Report of Wheeler's Surveys 1879, opposite pg. 81 also text 47-48

28. ----? bottom of RioGrande above Frontera, subsaline soil, July 26, 1851
29. Compositae do. do. , many annual stems from the perennial root.
30. Wislizenia Rio Grande valley above Frontera, sandy soil, much branching divericately from ground 2-3 ft. tall
31. Euphorbia Rio Grande valley above Frontera, sandy soil
32. Helianthus do. do. , 2-3 ft. tall
33. Cyperus sandy banks of the RioGrande at the Cottonwoods
34. Gnaphalium do.
35. Palafoxia do.
36. Boraginaceae do.
37. Scrophulariac. do.
38. Cnicus valley of the Rio Grande below Dona Ana, sandy soil, July 28, 1851
39. <sup>*Atriplex repens*</sup> Chenopod. sand bars in Rio Grande below Dona Ana
40. Compositae do.
41. ----? do. , 1 ft. tall, branching divericately much ^
42. Scirpus margin of RioGrande below Dona Ana
43. Eleocharis banks of RioGrande below Dona Ana
44. Hymenolobus valley of RioGrande below Dona Ana, sandy soil
45. <sup>*Allenrolfea*</sup> Salicornia do. , 3-6ft. tall, much branching
46. fungus Rio Grande valley below Dona Ana, sandy soil
47. Hoffmannseggia do. , stiff black soil
48. ---- Rio Grande valley at Dona Ana, sandy banks of acequias
49. <sup>*Cycloboma atriplicifolia*</sup> ~~Nyctaginac.~~ do. , sandy soil
50. <sup>*Alroica cyclopleta*</sup> Oenothera at Dona Ana, sandy soil, procumbent, divericately much branched ^ from root
51. Asclepias at Dona Ana, climbing 2-4 ft. on shrubs
52. Hymenatherum do. , in sandy soil and in fields
53. Portulaca retusa do. do. fl. small yellow , petals slightly emarginate or matutine
54. Datura do. do. , fl pale purple, nocturnal ^
55. Baileya do. do. , much branched from near root
56. do. do. , climbing over bushes 2-3ft.

Fraser (C. Wright in letter to Tary, June 28, 1851)

"Fraser is a single adobe house some 200 ft. by 100 ft. in dimensions, including the court or open enclosure, so common, I may say universal in oriental architecture. It is situated about 8 miles above El Paso, belongs to a Mr. White, and is rented by the Boundary Commission as a kind of camp, storehouse, observatory, etc."

July 28, 1851

57. Galardia at Dona Ana in fields
58. Portulaca do. , sandy soil
59. Euphorbia do.
60. ~~Alternanthera~~ <sup>Fidestromia</sup> do.
61. Euphorbia do.
62. ~~Eutoca~~ <sup>Phacelia</sup> at Dona Ana on sandhills in Rio Grande bottom
63. Chrysopsis do.
64. Marshallia do.
65. Portulaca fields at Dona Ana
66. Euphorbia do.
67. Martynia sandy soil at Dona Ana, branching near ground & spreading July 28, 1851  
1-2 ft. wide & 6-15 in. high, fl. white with light red border
69. ~~Anemopsis~~ Rio Grande bottom above Dona Ana, large patches on subsaline soil,
68. Galactia San Diego at crossing of river above Dona Ana, July 29, 1851  
July 29, 1851, stony hillsides,
70. Petalostemon Rio Grande bottom above Dona Ana, sandy soil
71. grass do. , subsaline soil
72. Scrophulariac. sand-hills of Rio Grande above Dona Ana, much branching
73. Hymenolobus do.
74. ----- do. do.
75. Eriogonum <sup>arvum</sup> sandy ridges of Rio Grande bottom above Dona Ana
76. Compositae do.
79. Glycirrhiza low bottoms of Rio Grande above Dona Ana, abundant
80. Compositae do.
81. Labiate do.
77. Eriogonum <sup>rotundifolia</sup> valley of Rio Grande on stony ridges
78. Compositae do.
82. Martynia near Santa Barbara, loose sandy soil, fl. large yellow July 30, 1851.
83. Nyctaginac. do. do. , much branched from root
84. Scutellaria stony hills, Santa Barbara to Coppermines, branching from root
85. Sida do. do.
86. Sidalcea do. do.

*almost certainly near present town of Hatch!  
San Diego crossing probably near old Ft. Selden!*

Santa Barbara Standley, C.U.S. Nat. Herb. 13:167, says "A Mexican settlement on the Rio Grande about 25 miles north of Las Cruces, visited by Wright" and on his map shows it about 6 mi. NW of Ft. Selden (Radium Springs). Dona Ana County, New Mexico. )??

*incorrect*

*see foot of page*

Bartlett, who travelled the route which Wright later took from El Paso to the Coppermines, gives the following regarding Santa Barbara. He left Dona Ana the AM of Apr. 27th "We continued ~~continued~~ on our course towards the north, and soon struck the great Jornada del Muerto, on the Santa Fe road, which we followed for 9 miles, when we turned off to San Diego, the old fording place" They crossed the Rio Grande and camped 8 miles up on the west side, having made a total of 26 miles during the day. Starting early, they continued northward along the river bottom 15 miles to a "new settlement on the river's bank, called Santa Barbara". The next watering place being 20 miles distant, at Mule Sprs., they camped.

*next day*

Judging from Wright's list, his party probably travelled from Dona Ana to San Diego crossing of the Rio Grande on the 28th and arrived at Santa Barbara on the 29th.

Bartlett, reached Mule Springs on the afternoon of Apr. 29th., having followed a course, south of west, first a couple of miles up river then over and thru a range of hills to Mule Springs at their western base, a total distance of about 23 miles. On the 30th Bartlett *going south* reached Cooke's Springs 12 miles from Mule Spr. at midday and then swung NW to the bed of the Mimbres about 20 miles beyond.

Wright appears to have camped at Cooke's Spring the night of July 31st. This locality, near old Ft. Cummings, is 15 miles north and a bit east of Deming, and is in northern Luna County, New Mexico

~~Mule Springs must be east of Cooke Spring and near the Luna-Dona Ana county-line, but probably within Luna Co.~~

The route travelled by Wright went NW from Cooke Springs and hit the Mimbres River near the present Luna-Grant county-line. Wright's collections of August 1st are probably all from Grant County

Note Bartlett's itinary and map show Santa Barbara to be much further north than is given by Standley, in fact in extreme NW corner of Dona Ana County above Hatch (ca. 30 mi. NW. of Ft. Selden). This would place Mule Springs about the SW corner of Sierra County.

*Dona Ana Co  
N.M.*

*Santa Barbara = Old Fort Thorn about 5 miles up river from Hatch  
San Diego is about 10 miles up river from Fort Selden*

- July 30, 1851
87. Polygala stony hills between Santa Barbara and the Coppermines
88. Hedyotis do. , H. humifusa, densely matted
89. Nyctaginac. *Selinocarpus chin.* do.
90. grass *Arctida* do. , dense bunches
91. Eriogonum *abertian* do.
- July 31, 1851
92. Gaura prairies from Santa Barbara to Coppermines
93. Malvaceae do.
94. Sophora valley at Mule Creek
95. Oenothera do. , margin of dry creek bed
96. Engelmannia do.
97. Geranium do.
98. Bolivaria do.
99. Eriogonum valley near Cook's Spring
100. Cucurbit. on rocky ridges at Cook's Spring
101. Compositae prairies at Cook's Spring
102. grass margin of water at Cook's Spring
- August 1, 1851
103. Quercus hillsides near Cook's Springs, 4-10 ft. tall, much branched
104. Pentstemon do.
105. Baileya sandy valleys of Mimbres Mts.
106. Compositae
107. Malvaceae } of these is cotype with 514 [1851] of S. lepidota  
 although Gray gives July
108. " } , in low ground
109. " bottom of the Mimbres
110. " do.
111. Labiate do.
112. Glycyrrhiza do. , abundant
113. Veronica growing in water of the Mimbres
114. Ranunculus do.
115. Potamogeton do.
116. " do.

Santa Barbara  
 July 30, 1851

Grant County, New Mexico

The Coppermines are in Grant County, N.M. and are about 13 miles east of Silver City. They are near the present town of Santa Rita. The full name of the mining district is Santa Rita del Cobre. In some of his later collections Wright refers to the locality as ,-Cobre

Bartlett, 2:568, says "Fort Webster was established at the Copper Mines, or Santa Rita del Cobre, after they were abandoned by the Boundary Commission in October, 1851"



- 117. ----- growing in water in Mimbres August 1, 1851
- 118. chera do.
- 119. Mimulus margin of the Mimbres
- 120. Umbelliferae do.
- 121. Ranunculus do.
- 122. Verbena in low valley of the Mimbres
- 123. Humulus low bottom of the Mimbres, climbing over bushes
- 124. Cuscuta do. , on weeds and willows
- 125. grass margin of the Mimbres
- 126. Desmanthus prairies from the Mimbres to the Coppermines, Aug. 2, 1851
- 127. Gaillardia do.
- 128. " do.
- 129. Physalis do.
- 130. Galactia? or Phaseolus? sandy stream-sides, Mimbres to Coppermines,  
root tuberous or fusiform, very large & penetrating deeply
- 131. Hoffmannseggia prairies from Mimbres to Coppermines
- 132. Pentstemon pebbly creek-beds, Mimbres to the Coppermines
- 133. Streptanthus do. do.
- 134. Erysimum do. do.
- 135. Fraxinus do. do. , 10-20 ft. high
- 136. Juniperus hillsides , do. , do.
- 137. Quercus along streams & hillsides, do., , 10-15 ft. high
- 138. ----- low ground along streams, do.
- 139. Lepidium valley of Coppermine Creek, sandy soil
- 140. Loranthaceae hills of Coppermine Cr. , on cedar
- 141. Eriogonum valley of Coppermine Creek
- 142. Compositae do.
- 143. Pentstemon do.
- 144. Gaillardia do. , sandy soil
- 145. Gaura do.

Grant County, New Mexico

In his letter to Gray dated, Nov. 30, 1851, Wright states, - "In July I went to the Coppermines and besides collecting on the way, secured every thing about the mines within a moderate distance (for it was dangerous to venture far on account of the Indians) among which you will find I hope some new and interesting things"

146. Galactia valley of Coppermine Creek, climbing low bushes, August 2, 1851  
root penetrating very deeply, enlarged or tubercous
147. Cooperia valley of Coppermine Cr., sandy soil, fl. yellow
148. cruciferae do.
149. Ranunculus hillsides of Coppermine Creek.
150. *Mirabilis longicaule*  
Nyctaginac. valley of Coppermine Cr., much branched from root, Aug. 4, 1851  
2ft. tall
151. Thalictrum hillsides of Coppermine Creek, 2-4 ft. tall
152. Cercocarpus do. , 6-8 ft. tall
153. Garrya do. , 2-5 ft. tall
154. Juglens do. , stream-margin, 10-15 ft. tall
155. Salvia do.
156. Umbelliferae do.
157. Geranium do.
158. Clematis do. , on bushes, climbing 6-8 ft.
159. Boraginaceae
160. Pinus edulis hillsides at Coppermines, small tree
161. Calliandra stony hills at Coppermines , stamens pale red
162. Eriogonum do.
163. Quercus do. , shrub or small tree, Aug. 5, 1851
164. *anthemoidium*  
Liliaceae do.
165. Quercus do. , do.
166. Euphorbiaceae do.
167. Leguminosae do.
168. " do.
169. Oxalis do. , fl. purple
170. Calliandra do. , filaments pink
171. *Mirabilis multiflora*  
Nyctaginac. do.
172. Pinus do. , tree 10-20 ft. tall
173. Boraginaceae do.
174. Delphinium do.
175. Verbena do.

Grant County, New Mexico

176. Compositae stony hills at the Coppermines August 5, 1851
177. Oxalis do.
178. Silene do.
- 179 Rubus mountain-sides at Coppermines August 6, 1851
180. Acacia stony hills at the Coppermines
181. Stellaria mountain sides at the Coppermines
182. / *Callionys incarnata*  
Nyctaginac. stony hills at the Coppermines
183. Portulacaceae do. , fl. deep orange-yellow
184. " do. , fl. light yellow
185. Talinum do.
186. Galium do.
187. Heuchera mountain-sides at the Coppermines
188. Solidago do.
189. Carex do.
190. Eutoca *Thalictrum congestum* do.
191. Philadelphus do. , much branched, 2-5 ft. tall
192. Portulaca
193. Cruciferae mountain-tops at the Coppermines
194. " do. , fl. light purple, much branched, 2-5 ft.
195. Malvastrum stony hills at the Coppermines, fl deep orange
196. Asclepias do.
197. Erigeron do.
198. *Quercus hypoleuca Eng*  
Quercus sides & summits of mountains at the Coppermines
199. Erigeron do.
200. *Asplenium coccineum*  
Nyctaginac. do. August 8, 1851
- 201/ Salvia sides of mts. at the Coppermines
202. Symphoricarpus do. , 3-4 ft. tall, much branched
203. Ribes do. , 3-5 ft. tall
204. Prunus do. do.
205. Pinus do. , 50-80 ft. tall, 10-24 in. diameter

Grant County, New Mexico

- 8  
Aug. 8, 1851
206. Fraxinus sides of mts. at the Coppermines, small tree, 10-20 ft. tall
207. Spiraea do. , slightly branched slender bush ^ 6-10 ft. tall
208. Heuchera do. , among rocks
209. fern *Woodsea Plummea* do. , rock crevices
210. " do. do.
211. " Do. do.
212. " do. do.
213. " hillsides at the Coppermines, rock-crevices
214. Hepaticae under wet rocks on mountain side near Coppermines
215. Muci do.
216. " do.
217. " do.
218. Cyperaceae do.
219. *Arenaria saxosa* Gray (f. no. 865) Caryophyllaceae stony hills at the Coppermines August 11, 1851
220. Actinella do.
221. Monarda valleys at the Coppermines
222. Cruciferae do.
223. Leguminosae stony hillsides at the Coppermines, prostrate or climbing on bushes, root very long fusiform subligneous
224. Dichondra stony hillsides at Coppermines, among fallen leaves under trees
225. Compositae valley at Coppermines , much branched from root
226. Boraginaceae do.
227. Lepidium stony hills at Coppermines
228. Eriogonum *abertianum* do. , August 12, 1851
229. *Guilleminia* (Amaranthaceae) do.
230. Mimosa do.
231. Lathyrus do.
232. Physalis do. Aug. 11, 1851 ?
233. grass mountain-sides at Coppermines 2?
234. " margin of mountain-torrents near the Coppermines Aug. 13, 1851  
*Panicum pampinosum*

Grant County, New Mexico



235. } grass top & sides of mountains at Coppermines Aug. 13, 1851  
 } *Muhlenbergia* *Emerald*  
 236. " do.  
 237. " *Avenula* do.  
 238. " *Eragrostis* do.  
 239. *Muhlenbergia* do.  
 240. *Panicum* *balbosum* sides of torrents near the Coppermines  
 241. " on mountains near the Coppermines  
 242. " in ravines near the Coppermines  
 243. *Piptochaerium* on mountains near the Coppermines  
 244. *Muhlenbergia* in ravines near the Coppermines  
 245. " do.  
 246. *Helianthus* summit of mountains near the Coppermines  
 247. *Cyperus* do. , in beds of declivities.  
 248. *Allium* summits & sides of mountains near Coppermines  
 249. (omitted)  
 250. *Malvaceae* do.  
 251. *Salvia* sides of mountains near Coppermines  
 252. *Polygonum* sides of mountain-torrents near Coppermines  
 253. *Pentstemon* mountain-sides near Coppermines  
 254. *Acalypha* in detritus at sides of mountain torrents near Coppermines  
 255. *Caryophyllaceae* do.  
 256. " do.  
 257. *Euphorbia* do.  
 258. *Cyperus* do.  
 259. " do.  
 260. *Commelyna* stony hills at the Coppermines August 15, 1851  
 261. *Hosackia* do.  
 262. grass *Piptochaerium* do.  
 263. *Compositae* do.  
 264. *Hymenopappus* do.

Grant County, New Mexico

August 15, 1851

265. Phaseolus stony hills at the Coppermines, prostrate, root very large  
over 2 ft. long 5 in. thick at the crown subligneous astrigent
266. ~~grass~~ <sup>Scorobolus</sup> stony hills at the Coppermines
267. Phlox <sup>wana</sup> valley of Coppermine Creek August 18, 1851
268. Caryophyllaceae stony hills near the Coppermines
269. Gilia <sup>arguta</sup> valley of Coppermine Creek
270. Convolvulus hills of Coppermine Creek, edge of thickets
271. Cucurbit. do. , climbing bushes
272. Salvia stony hills of Coppermine Creek
273. Bidens do.
274. Hymenatherum do.
275. ~~Nyctaginac.~~ <sup>Lycopodium</sup> do.
276. Convolvulus do. , edge of thickets
277. " do. , do.
278. Desmodium do.
279. Physalis do.
280. Lathyrus do.
281. <sup>Scrophularia coccinea Gray Type</sup> Scrophulariaceae mts. at the Coppermines, near their summit at base of rocky ledge
282. Cruciferae near summit of mts. at the Coppermines
283. Solanum do. , fl. purple
284. " do. , fl. white  
, & abundant in valleys, ^
285. Nicotianae mts. at the Coppermines, base to summit, fl. purple
286. Hymenatherum do. , summits & sides, fl. radiate or rayless
287. grass <sup>Lycurus</sup> do. , near the summit
288. " <sup>Eragrostis</sup> do. do.
289. <sup>Drosera</sup> do. do.
290. " do. do.
291. Erigeron do. do.
292. Desmodium do. , branching from root, branches procumbent
293. grass <sup>Setaria (no 2999)</sup> do. , near summit in dense bunches

Grant County, New Mexico

294. *Micromeria* near summit of mountains at Coppermines August 18, 1851
295. Malvaceae sides or mts. & valleys at the Coppermines
296. *Petalostemon* do.
297. *Gratiola* margin of mountain-torrents at Coppermines
298. *Euphorbia* stony hills at the Coppermines, August 19, 1851
299. *Sanvitalia* do. , and in valleys
300. *Convolvulus* do.
301. " do.
302. grass do.
303. *Phaseolus* do.
304. *Gilia Maccombsii* do. , procumbent, branching from root
305. *Euphorbia* on stony hills near the Coppermines Aug. 20, 1851
306. *Astragalus* pebbly bed of stream near Coppermines and on pine hills, prostrate and much branched
307. *Hymenatherum* stony hills near the Coppermines
308. *Euphorbia* do. (with no. 305)
309. " do. do.
310. *Portulaca* do. do.
311. *Eutoca* *Paesia neoreana* do.
312. *Cucurbit.* do. , climbing on bushes
313. *Nyctaginac.* *Mirabilis multiflora* do. , large bunches, much branched
314. *Oxybaphus nyctag. v. pilosa* do. do.
315. *Aster* do.
316. *Oenothera* creek-margin at Coppermines, 2-3 ft. tall, fl opening in morning
317. " stony hills near Coppermines, fl. open in morning, withering early
318. *Allium* do. , fl. nodding, light purple
319. *Euphorbia* do.
320. " valley of creek ~~near~~ Coppermines, alluvial soil, Aug. 22, 1851
321. *Cyperus* on pine-hills near the Coppermines
322. *Oenothera* in valleys near the Coppermines (~~equals 322?~~)
323. *Castilleja* bed of creek near the Coppermines

Grant County, New Mexico

- August 22, 1851
324. Oenothera sandy bed of creek near the Coppermines, (equals 322?)
325. Polemoniaceae do.
326. Euphorbia pine hills near the Coppermines
- August 23, 1851
327. Cyperus hills near the Coppermines (equals 321?), damp places
328. cruciferae mountains near the Coppermines
329. *Oxybaphus* Nyctaginac. hills near the Coppermines, in AM. fl open till 9-10 o'clock
330. *Oxybaphus* do. do.
331. Cyperus do. , in damp places.
332. Leguminosae do.
333. Caryophyllac. mountain-sides near the Coppermines
334. Sanvitalia do. , under overhanging rocks
335. Heuchera rock-crevices in mts. near the Coppermines
336. Silene do.
337. Polygala mountain-sides near the Coppermines
338. Compositae do.
339. grass hills near the Coppermines
340. Scrophulariac. do. , very abundant, Aug. 26, 1851
341. Caryophyllac. do. do.
342. Cassia do. do.
343. Euphorbia do.
344. Molluga do. August 27, 1851
345. grass *Sporobolus* do. , very abundant
346. Poa *Eragrostis mexicana* do.
347. Erigeron do. , common
348. Artemisia do. , and in valleys, common.
349. Eriogonum do. , very growing thickly in small patches
350. " do. , in small compact bunches
351. Solidago do.
352. Galactia do.
353. Solidago do.

Grant & Luna counties, New Mexico

at noon on Aug 27th Commissioner Bartlett's party, accompanied with that of Lieut. Col. Graham (which included Wright), left the Coppermines. They made towards 10 miles the first day.

On the 28th. they stopped an hour at Pacheteju for water and camped at Ojo de Vaca that night. Pacheteju is evidently "Apache de hoo" of Wright, and Bartlett, 1:242, says it is the first watering place out of the Coppermines (a depression in plains which in addition to springs received the water after rains). It is 13 miles to the Mines, acc. to Bartlett. It is now called Apache Tejo, and is  $3\frac{1}{2}$  mi. due north from Whitewater, Grant Co.

Ojo de Vaca is 19 miles from Pacheteju, acc. to Bartlett, l.c., who says it is only a depression in the plain surrounded by a couple of acres of grass, and resembles an oasis in the desert. It is south and somewhat west of Whitewater near the Grant-Luna county-line, 6-7 mi. south of the extreme NW. corner of Luna County. It is now called Cow Springs. This was an important point in travel in southern New Mexico. From Ojo de Vaca roads went north to the Coppermines, west into Arizona, southwest to Guadalupe Pass, and south to Janos in Mexico.

From Ojo de Vaca the road went due west across the open plain to a spur of the Burro Mts. "12 mi. brought us to this mountain, when the Mexican lancer said that by turning up a canyon or defile to the northward, we should find an excellent spring of water, and that none would be met with again for about 40 miles. We accordingly left the trail and followed him. In a short time we entered a narrow and picturesque defile thickly wooded with scrub-oaks. This we followed about 5 mi., when it opened upon a beautiful grassy meadow about 300 yards wide, in which were many fine springs. Here we encamped [the night of Aug 29th]..." Bartlett 1: 361-2. This camp is Ojo de Gavilan. It is probably just within Grant Co., at the south end of the Burro Mts, ca. 10 mi. S.N.E. of Lordsburg, near the Grant-Hidalgo county-line

Note Concerning this expedition to Santa Cruz, Sonora, Bartlett, 1:355-405, has the most detailed account. Graham, 27-47, is briefer and less helpful. Graham give a daily record for the trip out to Santa Cruz, but dismisses the return trip in a few lines. It should be noted that Thurber, was the botanist connected with Bartlett;



- 13
354. *Gomphrena viridis*  
Amaranthaceae hills near the Coppermines August 27, 1851
355. *Boerhaavia purpurascens*  
Nyctaginac. do.
356. Phaseolus do.
357. Verbena do. , around thickets. Aug. 28, 1851
358. Lobelia marshy margin of Apache de hoo and elsewhere, not rare ^
359. Astragalus at Ojo de Vaca
360. Orobanchaceae do. , parasite on grass-roots Aug. 29, 1851
361. Rhamnus at Ojo de Gavilan (hawk spr.) branching 4-6 ft. high
362. Portulaca near Ojo de Gavilan, fl. ochreous-yellow
363. *Kallstromia grandiflora* do. , in valley below
364. Portulaca do. do.
365. Nyctaginac. *Boerhaavia creola* do. do.
366. Euphorbiaceae do. , in branches descending from the hills
367. Compositae do. do.
368. grass do. do.
369. " *Bartelone* do. , on grassy hills
370. Compositae do. do.
371. Cuscuta do. , in the valley below
372. grass do. , on rocky hills August 30, 1851
373. " do. do.
374. " *Helaria* do. do.
375. *Fragus* do. do.
376. " do. do.
377. Dieteria do. do.
378. *Eragrostis mexicana*  
grass do. do.
379. Hymenatherum do. do.
380. Quercus summit of mountains west of Ojo de Gavilan
381. *Eragrostis mex.*  
Poa do.
382. " *Eragrostis* do.

Hidalgo County, New Mexico & Cochise County, Arizona

After leaving Ojo de Gavilan the morning of Aug. 30th. the "course was west to the southern [northern] point of a short mountain range" This might be the range of mountains extending south from Lordsburg but if so then the party must have skirted their north-end! "The country was quite rough and intersected with deep gulleys. On passing this mountain (the range above mentioned) we descended by an easy and gradual slope to a vast plain, uninterrupted by hills, and bounded on the west by a high range of mountains about 25 miles distant. North and south there were no mountains to obstruct the view. Our guide here pointed out to us El Peloncillo, or Sugar Leaf, a mountain of this form in the high range alluded to, with an opening near it, where he said General Conde was encamped. He told us we should find no water until we reached there, which it seemed impossible to do before dark" Bartlett 1:363-4. A storm in the afternoon slowed up travel and the party camped on the plain that night, having travelled almost all day in Hidalgo County, New Mexico.

August 31st. the party moved to a watering place at the foot of El Peloncillo where General Conde, the Mexican Commissioner, was to have met them. This is Condes Camp, of Wright's list, and it ~~is~~ <sup>is</sup> ~~about~~ <sup>about</sup> 6 miles ~~north~~ <sup>from</sup> Steins, in extreme middle-western Hidalgo County, N.M., close to the Arizona-New Mexico line. The party remained here in camp during Sept. 1st.

September 2nd, the party passed into Arizona, <sup>at Stein Pass and southward</sup> travelled <sup>(south) up the</sup> ~~ed~~ <sup>ed</sup> San Simon Valley to Sauz de Cienega (Willow Marsh, El Sauce, or Saucera de la Cienega). This seemed "to be the basin where the waters collected from the adjoining mountains and slopes. Here was a great abundance of water, which, from the rushes that grew on its margin, I suppose to be permanent. Grass was also plenty here", Bartlett 1:371. <sup>crossed</sup> This watering place is San Simon Cienega on the the Arizona-New Mexican line 10-12 mi. south of the S.P.R.R. The party probably camped at the north end which is a mile or so within Arizona. Cf. Water Supply Paper 425A.

September 3rd. generally westerly over low, flat, boggy ground intersected by ravines and small running streams. Going very difficult and slow; only 12 miles made. Had to camp on plains a few miles from mountains; no water. ~~Probably~~ <sup>At</sup> ~~northeast~~ <sup>At</sup> ~~foot~~ <sup>northeast</sup> of Chiricahua Mts.

September 4th "continued our journey along the base of mts. (northerly); the road still heavy, with frequent arroyos.... As we drew near to the mts. we discovered water gushing from their sides. We therefore haulted.... At 1 o'clock we turned short to left and entered a narrow defile with perpendicular sides, and soon found ourselves in a beautiful amphitheater among mts." Here they camped in what is apparently <sup>the east ascent to</sup> Apache Pass, betw. the Dos Cabezos and Chiricahua mountains, still in Cochise County, Arizona.



Cochise County, Arizona

September 5th, after a night in what is probably the east ascent to Apache Pass, they proceeded westward over the mts. "we moved forward. and found the mts. more difficult to pass than any we had encountered before, consisting as they did of continuous hills, which required much care on the part of the teamsters; yet, with locking the wheels 2 or 3 times, and a little assistance by hand, we soon got thru. The length of the pass, with all the sinuosities of our route, did not exceed 3 miles. On emerging from the opposite side a broad plain again opened to our view as before, with a range of mts. bordering its western side, about 35 mi. distant, and running parallel to those we has just left. ... A dry lake appeared about midway in the plain" Bartlett 1: 373-4. The moved west across the plain and camped south of Wilcox Playa, in central Cochise County, Arizona.

Remained at camp south of Wixcox Playa the nights of Sept. 5, 6 & 7.

Note. Bartlett gives the latitude & Longitude of several camps which he states were determined by Lieut. Whipple, one of the party.

These seem to be several minutes off, judging from modern maps.

Camp of Aug. 31st at base of Piloncillo (Condes Camp)	lat. $32^{\circ}20'21''$ ; long. $109^{\circ}01'$ <sup>+4</sup>
Camp of Sept. 2nd., Sauz de Cienega	lat. $32^{\circ}05'09''$ ; long. $109^{\circ}02'06''$
Camp. of Sept. 3rd., San Simion Valley	lat. $32^{\circ}08'33''$ ; long. $109^{\circ}11'32''$
Camp. of Sept, 4th 'Chiricahui Mts', i.e. Apache Pass	lat. $32^{\circ}08'43''$ ; long. $109^{\circ}24'33''$ <sup>-2</sup>
Camp. of 5-7th., south of Wilcox Playa	lat. $32^{\circ}02'38''$ ; long. $109^{\circ}48'54''$ <sup>+2</sup>
Camp. of Sept. 8-9, San Pedro near Benson	lat. $31^{\circ}54'31''$ ; long. $110^{\circ}11'41''$ <sup>-2-4</sup>

Roughly estimating from these figures on the basis that one minute equal one mile we get the the following directions & distances travelled each day, -

Sept. 2nd.	15 mi. S & $1\frac{1}{2}$ mi. W.	to Sauz Cienega
Sept. 3rd.	3 mi. N & 8 mi. W.	to near mts.
Sept. 4th.	a bit N. & 13 mi. W.	to Apache Pass
Sept. 5th.	6 mi. S & 24 mi. W.	to Wilcox Playa
Sept. 8th.	8 mi. S. & 22 mi. W.	to San Pedro River

- 15
412. Labiatae side of Chiricahui Mts., many stems from root, Sept. 4, 1851
413. Nicotiana do.
414. Onograceae bed of a mountain torrent among pebbles, many stems from one root
415. Compositae sides of Chiricahui Mts.
416. Leguminosae do.
417. ) Nyctaginac. do. September 5, 1851
418. ) *Boerhaavia erecta* do.
418. ) " do.
419. Gilia do.
420. Compositae Pass of the Chiricahui Mts, much branching near the ground
421. Petalostemon do.
422. Mentzelia do.
423. Crotonaria do. , in valleys
424. Asclepiad. Valley west of Chiricahui Mts., climbing on plants, entangled
425. Martynia do. , sandy soil
426. Cleomella low saline valley west of Chiricahui Mts Sept. 6, 1851  
much branched near the ground
427. Cleoma low saline valley west of Chiricahui Mts.
- 428 Dieteria do. , in sandy soil
429. Compositae do.
430. *Atriplex barata* Moq. do. , on sandy ridges
430. Chenopod. do.
431. Cyperus damp soil along branch west of Chiricahui Mts
432. *Sparganium* valley west of Chiricahui Mts on sandy ridges
432. grass
433. Baileya do.
434. Cassia do.
435. grass do.
436. Dieteria do.
437. Wislezenia do.
438. grass do.
439. Franseria do.
440. Dieteria do.

Cochise County, Arizona

Sept. 8th. party moved west to the east bank of the San Pedro River. The route followed is almost certainly that of the present highway between Cochise and Benson and passes thru the pass in the Dragoon Mts. Their camp was very near the present site of Benson, Cochise County, Arizona.

The party remained on the San Pedro River, near the site of Benson, thru the 9th and 10th.

440. Dieteria valley west of Chiricahui Mts , subsaline soil Sept. 8, 1851
441. Chrysopsis do.
442. Cryptantha albida do. , sandy soil
443. Lepidium do. do.
444. (*Allium incarnata*  
Nyctaginac. do. do.
445. Euphorbia do. do.
446. Aristolochia do. do.
447. Phaseolus do. do.
448. Euphorbiaceae do. do.
449. grass *Eriochloa* valley descending to the San Pedro, sandy soil
450. " *Cottia* do. do.
451. Chrysopsis do. do.
452. Leguminosae bed of creek descending to the San Pedro, among pebbles and coarse sand, fl. purple
453. Euphorbia bed of creek descending to San Pedro River
454. Petalostemon valley of a creek descending to San Pedro River, fl. white, sandy soil
455. Evolvulus do.
456. Convolvulus do. , fl. purple  
sandy soil
457. Helianthus do. , sandy soil
458. Malvaceae do. , sandy soil, fl. blue
459. Desmodium do. , sandy soil, fl. purple
- 460 to 468 ("omitted by mistake")
469. Tragiopsis do. , among pebbles, fl. purplish
470. Condalia side of canyon descending to the San Pedro, fl. green-yellow  
much branching 4-6 ft. tall
471. Leguminosae side of canyon descending to San Pedro, fl. purple  
climbing on bushes
472. Oenothera On steep banks of San Pedro, much branching, fl. purple
473. Ribes on the banks of the San Pedro, sparingly branched, 2-5 ft. Sept. 9, 1851
474. Aster banks of the San Pedro

Cochise County, Arizona

On Sept. 10th Bartlett started for Santa Cruz, Sonora, and on the Sept. 11th Graham's party (with Wright) set out following Bartlett's track. The route led south on the west side of the San Pedro River. "Our course continued due south thru thick mesquite chaparral, --, After marching about 18 mi. the trail turned abruptly to the west, along the base of some high detached hills; these we followed about 5 miles and camped near a water hole" Bartlett 1: 381-2. Graham following this route made only 10 miles of it on the 11th. of Sept. *on Sept 10th*

Sept. 12th. Graham made scarcely 18 miles generally south. This would place them in the San Pedro Valley a bit southwest of Fairbanks

Sept. 13th. following Bartlett's trail (Bartlett was lost) the route led over broken country generally southwest towards the Huachuca Mts. They made about 15 miles.



- 17
475. Compositae banks of the San Pedro September 9, 1851
476. " low banks of the San Pedro , 2-4 ft. tall
477. Ambrosia do. , 1-2 $\frac{1}{2}$  ft. tall
478. Erythraea do.
479. algae on naked aluminous soil of the San Pedro Sept. 10, 1851
480. Euphorbia low damp soil near the San Pedro
481. *Cheopodisc* <sup>*alonglex Wrightii Wats.*</sup> do.
482. Helianthus do.
483. Aster do.
484. Cuscuta do. , on Ambrosia & Helianthus Sept. 11, 1851 ^
485. Dieteria alluvial lands near the San Pedro
486. Physalis prairies of the San Pedro
487. Verbenaceae mountain valleys betw. the San Pedro and Santa Cruz, Sept. 12, '51.
488. *Mulla biflora* <sup>*Amaryllidaceae*</sup> do. alluvial soil  
 , stony soil
489. Rubiaceae do. , rocky places
490. Krameria do. , stoney soil
491. Diodia do. , stony soil
492. Malvaceae do. , stony soil
493. Compositae do. , bed of small stream
494. Desmodium do. , banks of small stream
495. *Mappighiaceae* do. , stony places,  
 much branched from the root
496. Amaranthaceae mt. valleys bet. the San Pedro and Santa Cruz, 2 ft. high  
 bed of small branches
497. Dipteracanthus mountain valleys towards Santa Cruz, stony soil, many stems
498. Hymenatherum do.
499. Convolvulus do. , root tuberous Sept. 13, '51
500. Leguminosae do. , stony soil  
 , under oaks, many stems  
 from the root
501. Helioeris Valleys of Sonora, stony soil, many stems from one root
502. Apocynaceae Valleys of Sonora on hillside

Cochise County, Arizona

Sept. 14th., still following Bartlett's tracks, heading southwesterly towards the Huachucas, over rough and broken country, Graham's party made less than 10 miles.

Sept. 15th caught up with Bartlett (going probably less than 10 miles) who was camped in a canyon near an abandoned Ranch. This is probably at the base of the middle of the east side of the Huachuca Mts. in southwestern Cochise County. According to Bartlett, 1:391, this " was a noted cattle hacienda known as Galabasa" and had been abandoned because of the Indians. Wright remained here Sept. 16th.

*Wright of Bartlett 2:307*

Note Wright called the stream upon which this deserted hacienda was located "Sonoita Creek" If this is correct it is certainly not the Sonoita Creek in Santa Cruz County, Ariz., which runs along the south and southwest base of the Santa Rita Mts. The Sonoita Cr. of Wright is clearly a stream flowing east from the east side of the Huachuca Mts and is in SW. Cochise County.

What Wright called the Valley of Sonora is the country west of the San Pedro River and east of the Huachuca and Whetstone mountains. It is all in Arizona and in western Cochise County.

- September 13, 1851
503. Compositae Valleys of Sonora, in alluvial soil along branches
504. *Eragrostis uenemex.*  
grass (Poa) do. do.
505. Dalea do. do.
506. Astragalus do. , alluvial soil, procumbent, many stems from root
507. Eryngium do. , along branches
508. Leguminosae do. , procumbent 1-2 ft. high many stems Sept. 14, 51
509. Compositae do. , along branches
510. Cyperus do. do.
511. *Muhlenbergia Wrightii*  
grass do. do. , in small compact bunches
512. Compositae do. , branching from root
513. Chrysopsis do. , few branches from root
514. Cirsium do. , in branches, 3-5 ft. tall, branching near top
515. Bidens do.
516. Lathyrus do. , low land along branches
517. Phaseolus do. , in branches; climbing 2-4 ft. high on weeds & bushes
518. Dieteria valley of a mt. stream, the Sonoita, alluvial soil, 2-4 ft. high,  
branching above
519. Scrophulariac. do. , shrubby 2-5 ft. high,  
forming small thickets
520. Oenothera do. , low lands, 2-4 ft. Sept. 15, 1851
521. Petalostemon do. , 5 mi. above Deserted Ranch
522. Labiate do. , hillsides near Deserted Ranch
523. Compositae on the Sonoita near Deserted Ranch, much branching from root
524. Euphorbia do. , on hills
525. Leguminosae do. , banks of mt. torrents
526. Tragia do. do.
527. *Commicarpus*  
*Nyctagina* do. , rocky hillsides, fl. green-yellow.
528. Verbenac. do. , fl. blue
529. Cuscuta do. , whole plant very white
530. Ambrosiay do. , hillsides & creek-valleys
- 531 Cassia do.

Cochise Co., Arizona

September 16th remained in camp at east base of Huachuca Mts.

September 17th started to back-track and camped near where they had on night of Sept. 14th.

September 18th. camped on the Babocomari near a ruined hacienda of the same name. This deserted rancho, abandoned because of Indians, is 7 miles ~~west~~ west along the Babocomari from the San Pedro River, fide Bartlett 1: 396. Graham thought their former camp on the San Pedro (i.e. Benson) was about 25 miles N.NE. from the abandoned ranch.

On present maps the Babocomari River is the principal west fork of the San Pedro in Cochise Co. Heading in the country between and a bit west of the Huachuca and Whetstone mountains it flows generally east joining the San Pedro at Fairbank, a railroad and highway following most of its course. I am not sure that this is the stream on which Wright camped, but the probabilities are that it is, rather than the other possibility, the smaller stream flowing from the Huachuclas and joining the San Pedro 6-7 miles further south.

Wright remained in camp at the abandoned ranch on the Babocomari the 19th, 20th and 21st.

532. Euphorbia on the Sonoita near Deserted Ranch September 15, 1851
533. Euphorbiaceae do. , among rocks, 1-2ft. high, Sept. 16, 51
534. Leguminosae do. , on hillsides, branching
535. Euphorbia do. , pebbly bed of branches
536. Platanus do. , mt.-streams, large tree
537. Cnidoscolus do. , hillsides, 1-2ft. high, branching
538. Abutilon do. , hillsides, 1-4ft high, slightly branching
539. grass *Cotlea* do. , small tufts
540. Malvaceae? do.
541. Cuscuta do. , climbing widely on Nyctaginac. & other plants Sept. 17, 1851
542. Boraginaceae do. , low valley among tall weeds & grass, 2-4 ft. high, fl. greenish yellow.
543. Desmodium on the Sonoita near Deserted Ranch, low valley among tall weeds
544. Leguminosae do. , on hills, procumbent, branching from root.
545. Tephrosia do. , much branching from root
546. Galactia do. , sides of mt.-ravines
547. Compositae do. , shade of trees on sides of mountain-ravines
548. Polygala do. , stony hills
549. Solanum do. , under scrubby trees on side of mt.-ravines
550. Desmodium do. , sides of mountain-ravines
551. " do. do.
552. " do. do.
553. Convolvulus do. , sides of mt.-ravines, fl. blue-purple
554. Compositae do. , sides of mt.-ravines
555. Hymenatherum do. do.
556. *Gouphoena*  
Amaranthaceae do. , fl. red.
557. Compositae do. do.
558. " do. do.

Cochise and Santa Cruz counties, Arizona

Camping on the Babocomari near the ruins of the "Hacienda de Babocomari" the night of Sept. 18th., the party remained there thru the 19th, 20th and 21st.

Now having guides who knew the direct route to Santa Cruz, the party started for Santa Cruz the AM. of September 22nd. going west around the north end of the Huachucas. "Set off once more for Santa Cruz, recrossing the stream, and passing around the northwestern extremity of the Sierra. Our course was then due south to a range of hills, thru the valley of which we pursued our way among scattering live oaks which greatly impeded travel. . . . . At 5 o'clock, encamped among hills in a thick wood near a small rivulet." fide Bartlett 1:400. "Before we encamped, ~~at the~~ ~~entrance~~ ~~of~~ ~~the~~ ~~valley~~ we entered a very rough hilly region, covered with ~~oak~~ oak and thick undergrowth, which impeded our wagons very much. We encamped for the night among these hills, upon a pretty little stream which afforded water enough for the animals and ourselves" fide Graham, pg.44.

About the middle of the day on Sept. 22nd the party crossed the Cochise-Santa Cruz county-line. They camped that night in Santa Cruz County, at the NW end of the Huachucas.

- September 17, 1851
559. *Desmodium* deserted ranch on Sonoita , sides of mt-ravines, rock-crevices
560. ----- do. do. , fl. yellow  
turning to red.
561. *Fallugia* hills near deserted ranch, 6-10 ft. tall with short stout branches
562. *Rhus* near deserted ranch on sides of mt.-ravines
563. *Ionidium?* do.
564. *Cyperus* near deserted ranch on hills
565. *Hosackia* valley of Sonoita Creek, low damp soil among tall grass
566. *Ludwigia* pool-margins in mt.-valleys descending to the San Pedro Sept. 18, 51
567. *Cyperaceae* do.
568. " do.
569.  *Naiadaceae* do.
570. *Lobelia* do.
571. *Onagraceae* pebbly bed of mt.-branch descending to San Pedro
572. *Cassia* do. , 2 ft. tall
573. *Rutosma* mountain-side near the San Pedro
574. *Hosackia* hills near the San Pedro, many stems from root
575. ----- mt.-side near the San Pedro, 2-4 ft. tall, much branched
576. *Dalea* hills near the deserted ranch
577. grass pool-margin in mountain valleys
- September 19, 1851
578. *Cuscuta* margin of Barbocomori at deserted rancho, ~~on~~ on *Salix* ^
579. *Scutellaria* do. , fl. light blue
580. *Samolus* do. , fl. white
581. *Aster* banks of Barbocomori at deserted ranch, fl. pale bluish purple
582. *Leguminosae* margin of Barbocomori at desert. ranch, fl. yellow, Sept. 20, 1851
583. *Umbelliferae* do. , fl. white; in water
584. *Dalea* hillside near the Barbocomori Sept. 22, 1851
585. *Cuscuta* do.
586. *Dalea* hillsides from Barbocomori towards Santa Cruz
587. *Petalostemon* do.
588. *Heliotropium* do. , in rocky detritus

Santa Cruz County, Arizona, south into Sonora

September 23rd. Having camped at the northwestern end of the Huachucas the party crossed the divide into the headwaters of the Santa Cruz River and proceeded southward along it (west of the Huachucas) to ~~the border~~ Santa Cruz, a town in northern Sonora, 10 miles south of the boundary.

Graham, pg. 44-5, states "We had some difficulty getting our wagons over this range of hills, and they were a good deal rcked by the roughness of the ground. About 10 oclock we reached the head of the beautiful valley in which Santa Cruz is situated.....Our course has been generally very nearly south since we left the Babacomari; we made some easting to get over the broken hills, then resumed very nearly our former course....We reached this village about 4 oclock"

Bartlett, 1:401, states "Resumed our march at 8 oclock, our course still south, thru a wood quite difficult for the waggons. A few miles brought us to the puerta, or gate in the mountains; passing which we emerged into a very broad and open plain of remarkable beauty...Opposite from where we stood [at the puerta], and not more than 5 miles distant, were the mountains and gorges, where we had encamped for 5 days, endeavoring to find ~~the~~ a passage thru. At the further end of the valley into which we were descending, lay Santa Cruz"

Wright's collections dated Sept. 23rd. were probably all collected before he reached Santa Cruz and probably all from within Santa Cruz County, Arizona,



- Sept. 22, 1851
589. *Diodia* hillside from Barbocomori towards Santa Cruz, in rocky detritus
590. grass *Hachelactilva* do.
591. *Crotolaria* do.
- 592 *Dalea* or *Petalostemon* do.
593. *Pectis* valleys from Barbocomori towards Santa Cruz
594. *Dalea* hills from Barbocomori towards Santa Cruz
595. *Bidens* margin of branch from Barbocomori towards Santa Cruz
596. *Compositae* From Barbocomori towards Santa Cruz, hills
597. *Gentiana* do. , springs
598. *Habeneria* do. , do.
599. *Pentstemon* do. , hills, oak-hills
600. *Cirsium* do. , margin of dry branches  
oak-hills
601. *Compositae* do. , hillsides, oak-hills
602. " do. " "
603. " do. " "
604. *Leguminosae* do. " "
605. *Compositae* oak hills from Barbocomori towards Santa Cruz, hillsides,  
suffruticose 2-3 ft, high, much branching
606. *Gerardia?* oak hills from Barbocomori towards Santa Cruz, hillsides,  
fl. yellow, many stems from root.
607. *Compositae* hills from Barbocomori towards Santa Cruz, September 23, 1851  
many stems from root.
608. grass *Sporobolus* do. , in bunches
609. fern do. , rock-crevices
610. " do. do.
611. *Leguminosae* do. , sandy soil
612. *Calliandra* do. do.
613. *Zornia* do. do.
614. *Compositae* do. , sandy soil along branches
615. *Caryophyllac.* do. , branching from root
616. *Compositae* do.
617. ~~D~~

Santa Cruz, Sonora

ca. 10 miles south of the Arizona border.

The party reached Santa Cruz at about 4 oclock on the 23rd.

They remained in Santa Cruz till the morning of the 28th.

*1945-46, The ... ..*

- 22
617. *Desmodium* hills from Barbocomori towards Santa Cruz, procumbent, stems  
2-4 ft. long, Sept. 23, 1851
618. *Aster* Valleys near Santa Cruz, low damp soil
619. *Helianthus* do. do.
620. *Aster* do.
621. *Hypericum* do. , in springy place
622. *Gentiana* do. do. , fl white  
yellowish when dry.
623. --- along branches in hills near Santa Cruz
624. *Diodia* prairies near Santa Cruz September 24, 1851
625. Leguminosae bed of mountain torrents near Santa Cruz, many stems  
from root, 2-4 ft. tall
626. *Gnaphalium* bed of mt.-torrent near Santa Cruz, 1-2 ft. tall, many stems  
from root
627. *Hydrocotyle* margin of creek at Santa Cruz, in dense patches
628. *Cyperus* do.
629. Compositae pebbly bed of mt.-torrent at Santa Cruz, 2-5 ft. tall
630. " mountain-ravine at Santa Cruz, in rock-crevices, branching from  
root.
631. " Do. do. do.
632. *Physalis* do. , rocky detritus
633. *Diodia* do. do.
634. *Euphorbia* do. do.
635. *Aralia* do. , rock-crevices, 2-4 ft. tall
636. Rubiaceae do. , 1 ft. tall, fl. scarlet
637. *Dalea* do. , branches 2-3 ft. long
638. *Cucurbita* *Scyophora* *quercus* *rep.* do. , among rocky detritus
639. *Thalictrum* do.
640. *Desmodium* do. September 25, 1851
641. *Petalostemon* mountains near Santa Cruz
642. Compositae mt.-ravines at Santa Cruz, 4-6 ft. tall, branching at top
643. *Vitis* do. , 8-12 ft. climbing small trees

Santa Cruz, Sonora

The journey back to the Coppermines in New Mexico began the morning of September 28th.

Until the party reached Agua Prieta on Oct. 2nd they travelled just south of the Arizona-Sonora boundary.

There is no published <sup>states</sup> journal for this trip back to the Coppermines. Graham, pg. 47, states that he left Santa Cruz at noon on Sept. 28th and arrived at the Copper Mines on Oct. 10th.

NOTE From Santa Cruz (with Thurber) Bartlett travelled south in Sonora finally sailing from Guaymas for California. However a description of the route travelled by Wright, may be found in Bartlett's Narrative, 1:245-260 & 2: 320-333, for he made the trip from the Coppermines via Ojo de Vaca and Guadalupe Pass to Agua Prieta from May 18-22, 1851; and from Santa Cruz east to beyond Guadalupe Pass between July 28th and Aug. 4th, 1852.

September 25, 1851

- 644. Compositae mountain sides near Santa Cruz, 1-3 ft., branching from root
- 645. " do. do. do.
- 646. Helianthus do. , 2-3 ft., do.
- 647. Passiflora *inamocua* <sup>sp.</sup> do. , 2-4 ft. long, climbing among rocks
- 648. *Salvia* ~~leja~~ do. , 1-2ft tall, branching from root
- 649. Castilleja do.
- 650. Heuchera do.
- 651. Nyctaginac. do.
- 652. Petalostemon hills at Santa Cruz, branching from root
- 653. Dracocephalum low creek-bottom at Santa Cruz, 1-2 ft. tall, growing very thickly
- 654. Compositae mt.-ravines at Santa Cruz, much branching from the ground
- 655. " do.
- 656. grass *Eriochloa* do.
- 657. Sida prairies at Santa Cruz, fl. yellow, small, open 9-11 AM. Sept. 26, 1851
- 658. Mentzelia mountain ravines at Santa Cruz September 27, 1851
- 659. Helianthus sides of ravines at Santa Cruz, 2-3ft tall, few stems from root
- 660. grass *Aster* *Gouanbachii* do.
- 661. (*Sedum* *aff. Wrightii* Crassulacae) do. , rock-crevices, fl. white, red within.
- 662. Helicomeris do. , many stems from root
- 663. Asclepiadac. do. do.
- 664. Compositae do. do.
- 665. Galium do. , rock-crevices, dense bunches
- 666. " do. do.
- 667. Compositae do.
- 668. Ludwigia margin of mountain torrents at Santa Cruz
- 669. Scrophulariac. do. , fl. yellow.
- 670. Caryophyllac. mountains east of Santa Cruz September 28, 1851
- 671. Ionidium do.

672. ~~A~~

adjacent Sonora and Arizona

Until the party reached Agua Prieta on Oct. 1st. they had been travelling in Sonora just south of the Arizona border. Near Agua Prieta they again crossed into what is now Arizona (Cochise Co.) and travelled eastward to beyond Guadalupe Pass just north of the Sonora-Arizona boundary. The abandoned hacienda of San Bernardino is definitely in southernmost Cochise Co., Ariz., *on the international boundary*

- 27
672. *Ammania* along mountain torrents east of Santa Cruz Sept. 28, 1851
673. " do. , with last.
674. *Cyperus* do. September 29, 1851
675. *Salvia* mountains east of Santa Cruz
676. *Galium* do. , trailing 2-3 ft.
677. *Compositae* do. , perennial?, branching, 1-2 ft. tall
678. " do. , 3 ft. tall, biennial?
679. *Heliomeris* do. , 2 ft. tall, perennial
680. fungus do. , on decaying twigs
681. *Scrophulariac.* do. , along rivulets
682. *Leguminosae* branches of the San Pedro, open prairies Sept. 30, 1851
683. *Compositae* do. , rocky banks
684. *Caprifoliaceae* do. do.
685. *Hymenatherum* do. , open prairies, introduced? Oct. 1st. '51
686. *Perezia* do. do.
687. *Convolvulus* do. , prostrate, many branches spreading  
4-6ft. from perennial root.
688. *Jussiaea gracilis* ~~*Malpighiaceae*~~ heads of the Agua Prieta, among rocks
689. *Cassia* ~~*Woolly*~~ do. , shrubby 4-6 ft. tall,  
much branched & spreading.
690. *Hymenatherum* do. , perennial, very much branching,  
October 2, 1851
691. *Acacia* do. , broad level valleys, 6-12 ft. tall,  
sparingly branched
692. " *A. Constricta* do. , broad level valleys, 2-5 ft. tall,  
much branching
693. *Zinnia* ~~*pumila*~~ do. , very much branching perennial
694. *Convolvulus* do. , open till afternoon.
695. *Cuscuta* at San Bernardino October 3, 1851
696. *Cyperus* do. , around springs
697. *Aster* low valley at San Bernardino
698. *Helianthus* do.
699. *Euphorbia* do.

Arizona-

Guadalupe Pass is on the <sup>^</sup>New Mexican line a few miles north of the Mexican boundary.

Las Animas Valley is in <sup>goes</sup> SW. Hidalgo County, New Mexico. The old road from Guadalupe Pass <sup>^</sup>north along the length of the valley, crossed the low northern ridge of the Las Animas <sup>mts.</sup> northeastward to waterholes just west of the huge dry-lake (Playa). <sup>^</sup>From near the Playa the road strikes off NE to Ojo de Vaca, a stretch of over 50 miles without water.

It is almost certain that all the plants which Wright lists under the dates of Oct. 5th., 6th. and 7th. were collected in Hidalgo County, New Mexico.

The party probably camped west of the Playa the night of Oct. 7th. The night of the 8th, after the long dry trip northeast across the south prolongation of Grant County (~~where~~ no. 738 was probably collected), they camped at Ojo de Vaca near the Grant county-line in NW Luna County. This would permit the party to reach the Coppermines on the 10th. Compare notes given on itinerary for Aug. 28, 1851.

For a description of the Las Animas Valley and La Playa see Water Supply Paper no. 422.



700. *Cirsium* <sup>*Wrightii* nsp</sup> around springs near San Bernardino, 3-9 ft. tall, October 3, 1851
701. Malpighiaceae Guadalupe Pass, on mountains (equals 688?) Oct. 4, 1851
702. ~~*Salazariella repens*~~ <sup>*repens*</sup> *Lycopodium* do. , on rocks
703. Compositae do. , rock-crevices, many radical branches
704. *Eysenhardtia* do. , on mountains, 2-4 ft. tall
705. Malvaceae do. do.
706. Euphorbia do. do.
707. Malvaceae do. do.
708. Labiatae do. do. , 2-5 ft. tall, much branching
709. ~~*Echinocystis*~~ <sup>*Claterrum Wrightii* nsp</sup> *Echinocystis* do. do. , climbing 4-6 ft.
710. Polygala do. do. , many radical branches
711. ~~*Echinocystis dissecta*~~ <sup>*dissecta*</sup> *Echinocystis* do. do. , climbing 4-7 ft., pepo bursting elastically & projecting seeds.
712. Scrophulariac. do. do. , many radical branches
713. Apocynaceae do. do. , rock crevices
714. ~~*Asplenium lanceolatum* nsp.~~ <sup>*Asplenium lanceolatum* nsp.</sup> *Compositae* do. , 1 ft. high, very much branching
715. " do. do. , rock-crevices, 1-2 ft. tall
716. Phaseolus do. do. , twining 1-2 ft. high Oct. 5, 1851
717. ~~*Nyctaginac.*~~ <sup>*Mirabilis acyphoroides*</sup> *Nyctaginac.* do. do. , ravines, prostrate, branches 1-3 ft. long.
718. Compositae do. do. , very much branched
719. " do. do. , rock-crevices
720. ~~*Chenopodium graveolens*~~ <sup>*graveolens*</sup> *Chenopodium* do. do. , mountain-side
721. ~~*Loranthac.*~~ <sup>*flor. albicans*</sup> *Loranthac.* do. do. , on cedar
722. Compositae do. do. , mountainside, many branches from the root.
723. *Juncus* Valley of the Sierra de los Animas, margin of springs
724. *Cyperus* do. do.
725. *Aster* do. do. , stream-margin, Oct. 6, 1851
726. *Artemisia* do. do.
727. *Polygonum* do. do.
728. *Curcubicataeae* do. do. , in rocky canyon  
*Ignos parviflorus*

New Mexico

see previous page

- October 6, 1851
729. Euphorbia Valley of the Sierra de los Animos, pebbly bed of dry creek
730. Galium do. , in springs, ascending 2-3 ft. on clubrushes.
731. Leguminosae do. , in springs
732. *Hemerocallis Wiegandii* Compositae do. , 1½-3 ft. tall, common in Sonora
733. " near Sierra de los Animos, pebbly creek-bed, 4-6 ft. tall Oct. 7, 1851 erect, branching. N
734. Chenopodiaceae prairies of the Sierra de los Animos, 1-2 ft. tall, much branching.
735. Compositae Las Playas springs, in subsaline soil, forming large patches
736. Aster *highland* do. do.
737. Eryngium *Las Playas* Las Playas, around springs
738. Hymenatherum prairies between Las Playas and Coppermines October 8, 1851
739. Verbena mountain sides at the Coppermines October 11, 1851
740. Cosmidium do. & Guadalupe Pass
741. Euonymus do.
742. Dieteria do.
743. grass *Bromus* do.
744. " do.
745. " *Sporobolus* do. , small dense tufts
746. " *Blytharacium* do.
747. " *Poa Eragrostis mexicana* do. , do.
748. Compositae do. , one or more stems from root.
749. Aster do.
750. Solidago do. do.
751. *Amaranthus Wrightii* do.
752. Solidago do. , stems mostly single
753. Compositae do. , large patches under trees
754. Polygala do.
755. Erigeron do. , stems one to several

- Grant County, New Mexico

With no. 762 Wright begins to refer to the Coppermines  
as "the Cobre". This is still the coppermines at Santa Rita del Cobre,  
it is a change of name but not in location.

- 756 Dalea? Hillsides at the Coppermines October 11, 1851
- 757 " ? do.
758. Gentiana do. , stems one to several
759. Caryophyllac. do. , under bushes
760. " do.
761. " do.
762. " mountain-sides at Cobre, under rocks, branches prostrate 1-2 ft. long.
763. Compositae do. , among rocks, large bunches 4 ft. tall much branched
764. " do.
765. Dalea? do. October 13, 1851
766. Aster do.
767. Artemisia do.
768. Phaseolus do. , annual, much branched, branches prostrate
769. Artemisia do.
770. Silene do. , rock crevices, compact bunches
771. Heuchera do. do. do.
772. (*Oxybaphus*)  
Nyctaginac. do. , 1-2 ft. tall, branching
773. grass *Muhlenbergia* do. , small dense bunches
774. " (Poa) do.
775. " *Melica Porteri* do.
776. " *Eragrostis hexonea* do. , base of rocky cliff
777. Psoralea mountain-sides at the Coppermines, several stems, much branching
778. Compositae do.
779. " do. , one to several stems
780. " do. , small compact bunches in rock-crevices.
781. grass *Muhlenbergia* do. , small dense bunches
782. " *Muhlenbergia* do. do.
783. Gnaphalium do.
784. Physalis do.

Grant County, New Mexico

- 785. Compositae mountain sides at the Coppermines, October 13, 1851
- 786. moss do.
- 787. grass valley of Coppermine Creek, in small bunches, Oct. 15, 1851
- 788. Cirsium do. ,2-3 ft. tall, branched
- 789. Blepharipappus do. ,rocky shady cliffs
- 790. Pectideae do. do.
- 791. Juncus margin of Coppermine Cr.
- 792. Helianthus? valley of Coppermine Cr., under trees, 2-4 ft. tall
- 793. " do. do. do.
- 794. Artemisia do. , around thickets
- 795. Bidens? do. ,under trees & bushes
- 796. Helianthus do. ,around trees & bushes, 1-3 ft. tall
- 797. *Dactyloctenium aegyptium* grass hills around the Cobre, in small bunches October 16, 1851
- 798. *Andropogon* do. do.
- 799. *Eragrostis* do.
- 800. *Muhlenbergia* do. ,in dense bunches
- 801. *Muhlenbergia* Do. ,in small bunches
- 802. *Muhlenbergia* Do. ,small thin bunches
- 803. *Andropogon* do. ,small dense bunches
- 804. *Arctida* do. do.
- 805. *Arctida* do. do.
- 806. *Muhlenbergia* do. do.
- 807. *Andropogon cernuus* do. do.
- 808. *Sporobolus* do.
- 809. *Arctida* do. ,in small bunches
- 810. *Arctida* do. do.
- 811. " Valleys around Cobre ,under trees
- 812. *Eragrostis ramosa* (Poa) do. ,on soil burnt by fire
- 813. *Blapharoneuron* hills around Cobre
- 814. *Muhlenbergia gracilis* do. ,small dense bunches, October 17, 1851

Grant County, New Mexico



- 815. *Muhlenberg*  
grass hills around Cobre , in small dense bunches , October 17, 1851
- 816. " do. do.
- 817. " do. do.
- 818. Artemisia Valleys around Cobre
- 819. " do. and on hills
- 820. Cyperus hills around Cobre
- 821. Eleocharis do.
- 822. Loranthaceae do. , on cedars in dense bunches
- 823. Dalea pebbly bed of mountain torrent near Cobre
- 824. Gnaphalium Hills around Cobre October 18, 1851
- 825. Artemisia dracunculoid. do. and in valleys, common
- 826. *Sorghastrum*  
grass mountain valleys around Cobre, in tufts not dense
- 827. moss ravines near Cobre, on burnt ground
- 828. Bulbostylis hills around Cobre, suffruticose much branched 3-4 ft. tall
- 829. " do. , stems several 2-3 ft. tall
- 830. Woolisia *Mexicana* do.
- 831. Pteris do.
- 832. Acalypha mountains around Cobre October 20, 1851
- 833. Aster do.
- 834. Artemisia do.
- 835. Malvaceae do. , on summits, 1-2 ft. high, divaricately branching.
- 836. Cyperus margin of mt.-torrents near the Cobre
- 837. moss do. , large thick bunches
- 838. Elatine do. , often under water
- 839. Cosmos mountains around the Cobre
- 840. Compositae do. , called Anis by Mexicans
- 841. " do.
- 842. Artemisia do.
- 843. Gaura do.
- 844. Artemisia do.

Grant County, New Mexico

- 845. <sup>off Woghtlii</sup> *Sedum* mountains around the Cobre, on rocky ledges October 20, 1851
- 846. Compositae do.
- 847. <sup>Pellaea Woghtliana Hook</sup> *Pteris* do. , rock-crevices
- 848. <sup>Thalassidroma depauperata</sup> grass do.
- 849. *Artemisia filifol.* valley of Coppermine Creek, 2-4ft. tall, branching October 21, 51
- 850. grass <sup>Sporobolus Woghtlii</sup> do. , large dense bunches
- 851. *Helianthus* valley of Coppermine Cr., 2-4 ft. much branching
- 852. " do. , 3-6 ft. tall, much branching
- 853. " do. , 2-4 ft. tall, much branching
- 854. chara branches of Coppermine Creek
- 855. Compositae hills near the Cobre
- 856. <sup>Phragmites</sup> grass valley of Coppermine Creek, 2-4 ft. tall
- 857. *Chenopodium Fremontii* do. , shade of trees
- 858. *Cosmos* do. do.
- 859. moss mountains near the Cobre, on rocks October 23, 1851
- 860. *Sambucus* do. , among rocks, 6-10 ft. tall
- 861. <sup>Woodsia Plumbea</sup> fern do. , under overhanging rocks
- 862. *Rubus* do. , among rocks, 3-5ft. tall much branching
- 863. *Populus* do. , small slender tree with very smooth white bark.
- 864. *Aristida* do. , in small tufts
- 865. *Aristida* do. do.
- 866. grass do.
- 867. " <sup>Lycurus</sup> do. do.
- 868. " <sup>Panicum bulb.</sup> do. do. , in ravines
- 867bis " do. , culms mostly simple
- 868bis fern do. , rock-crevices
- 869 *Juncus* do.
- 870. fern hills from the Cobre to the Mimbres, tufts under rocks Oct. 25, 51
- 871. *Oxytropis* do. , side of ravines
- 872. *Senecio canescens* do. do.

Grant County, New Mexico

on the 25th of October Wright evidently went over the road to the Mimbres valley 10-15 miles east of the Coppermines and perhaps stayed until the 27th.

- 31
873. Populus margin of the Mimbres , tree 10-30 ft. tall, October 25, 1851
874. Helianthus valley of the Mimbres
875. Populus margin of the Mimbres, tree 15-25 ft. tall
876. Agrostis do. , in small thick tufts
877. Aster: bottom of the Mimbres , in thickets of bushes
878. " do. do.
879. Eutoca do. , fl. white, 3 ft. tall
880. Bromus do.
881. ~~Sporobolus~~  
Vilfa valley of the Mimbres , small tufts
882. Aristida do. , rather large tufts
883. " *aristata* do. do.
884. " *aristata* do. , small tufts
885. Smilacina do. , shade of thickets of bushes
886. Humulus margin of the Mimbres , climbing on small trees
887. Alnus do. , tree 10-20 ft. tall, branches nearly horizontal from near ground upwards.
888. Astragalus pine hills from the Mimbres to the Cobre, procumbent
889. Helianthella: do.
890. Andropogon *Wrightii* do. , large patches with scattered culms.
891. " " do.
892. Pinus mountains near the Cobre , 20-40 ft. high, October 27, 1851
893. " do. , 15-30 ft. tall, 10-24 in. diameter
894. *pedunculata* do. , 8-50 ft. tall, 6-20 in. diameter
895. " do. , small tree
896. Lupinus do. , ascending 2 ft. tall, spikes in fruit often more than a foot long.
897. Achillea mountain ravines near the Mimbres
898. Delphinium do.
899. Abies do. , tree 60 ft. tall, 2ft. diameter
900. Compositae do.
901. Gilia *aggregata* do. , 1-2 ft. high

The hot springs mentioned by Wright, Nov. 2nd., are evidently the hot springs near the Mimbres, mentioned by Bartlett 1:225, and given as about 18 miles from the Coppermines. These are now known as the "Mimbres Hot Springs" and are in Grant County.

collections up to and including no. 922 are all, probably, from Grant County.

Cookes Spring (near old Ft. Cummings) is in northern Luna County

Mule Spring is probably in southern Sierra County, cf. notes for July 31st, 1851.

- 902. Leguminosae pine hills betw. the Cobre and the Mimbres , October 27, 1851
- 903. Pinus do. , tree 50 ft. high  
& 1-2 ft. diameter
- 904. " pine hills at the Cobre (equals last?, if so very variable)  
October 28, 1851
- 905. Juniperus do. , tree 10-20 ft. tall, 1-4 ft. diameter
- 906. grass bottom of Coppermine Creek November 1, 1851
- 907. Juniperus hills of Coppermine Creek
- 908. chara branches of Coppermine Creek
- 909. Callitriche do.
- 910. grass *Andropogon virginicus* around the hot springs November 2, 1851
- 911. "*Sagittaria* do. , wet soil, culms scattering
- 912. "*Arenaria purpurea* do. & common elsewhere
- 913. "*Bulbularia erigada* do. do.
- 914. "*Andropogon virginicus* do.
- 915. Hymenatherum do. & elsewhere on stony soil
- 916. Euphorbiaceae bottom of the Mimbres in sandy soil
- 917. Compositae hills from the Mimbres to Rio Grande & eastward
- 918. grass valley of the Mimbres, in dense bunches
- 919. Compositae low bottom of the Mimbres
- 920. *Mullebergia* grass do. , in small bunches
- 921. Compositae do. , 4 ft. tall
- 922. *Polygonum punctatum* bed of the Mimbres in water
- 923. Ambrosia hills near Cookes Spring
- 924. Gnaphalium do. , among rocks
- 925. Chrysopsis do. do.
- 926. grass *Heteropogon* do. do.
- 927. "*Arenaria* do. do.
- 928. " do. do.
- 929. Artemisia do. do.

Collections of Nov. 4th, 5th & 6th. were made after reaching the Rio Grande (probably) at Santa Barbara (cf. notes for July 30 & 31 1851). Judging from the usual speed in travelling this stretch of Rio Grande Valley, most of these collection were probably made above Las Cruces. They are all certainly from Dona Ana County, New Mexico.



- 33
930. Baccharis bottom of Mule Spring creek November 3? (Or 2?), 1851
931. *Muhlenbergia* grass ravine at "Hole-in-rock" November 3, 1851
932. *Setaria* (no 2093) do.
933. Boraginaceae do.
934. grass hills from the Cobre to the Rio Grande, common Nov. 4, 1851
935. Compositae bottom of Rio Grande on sandy ridges
936. *Aristida purpurea* do.
937. Stipa? *Agropyris* do.
938. Vilfa? *Sporobolus* do.
939. Compositae do. , forming dense thickets  
1-4 ft. high.
940. Vilfa? *Sporob. flavescens* do.
941. " *Sporobolus Wiegandii* do. , dense tufts
942. grass *Muhlenbergia repens* around springs
943. Vilfa? *Sporobolus* bottom of the Rio Grande on sandy ridges
944. *Sporobolus* do.
945. Panicum *virgatum* margin of the Rio Grande November 5, 1851
946. *Muhlenbergia asperifolia* grass bottom of the Rio Grande in sandy hollows
947. Vilfa? *Sporobolus* bottom of Rio Grande in sandy soils
948. *Sporobolus* do.
949. *Muhlenb. Porteri* grass valley of Rio Grande , among bushes on hills & in valleys  
November 6, 1851
950. *Aristida purpurea* do. , on hills
951. Dalea do. , on sandy hills
952. Compositae low valleys of the Rio Grande, in large bunches.
- 
- 
-

[The page contains extremely faint, illegible text, likely bleed-through from the reverse side of the document. The text is too light to transcribe accurately.]





List for 1851-52 - third part.

1. moss Prairies of Rio Grande below San Elizario, under bushes Feb. 1852
2. Lichen do. , on naked sandy soil
3. " do.
4. Crucifera Prairies of RioGrande & in thickets on sandy soil  
below San Elizario
5. Boraginaceae Hills of Rio Grande <sup>below San Elizario</sup> stony ridges, fl. light blue March 1852
6. " do. do. , fl white
7. Oenothera do. do. , fl. yellow
8. fungi do. , in sandy soil
9. alga do. , sandy soil, spreading on ground
10. lichen Sandy hills of the Rio Grande below San Elizario, March, 3, 1852
11. " do. , on the ground
12. fungi do. do.
13. lichen do. do.
14. " do. do. (equals no. 13?)
15. Crucifer stony hills of RioGrande below San Elizario.
16. fungi sandy hills of the Rio Grande below San Elizario.
17. moss do. , without fruit
18. fungus do.
19. Lepidium <sup>Wrightii var.</sup> do.
20. Draba <sup>" cuneifolia"</sup> stony hills of the Rio Grande below San Elizario
21. Crucifer sandy hills of the Rio Grande below San Elizario
22. Myosurus low bottoms of Rio Grande at San Elizario March 14, 1852
23. Corydalis sandy hills of the Rio Grande
24. (<sup>Cryptantha micrantha</sup> Boraginaceae) do.
25. Eutoca <sup>Thurberia caespitosa</sup> stony hills near the canyon leading to San Antonio
26. Hymenastera do. March 20, 1852
27. Gilia <sup>regidula var.</sup> do.
28. Vesicaria do. , and in valleys, abundant

Texas along the Rio Grande

Late in 1851 Graham was recalled to Washington and Wright was transferred (in Nov.) from the corp of naturalists to the Engineers and put to work surveying the Rio Grande. In his letter to Gray dated Jan. 25, 52, he says, "Since he left (Graham, early in Dec. 51) I have surveyed the Rio Grande from San Ignacio thirty miles below this place (San Elezario) to the canyon where the San Antonio road first strikes the river"

San Ignacio is on the Mexican side of the river about 7 miles below the Mexican town of Guadalupe and about 5 or 6 miles up river from the point where the El Paso-Hudspeth county-line hits the Rio Grande

San Elizario is in El Paso County near the Rio Grande ca. 20 m. S of El Paso  
The canyon leading to San Antonio from the Rio Grande is in the Quitman Mts. ~~near~~ old Fort Quitman and is in Hudspeth County  
*6 miles below*

concerning Graham's period of attachment to the Boundary Survey  
see Bartlett, ~~Narrat.~~ 2: 545

- 29. Ephedra stony hills near canyon leading to San Antonio, March 20, 1852.  
"new *Strophanthus*" 2-5 ft. tall,  
much branched.
- 30. Crucifer do.
- 31. "Galium *vegetum* v. *diffusum*" do.
- 32. Boraginaceae do.
- 33. crucifer do. , equals no. 15
- 34. Lycium? do. , 2-4 ft. tall, much  
branching, tube of corolla white, margin yellowish green.
- 35. Plantago stony hills near canyon leading to San Antonio
- 36. Gilia minima naked alluvium near canyon leading to San Antonio, fl. light purple
- 37. Eriogonum <sup>*abertianum*</sup> stony hills near canyon leading to San Antonio, March 21, 1852.  
fl. yellowish red.
- 38. *Oenothera* vsp Epilobium? do. , do.
- 39. Eutoca do. , fl. purple
- 40. Compositae do. , many stems from root,  
perennial, fl. purp.
- 41. Cereus do. , fl. vermillion, ribs 8-12,  
branching, stamens purp., stigmas yellowish green.
- 42. <sup>*Cyperus cinereus*</sup> Compositae sandy ridges along the Rio Grande March 22, 1852.
- 43. Euphorbia low bottoms of Rio Grande
- 44. Gilia <sup>*longiflora*</sup> sandy ridges along Rio Grande , fl. purple
- 45. <sup>*Alouca Torreyi*</sup> Nyctaginac. do. , fl. red-purple
- 46. Astragalus do. March 26, 1852 .
- 47. Compositae stony hills near Frontera , fl. light reddish
- 48. *Amelocoma* vsp? do. do.
- 49. Vesicaria do.
- 50. Allium do. , fl. red
- 51. ~~Mieron~~ <sup>*Hedeoma*</sup> do. , fl. purple March 27, 1852
- 52. Astragalus do. do.
- 53. <sup>*Malacollis sandwichi*</sup> Compositae do. , fl. yellow
- 54. <sup>*Tausendia strogos*</sup> do. , fl. reddish white
- 55. Polemoniaceae do. , fl. light purple
- 56. <sup>*Aphelostephanum*</sup> Compositae do. dp.

Frontera is on the Rio Grande just north of El Paso  
in El Paso County, Texas

see notes for July 26th, 1851.

Collections of March 30th, made across the RioGrande from Frontera  
are from the extreme southeast corner of New Mexico, Dona Ana Co.



- 57. Eutoca stony hills near Frontera, fl. light purple March 27, 1852
- 58. Polemoniaceae do. do.
- 59. Baileya do. , fl. yellow
- 60. ~~Polemoniaceae~~ <sup>Gilia polycladum</sup> do. , fl. white tinged with pink
- 61. Astragalus banks of acequia near El Paso
- 62. " do.
- 63. Gilia do.
- 64. Dipteracantha stony hills near El Paso
- 64bis Compositae do. , fl. light red, equals no. 54
- 65. Vesicaria do. , fl. purple
- 66. Polygala do. do. , March 29, 1852
- 67. Micromeria do. do.
- 68. Eutoca do. do. equals no. 57?
- 69. ~~Boraginaceae~~ <sup>Cryptantha</sup> valleys between hills near Frontera, fl. white <sup>Cryptantha y terocarya</sup>
- 70. Ephedra stony hills near Frontera, 3-6 ft, much branching
- 71. Perèzia do. , fl. light purple
- 72. Apocynaceae do. , much branched from root, tube greenish purple, limb white.
- 73. Rhus do. , 2-4 ft. high, much branching
- 74. Dalea do. , 1-2 ft. high, much branching, keel & wings purple, banner yellowish tinged with purple
- 75. Compositae do. , much branched from base
- 76. Lupinus sandy ridges across river from Frontera March 30, 1852
- 77. Apocynaceae do.
- 78. Rumex <sup>lymenosepalus Torr</sup> do. , 2-3 ft., many stems from root, perennial.
- 79. Compositae rocky ridges across river from Frontera
- 80. Boraginaceae <sup>Cryptantha</sup> do. <sup>terocarya</sup>
- 81. Condalia do. , 2-3 ft, much branching
- 82. Hymenatherum do.
- 83. <sup>Filago</sup> Compositae do.
- 84. " sides of stony ridges near Frontera Merch 31, 1852

El Paso County, Texas

- 4
85. "*Asparagus Nuttallianus*"  
Leguminosae stony valleys near Frontera March 31, 1852
86. Echinocactus do.
87. -----? stony hills near Frontera, fl. very light purple
88. Echinocactus do. , 2-6 in. high, fl. red
89. Sidalcea do. April 1, 1852.
90. Compositae do.
91. Townsendia bottom of Rio Grande near Frontera
92. "*Erygeron cinereum*"  
" " hills of the Rio Grande near Frontera
93. Astragalus stony hills of the Rio Grande near Frontera
94. Mamillaria do. April 2, 1852
95. Cereus do. , simple or mostly branched,  
fl. yellowish green.
96. Lathyrus mountain ravines near Frontera April 3, 1852
97. Anemone do. , fl (apparently) white.
98. Micromeria mountain sides near Frontera , fl purple
99. Verbena do. , fl. light purple
100. Euphorbia do.
101. Compositae do.
102. Rutosma do. , 2-4 ft. tall, much branched, fl. white
103. Fendlera do.
104. Rhamnaceae do. , 2-4 ft. tall, much branched, fl. white.
105. grass mountain ravines near Frontera
106. fern mountain sides near Frontera, rock-crevices
107. Boraginaceae do. , fl. yellow
108. Gaura do. , fl crimson
109. Erigeron do. , fl. light purple
110. Parietaria do. , under rocks
111. Physalis do. , fl. yellow within, purple & yellow  
without.
112. grass hills near Frontera
113. Erodium do. , fl. purple

El Paso County, Texas

114. *Ranunculus* sand bars of the Rio Grande , fl. yellow April 5, 1852
115. *Mentzelia* mountain sides near El Paso, fl. diurnal, small, yellow
116. " do. , nocturnal, yellow
117. *Lepidium* do.
118. *Chryseis* (spell???) do. , among rocks
119. *Senecio* river bottom near Frontera April 7, 1852
120. *Vesicaria* hills near Frontera April 8, 1852
121. *Mammillaria* mountain near Frontera on or near summit
122. *Eutoca* sand hills near Frontera, fl. light purple
123. "*Selaginella muhlenbergii*"  
*Lycophodium* summit of mountains near Frontera, dense tufts under rocks,  
April, 10, 1852
124. *Actinella* do.
125. *Acanthaceae* sides of mts. near Frontera, much branched from perennial root
126. lichen summit of mts near Frontera, red, on north face of rocks
127. " do. , yellow, do.
128. " do. , greenish, do.
129. " do. , yellow, do.
130. " do. , green, do.
131. " mountain side near Frontera, on stems of *Ephedra*, green
132. " do. do. , whitish
133. " do. , loose rocks, white.
134. "*St. Gloeum rep!*"  
*Eriogonum* hills near Frontera, stony ravine April 12, 1852
135. *Frameria* do. , very much branched from root
136. *Acanthaceae* sandy valleys near Frontera
137. *Senecio* valley of Rio Grande near Frontera, common in sandy soil Apr. 14, '52
138. *Oenothera* s stony hills near Frontera , fl. nocturnal
139. lichens do. , under overhanging rocks
140. " do. do.
141. " do. do.
142. *Townsendia* valleys near Frontera April 15, 1852
143. *Gilia* stony valleys near Frontera, fl. very light purple, tube yellow

Chihuahua, Mexico ( April 17th and following)

Cimieluque this is a phonetic rendering of Samalayuca (other renderings of this name in the writings of the Boundary Survey are, Cemialauke and Samalayurca). This is a famous water place due south of El Paso on the main road to Chihuahua City. Samalayuca Springs are a mile or so south of the present town of Samalayuca, Chihuahua, 30-35 miles from El Paso.

The "sandhills between El Paso and Chihuahua" are obviously the famous dunes, medanos, between Samalayuca and Candelaria.

~~Wright's locality, "the Salado" has not been located. There is no Rio Salado on any map I can find.~~ The road Wright took probably went south on the main Chihuahua City road to about Candelaria, about 15 mi. south of Samalayuca, and then turned southwest for 10-15 mi., then west to the Rio Santa Maria which flows north into Lake Santa Maria.

Parry, in Emory Rep. Mex. Boundary vol. 1, pt. 2: 10-11, probably travelled the same road from El Paso to the Rio Santa Maria. He gives a description of the country traversed.

Bartlett, Nar. 2:368-379, describes his journey from the Rio Santa Maria, via the Salado, the Medanos and Samalayuca, to El Paso and gives many details ~~of the country~~ concerning the country. He states that the medanos begin about 2 mi. S. of Samalayuca, are 8 mi. broad, and that the Salado, ("Salt Lake, from 2 to 4 mi. across") is about 30 miles SW after the dunes are crossed. Some pools of fresh water near the Salado is the nearest water west of Samalayuca. From the Salado (generally SW) it is about 25 mi. to the Rio Santa Maria. The Salado must be at or near the settlement called Amoreosa on modern maps. is the Salinas de la Union and the springs near by are near the town called La Union on modern maps.



- April 15, 1852
144. *Gilia* stony valleys near Frontera, fl. very light purple, tube white
145. *Townsendia* do.
146. *Linum* stony hills near Frontera
147. *Gnaphalium* alluvial valley near El Paso -- road to Chihuahua April 17, 1852
148. *Heliotropium Greggii* do. do. , fl. white, greenish yellow in throat.
149. *Oxytropis* do. do. , fl. purple
150. *Nasturtium* margin of Cimieliuque on road to Chihuahua
151. *Funaria* do.
152. *Ribes* do. , 6-8 ft., branching
153. *Comandra* on sandy hillrocks El Paso to Chihuahua
154. *Foriestiera* do.
155. *Lemna* Cimieliuque Spring, 35 miles from El Paso
156. *Hydrocharis* do. *in betw. El Paso & Lake Santa Maria*
157. *Salvia* sandhills between El Paso and Chihuahua
158. *Lepidium* rocky hills 50 miles from El Paso towards Chihuahua Apr. 18, 1852
159. *Compositae* sandhills between Cimieliuque Spr. and the Salado.
160. *Evolvulus* between Cimieliuque Spr. & the Salado, fl. white, anthers purple
161. *Cereus* do. , fl purple, branches few
162. *Dieteria* valley of the Salado, betw. El Paso & Chihuahua, fl purple
163. *Spharalcea pedunculata* do. , fl. light purple
164. *Oenothera* valley betw. the Salado & Lake Santa Maria April 19, 1852
165. *Chenopod.* do.
166. *Veronica* do. , in low places
167. *Cereus* do.
168. " hills betw. Salado and Lake Santa Maria
169. *Astragalus* valley betw. the Salado and Lake Santa Maria
170. *Erigeron* do. , fl. white purple beneath
171. *Eriogonum abertianum* foot of hills towards Lake Santa Maria, fl purple
172. *Nyctaginac. felineocarpus chen.* do.

Chihuahua, Mexico

"the Santa Maria" is the Rio Santa Maria which drains north into the south end of Lake Santa Maria.

Lake Gusman (Guzman of modern maps) is over a low divide and about 10 mi. northwesterly from Lake Santa Maria.

From Lake Gusman the party appears to have gone east to the Chihuahua Road and then back to El Peso.



173. Lathyrus banks of the Santa Maria , fl purple April 19, 1852
174. grass do.
175. Geranium *carolinense* do.
176. Leguminosae do. , fl. white Cal. blue purple
177. Euphorbia do.
178. Senecio do.
179. Nicotiana do. , fl. purple
180. grass base of hills near the Santa Maria
181. Castilleja banks of the Santa Maria
182. Apocynaceae dry mt. torrent descending to Lake Santa Maria, April 20, 1852  
fl. white, tube green, many stems from the root.
183. Compositae mt.-side near Lake S. Maria, much branching at ground
184. Streptanthus do. , fl purple
185. Sphaeralcea *Wrightii* sp do. , near the summit
186. Euphorbia do. , (here I planted a butcher-knife)
187. Lathyrus do.
188. *Dryobalanus* *paniculatus* sp  
Arabis do. , white
189. " mt.-tops near Lake S. Maria
190. *Eutoca* *infundibuliformis*  
Eutoca mt.-sides near Lake Santa Maria, fl. purple, under overhanging  
rocks.
191. Daucus *pusilla* do.
192. Umbelliferae do.
193. *Eragrostis obtusiflora*  
grass margin of Lake Santa Maria
194. Micromeria stony plain near Lake S. Maria, fl. purple
195. Compositae shore of Lake Gusman April 21, 1852
196. Malvaceae do.
197. lichen plains betw. Lake Gusman and Frontera, on mesquite bushes
198. " do. do.
199. Phaca sandhills betw. Lake Gusman & Frontera
200. Asclepias do. April 23, 1852
201. Tauschia do.

The collections of Apr. 23rd. are <sup>from</sup> Chihuahua, Mexico

Frontera, near El Paso, Texas, Apr. 24th, 26th & 27th.

Camp Fillmore (now in ruins) is several mi. east of the Rio Grande, about 7 miles SSE of Las Cruces, near the present highway between Las Cruces and El Paso. It is in Dona Ana County, New Mexico. Bartlett, Narat. 2:390-94, visited Ft. Fillmore and the adjacent Organ Mts. in Sept. 1852. and describes the fort and the mts.

- 8
202. Astragalus sandhills between Lake Gusman & Frontera April 23, 1852
203. Apocynaceae near Lake Santa Maria ; equals 182
204. fungi sandhills between Lake Gusman & Frontera
205. Cereus hills near Frontera, among stones and rocks, fl. yellow Apr., 24, 1852
206. Asclepias do. , and in low bottom, fl. purple, crown-lobes white
207. ~~Rumex~~ *Rumex* margin of Rio Grande near Frontera
208. Evolvulus valley of Rio Grande near Frontera, fl. white, anthers purple
209. Salix *nigra* do. , common, 10-20 ft. tall
210. Hymenopappus sandhills near Frontera April. 26, 1852
211. Ephedra do. , 2-5 ft. tall
212. Eriogonum *rotundifolium* do.
213. Ephedra do.
214. " do. , 1-3 ft. tall
215. grass *Muhlenb. repens* do. , in small tufts  
*(of Oregon no 1996)*
216. Linum do.
217. Ephedra do. , 103 ft. tall
218. Echinocactus stony hills at Frontera , fl. purple April 27, 1852
219. Galium do.
220. Galardia do.  
near
221. Gaura valleys ~~at~~ Frontera , fl red.  
near
222. Compositae hills ~~at~~ Frontera
223. Talinum stony hills near Frontera , fl purple or red, small
224. Hoffmannseggia sandy valleys at Camp Filmore April 29, 1852
225. Abronia *fragrans* sandy hills at Camp Filmore, fl. white, tube greenish purple
226. Compositae do. , fl. white
227. " do. , an in Organ Mts.
228. Cereus do. , fl. purple
229. Eriogonum do. , fl. yellow
230. Senecio side of Organ Mts. , many stems from root
231. Umbelliferae do.

Organ Mountains east of old Ft. Fillmore  
Dona Ana County, New Mexico

April 29, 1852

- 232. Cirsium Side of Organ Mts., 2-4 ft. tall, somewhat branching
- 233. grass do. , in small tufts
- 234. Rhus do. , in bunches, branching, 3-5 ft. tall
- 235. Castilleja do. April 30, 1852
- 236. Ungnadia ravines of Organ Mts., 2-8 ft. tall, much branching
- 237. Galium do.
- 238. Orobanchaceae sandy banks in the Organ Mts., fl. yellowish
- 239. ~~Amaranthaceae~~ <sup>Gnaphalium caespitosum</sup> hillsides in the Organ Mts.,
- 240. Astragalus do. , fl. purple
- 241. Pentstemon do. do.
- 242. Compositae ravines in the Organ Mts.; fl. limb white, tube purple
- 243. Aquilegia do. , wet springy soil, fl. yellow
- 244. Labiatae do. , among bushes, fl. red-purple
- 245. Orobanch. do. , on steep banks
- 246. Hieracium sides of the Organ Mts., fl. yellow
- 247. Marchantia wet ravines in Organ Mts
- 248. Pentstemon ravine-sides of Organ Mts. one to several stems from root
- 249. lichen perpendicular rocks, Organ Mts.
- 250. Rhus ravines of Organ Mts., 2-5 ft. tall, branching
- 251. grass do. , in small bunches
- 252. lichen ~~Ascomycete~~ do. , on cedar branches
- 253. Caryophyllaceae do. , fl. white
- 254. Salix do. , along stream, 4-10 ft. tall
- 255. grass do. , near branches
- 256. lichen Organ Mts., on branches of Abies
- 257. Scroph. " , along streams , fl. purple
- 258. grass " "
- 259. lichen " , on cedar branches
- 260. Abies " , 20-50 ft. tall
- 261. lichens " , branches of Abies

Organ Mts east of old Fort Fillmore, Dona Ana County, New Mexico  
through April 30th.

then back to Frontera (near El Paso), Texas

- 262. Cruciferae ravines of the Organ Mts April. 30, 1852
- 263. grass ravine-sides of Organ Mts.,
- 264. Astragalus plains near the Organ Mts. , fl. purple
- 265. Lupinus do. do.
- 266. Euphorbiaceae hills at base of Organ Mts.
- 267. Ionidium do.
- 268. Lepidium ravines of the Organ Mts.
- 264bis Hosackia hills at base of Organ Mts. , fl. yellow
- 265bis Phlox do. , fl. purple
- 266bis Compositae ravines of the Organ Mts., 1-2 ft. tall, much branched
- 267bis Cucurbit. do. , fl. yellow
- 268bis Hypnum do. , wet
- 269. Erigeron sides of Organ Mts.
- 270. grass Rio Grande bottom May 2, 1852
- 271. Compositae do.
- 272. Chysopsis sandy valleys near Frontera May 3, 1852
- 273. Aphora stony hills near Frontera May 4, 1852
- 274. Salvia sandy valleys near Frontera, large thick bunches, 1-2 ft. tall
- 275. Apocynaceae rocky ravines near Frontera, much branching from root
- 276. Compositae rocky hills near Frontera, do.
- 277. ~~grass~~ *Blapharidachne Regelii* do. , small compact bunches
- 278. Scrophular. do. , fl. purple, 1-2 ft. tall, much branched
- 279. " *... ..* do. , fl. purple, spreading procumbent
- 280. " do. , fl. light purple prostrate spreading
- 281. grass *avertida* do. , in small tufts
- 282. Opuntia do. , fl. yellow, yellowish within
- 283. Fouquieria do. May. 5, 1852
- 284. *Heliotropium cubense* Rio Grande bottom, spreading prostrate, fl. white May. 6, 1852
- 285. Lepidium Rio Grande Valley, much branching, fl. white
- 286. Senecio low bottom of the Rio Grande at Frontera

El Paso County, Texas



- 11
287. Salix margin of the Rio Grande at Frontera, 6-10 ft. tall, May 6, 1852
288. Compositae hills near Frontera , fl purple
289. grass do. , in small tufts
290. Polygala do. , fl purple
291. grass do.
292. Cosmidium valleys near Frontera , fl. yellow changing to purplish
293. *Abronia cycloperum* do. , in sand, fl. purple
294. Erigeron Rio Grande bottom, Frontera , fl. light purple
295. Polygala Rio Grande valley, Frontera, on stony hills, fl purple
296. Micromeria Rio Grande bottom, Frontera , fl purple
297. Asclepias stony hills near Frontera , fl. light purple
298. Ayenia rocky ravines near Frontera, fl. dark red
299. Compositae stony hills near Frontera, fl. yellow
300. Dieteria do. do.
301. Solanaceae Rio Grande bottom, very abundant, fl. purple, 2-6 ft., much branching
302. Baileya sandy valleys at Frontera May, 10, 1852
303. Krameria stony hills near El Paso, prostrate, May 11, 1852
304. Dalea do. , fl purple
305. " do. , fl. yellow turning purplish
306. Tessaria Rio Grande bottom at El Paso, very abundant
307. ConDALIA hills near Frontera, 4-7 ft, much branching, with ripe fruit and  
flower- buds.
308. Hoffmannseggia Rio Grande Bottom near El Paso
309. Malvaceae do. , fl yellow
310. Astragalus sandy ridges at Frontera May, 15, 1852
311. Opuntia do. *O. arenaria (L.) Ellis, 235*
312. Actinella Rio Grande bottom at Frontera
313. Melilotus do.
314. fungi on roots of the preceding
315. Portulacc. Rio Grande bottom at Frontera
316. Astragalus Rio Grande bottom near Frontera - May 15, 1852

EL Paso County, Texas

Frontera is a few miles above El Paso

San Elizario is about 20 miles down river from El Paso

- 317. Aster Rio Grande bottom near Frontera , fl purple, May 18, 1852
- 318. Aplothecca hills near Frontera
- 319. Acacia do. , 3-6 ft. tall, much branching
- 320. Scrophulariac. do. , 1-2 ft. tall
- 321. Wislizenia Rio Grande bottom near Frontera
- 322. Chilopsis pebbly bed of branch flowing to Rio Grande, 6-10 ft, branching
- 323. Teucrium low bottom of the Rio Grande, fl. very light purple or white
- 324. Polygala mountains near El Paso, fl. purple, May 19, 1852
- 325. Compositae do. , fl. yellow, much branched from root
- 326. Paronychia do. , fl. yellow
- 327. Nicotiana do. , fl. light yellow
- 328, Mortonia do. , fl. white, much branched & spreading
- 329. Opuntia do. ,
- 330. grass margin of acequias at El Paso
- 331. Samolus Rio Grande bottom at El Paso, fl. very light purple
- 332. Opuntia on sandhills below El Paso
- 333. Solanum near San Elizario May, 25, 1852
- 334. Algarobia do.
- 335. grass do. , margin of acequia
- 336. Malvaceae do. , banks of acequias
- 337. Opuntia do. , in Rio Grande bottom, 6-10 ft. tall, in small bunches, fl. purple.
- 338. Umbelliferae cultivated in gardens at San Elizario, fl. purple
- 339. grass old fields at San Elizario
- 340. " *Andropogon sacchar.* do.
- 341. " do.
- 342. " margin of acequias at San Elizario
- 343. " banks of acequias at San Elizario
- 344. Samolus margin of ponds at San Elizario
- 345. Glycorhiza, Rio Grande bottom at San Elizario, 1-3 ft, fl white Junel, 1852

El Paso County, Texas

- 346. *Medicago* fields near San Elizario, introduced, fl. purple June 1, 1852
- 347. *Rumex* <sup>*volucreus*</sup> around ponds near San Elizario
- 348. *Juncus* do.
- 349. *Scirpus* do.
- 350. *Eleocharis* do. June 2, 1852
- 351. " do.
- 352. " do.
- 353. *Plantago* do.
- 354. grass Rio Grande bottom near San Elizario
- 355. " do. , in shade
- 356. " *Panicum Steuderi* do.
- 357. " *Sporobolus vaginatus* do.
- 358. " " " do.
- 359. " *Salicaria* (no 2974) do.
- 360. *Gaura* do. , 3-7 ft. tall
- 361. *Marsilia* low ground near San Elizario June 3, 1852
- 362. *Deshcllis* grass do. , in water
- 363. *Anemopsis* do.
- 364. *Potamogeton* *pectinatus* do. , in running water
- 365. *Chara* do. , in stagnant water
- 367. *Potamogeton* do.
- 368. *Dalea* sandhills near San Elizario, branching, procumbent June 7, 1852
- 369. " do. , 2-3 ft, much branching
- 370. *Paspalum* <sup>*richardsonii*</sup> low ground near San Elizario June 9, 1852
- 371. *Aster* do. , 1-3 ft, much branched
- 372. *Caryophyll.* do. June 14, 1852
- 373 *Nicotianacae* do.
- 374. *Baccharis* do. , 3-6 ft. tall
- 375. *Verbena* do. , prostrate much branched
- 376. *Rumex* <sup>*volucreus*</sup> Old river near San Elizario, in water 2 ft. deep, 3-5 dt. tall

Probably all El Paso County, Texas

Wright's party must have left San Elizario for the  
return trip to San Antonio about June 17th. or 18th.

- 14
377. Scirpus Old river near San Elizario, in water, 6-10 ft. tall June 14, 1852
378. " do. do. , 6-8 ft. tall
379. Eleocharis low ground near San Elizario
380. Sambucus San Elizario, around houses, 8-12 ft. tall, 6-12 in. diameter
381. Compositae San Elizario, sandy soils, common, 1-3 ft. tall
382. Scirpus in old river near San Elizario, 3-4 ft. tall
383. Asclepias low ground near San Elizario , 1-3 ft. tall
384. Chenopodium <sup>leptoph</sup> fields near San Elizario
385. <sup>aristata</sup> grass sandhills near San Elizario , in small dense tufts
386. Polygonum <sup>ar.</sup> fields at San Elizario June 15, 1852
387. " *P. ramossimum* do.
388. Aster do.
389. Potamogeton <sup>pectinatus</sup> in old river 2 miles from San Elizario
390. Hydrocharis? do.
391. ~~Sagittaria~~ <sup>Sagittaria</sup> *calycinus* do. June 16, 1852
392. Cuscuta bottom of Rio Grande on *H. cilistatus*, forming large patches
393. Panicum banks of old river below San Elizario
394. <sup>*Atriplex canescens*</sup> Obione sandy ridges on Rio Grande, 3-5 ft. tall, much branching June 17, '52
395. Yucca do. , 4-6 ft. tall
396. Euphorbiaceae sand hills on the Rio Grande, much branching from root
397. <sup>*Atriplex canescens*</sup> Obione bottom of Rio Grande, much branching
398. Compositae do.
399. Opuntia do. , 3-6 ft. tall
400. Helianthus Sand hills on the Rio Grande, 1-3 ft tall, lower branches horizontal.
401. Palafoxia do. , June 18, 1852
402. Euphorbiaceae do.
403. Liliaceae do. , fl. yellow
404. Compositae do. , fl. purple
405. Apocynum Rio Grande bottom, fl. white, 3-4 ft. tall June 19, 1852
406. Aster do. , fl. purple

The collections of June 21st. are along the road from the Rio Grande through the Quitman Mts. to Eagle Springs (see notes ~~for~~ Aug. 30th & Sept. 1st, 1849) in Hudspeth County Texas.

June 22nd the party evidently moved on to Van Horne Wells in southwestern Culberson County, Texas (cf. notes for Aug. 30, 1849)

June 23rd the party probably passed into western Jeff Davis County ~~or certainly did so on the 24th.~~ camping at Rain Water Creek that night. (see notes for Aug 1849), Dead-man's Hole is evidently between VanHorne Well and RainWater Cr. and perhaps may be the waterhole on Chispa Cr. (about 8 mi. south of VanHorne Wells near the Culberson-JeffDavis county-line.

Emory, Rep. Mex. Bound. Surv. 1:135 (1857), gives the following log of distances,-

San Elceario - 59.80 - last camp on Rio Grande - 31.42 - Eagle Springs  
- 19.74 - Van Horn's Wells - 32.83 - Dead Man's Hole - 13.58 -  
Barrel Spring - 18.42 - Fort Davis - 28 - Varella Springs  
- 33.86 - Leon Spr. - 8.88 - Comanche Spr.

These however do not agree with the log by French, see notes for Aug. 26, 1849, and make Wright's route for June 23, 1852, unintelligible. How could Wright travelling east go from Van Horn's Well to Deadman to Rainwater Cr. & Rock Cr. order reversed.



- 407. *Coreopsis* Rio Grande bottom, in hollows, June 19, 1852
- 408. *Erythaea* do. do.
- 409. *Scirpus* do. , in water-holes
- 410. *Cereus* sand hills of the Rio Grande, densely caespitose
- 411. *Leguminosae* do. , 2-5 ft. tall, much branched
- 412. *Koerberlinia* sandhills along Rio Grande, 4-8 ft. tall, much branched
- 413. ----- ravines from Rio Grande to Eagle Springs, 2-3 ft. tall, June 21, 1852
- 414. ~~-----~~ *Selagin* rocky ridges, Rio Grande to Eagle Sprs.
- 415. *Condalia* prairies from Rio Grande to Eagle Springs, 4-6 ft. tall
- 416. *Mammillaria* do. , and along Rio Grande, caespitose
- 417. *Bernardia obovata* hillsides, Rio Grande to Eagle Sprs., 2-3 ft. tall, much branched
- 418. *Polygonum* ~~Euphorbiaceae~~ *torreyi* valleys from Rio Grande to Eagle Sprs., procumbent, much branched from the root, fl. yellow
- 419. *Krameria* hills from the Rio Grande to Eagle Sprs., much branched
- 420. *Heliomeris* do. , much branched, 2-3 ft. tall
- 421. *Opuntia* hills near Eagle Springs, 2-3 ft. tall, much branched & spreading
- 422. *Asclepiad.* do. , climbing 2-4 ft. on bushes
- 423. *Hedyotis* do. , in crevices of rocks
- 424. *Fraxinus* ravines near Eagle Springs, 4-8 ft. tall, much branched
- 425. *Actinella* banks of branch between Eagle Sprs. & VanHorne's Well, June 22, '51
- 426. grass do.
- 427. *Heliotropium Greggii* prairies, Eagle Spr. to VanHorne Wells
- 428. *Cucurbit.* do. do.
- 429. *Euphorbiaceae* valley betw. Eagle Sprs. & VanHorne Wells
- 430. *Peteria* do.
- 431. *Ayenia* in rock-crevices at Van Horne's Well June 23, 1852
- 432. *Talinum* prairies from VanHorne Well to Dead-man's Hole, fl. light yellow, vespertine.
- 433. moss from Eagle Springs to VanHorne Wells, rock-crevices on hills.
- 434. *Leguminosae* at Van Horne's Wells, on stony hills
- 435. *Linum* prairies from VanHorne Wells to Dead-man's Hole

probably all Jeff Davis County, Texas

See notes on localities for Aug. 1849

June 23rd Wright went from Van Horne Well to ~~the~~ Rain Water Creek

June 24th Wright went from Rain Water Creek to Rock Creek (Smiths Run)

June 25th Wright appears to have traveled from Rock Creek (or Smiths Run) to Painted Camp at the head of the Limpia.

- 436. *Microrhamnus* Prairies from VanHorne Wells to Deadman's Hole, June 23, 1852
- 437. Talinum do. , fl. orange
- 438. *Lepidium* do. , in prairie-dog towns
- 439. *Asclepias* do. do.
- 440. " do. do.
- 441. *Eriogonum* *Albertianum* do. do.
- 442. *Polygala* prairies from Van Horne Wells to Rain-water Creek
- 443. *Thelypodium* margin of Rain-water Creek June 24, 1852
- 444. *Oxalis* do.
- 445. *Asclepias* do.
- 446. grass do.
- 447. Cucurbit. prairies from Rain-water Cr. to Rock Creek
- 448. *Krameria* hills from Rainwater Cr. to Rock Creek
- 449. *Baccharis* prairies from Rain-water Cr. to Rock Cr., prairie-dog towns
- 450. *Oxalis* do. do.
- 451. *Portulaca* do. do.
- 452. *Compositae* do. do.
- 453. *Actinella* hills from Rain-water Cr. to Rock Cr., do.
- 454. *Euphorbiaceae* bed of a small dry creek
- 455. *Boraginaceae* hills from Rain-water Creek to the Limpio June 25, 1852
- 456. *Leguminosae* do.
- 457. " do.
- 458. *Apocynaceae* do.
- 459. *Rhamnaceae* do.
- 460. *Vernonia* banks of streams from Rain-water Cr. to the Limpio
- 461. *Mimosa* hills from Rain-water Cr. to the Limpio
- 462. *Galium* do. , and banks of Rock Cr.
- 463. ----- banks of Rock Creek
- 464. *Talinum* *paniculatum* do. , fl. yellow
- 465. *Malvastrum* hills of Rock Creek

Jeff Davis County, Texas

- 466. Calliandra hills near Rock Creek June 25, 1852
- 467. Asclepiad. do. , fl green
- 468. Hossackia do. , fl. yellow
- 469. Lonicera banks of a torrent between Rock Cr. & the Limpio, 3-5 ft. tall
- 470. Cerasus do. , 3-7 ft. tall
- 471. Rhus do.
- 472. Eriogonum do.
- 473. Opuntia do. , 2-4 ft. tall
- 474. grass hillsides at head of the Limpio, in small tufts
- 475. Pentstemon valley at head of the Limpio, 2-3 ft. tall
- 476. Asclepias prairie-dog town at head of Limpio, 1-2 ft. tall
- 477. Solanum prairie at head of Limpio
- 478. Mamillaria do. , simple
- 479. Euphorbia do.
- 480. Sphaeralcea do.
- 481. Solidago in thickets at head of the Limpio
- 482. Compositae prairie-dog towns at head of Limpio June 26, 1852
- 483. Linosyris do.
- 484. Teucrium do.
- 485. Ranunculus In the Limpio
- 486. Senecio hillsides on the Limpio
- 487. Salvia pebbly bed of the Limpio, in large bunches, 1-2 ft. tall
- 488. Fendlera mountain-sides on the Limpio, 2-3 ft. tall, much branched
- 489. Aristolochia do. ,
- 490. Opuntia do. *O. Kleiniae DC, Fl. 4, 730*
- 491. Tragia do.
- 492. Juglans margin of the Limpio, 6-10 ft. tall, much branching
- 493. *Dusheckia texana*  
grass Valley of the Limpio
- 494. Aphora do.
- 495. ----- hillsides on the Limpio, 1-3 ft. tall

June 27th the party almost certainly left Jeff Davis County just north of its extreme east corner.

Concerning Ojo de Leon (i.e. Leon Springs), Comanche Spring (now Fort Stockton), see notes for Aug. 19-21, 1849. These are in Pecos County

- 496. Rhynchosia mountain-sides on the Limpio June 26, 1852
- 497. Euphorbiaceae do. , 2-3 ft. tall, branching
- 498. Dichondra do. , fl. yellowish white
- 499. Euphorbiaceae do. , fl. greenish white
- 500. Physalis do. , rather sweet-scented
- 501. Leguminosae do. 3-6 ft. tall, slightly branched

502. Eryngium Valley of the Limpio June 27, 1852

- 503. Cuscuta do.
- 504. Gonolobus mountain-sides on the Limpio, fl. yellow.
- 505. Boraginaceae Valley of the Limpio
- 506. Dalea do.
- 507. Compositae hills between the Limpio and Ojo de Leon
- 508. Zinnia do.
- 509. Physalis do.
- 510. Cuscuta valley of the Limpio
- 511. Oenothera hills between the Limpio and Ojo de Leon
- 512. Mammillaria do. , fl. pink or light purple
- 513. Cereus do.
- 514. Cooperia do. , June 28, 1852
- 515. Cruciferae do. , among high grass
- 516. Gaura do.
- 517. grass plains betw. the Limpio and Ojo de Leon
- 518. Cevallia do.
- 519. Polygala hills at Leon Springs
- 520. grass hills near Leon Spr., prairies in small tufts

521. Euphorbiaceae prairies Leon Sp. to Comanche Spring June 29, 1852

- 522. <sup>Boerhaavia linearis</sup> Nyctaginac. stony hills at Comanche Springs
- 523. Abutilon do.
- 524. Vesicaria do.
- 525. Hoffmannseggia do. , fl. sweet scented

All Pecos County, Texas.

Comanche Spring is present Fort Stockton  
the camps at Escondido Springs and on Escondido Creek are  
about 20 miles and 29 miles east of Comanche Spring.  
See notes for Aug. 16-19th, 1849.



- 526. Hedyotis stony hills at Comanche Springs June 29, 1852
- 527. Dalea do. , fl. purple
- 528. *Selenicarpus diffusus*  
Nyctaginac. do,
- 529. Lythraceae margin of Comanche Spring
- 530. Samolus do.
- 531. Hydrocotyle in Comanche Spring
- 532. Abutilon hills near Comanche Spring
- 533. " do.
- 534. Cuscuta margin of Comanche Spring
- 535. Chara in Comanche Spring
- 536. Rutosma hills between Comanche Spr. and Escondido Spring
- 537. Linosyris prairies between Comanche Spr. and Escondido Spr. June 30, 1852
- 538. Echinocactus rocky ledges at Escondido Creek
- 539. Gentianaceae Escondido Creek
- 540. Boraginaceae hills at Escondido Creek
- 541. Scrophulariac. do.
- 542. Euphorbia do.
- 543. Physalis do.
- 544. Cucurbit. do.
- 545. Eriogonum do.
- 546. Micromeria do.
- 547. Euphorbia valley at Escondido Creek
- 548. Malva do.
- 549. Malvaceae plains from Escondido Creek to the Pecos
- 550. Heliotropium do.
- 551. Gilia *regidula acerosa* do.
- 552. Zinnia do.
- 553. Malvaceae do.
- 554. -----? do. , 1-2 ft. tall
- 555. Cassia do.
- 556. PHYSALIS do. , fl. yellow

probably  
 (as both)  
 1 of these is type  
 of *S. lepidota* var  
*Sagittataefolia* (det. no 1351)

~~The wagon-road crossed the Pecos in the vicinity of the present town of Iraan and went down the east side of the Pecos River to Live Oak Canyon near old Fort Lancaster. This east bank is in northwestern Crockett County, Texas and along<sup>A</sup> doubtless, were collected the plants listed under July 1st and 2nd.~~

Collections of July 1 & 2 along Pecos River Valley on road betw. Iraan & Sheffield, Pecos County

- 557. Leucophyllum hills from Escondido Creek to the Pecos, fl. purple July 1, 1852
- 558. grass Valley of the Pecos
- 559. Compositae do.
- 560. Bgrass do.
- 561. *Heliotropium confertum*  
Boreginaceae hills of the Pecos , fl white
- 562. Dalea do. , fl. yellow
- 563. Cuscuta valley of the Pecos
- 564. Compositae margin of the Pecos in dense patches
- 565. Palafoxia stony hills on the Pecos, fl. white or very light purple
- 566. Solanum among rocks on the Pecos, ascending by bushes 1-2 ft. high
- 567. Perezia among rocks on the Pecos, fl. purple
- 568. Oenothera in valleys on the Pecos , in large patches
- 569. Cucurbit. Valley of the Pecos
- 570. Chenopodium *lytoid* Bottom of the Pecos
- 571. Hoffmannseggia stony hills of the Pecos, many stems from the root
- 572. do. do.
- 573. Cuscuta rocky branches along the Pecos July 2, 1852
- 574. " stony hills along the Pecos
- 575. Dalea do.
- 576. Ionidium do.
- 577 Compositae do.
- 578. Euphorbia do.
- 579. " do.
- 580. Samolus margin of a spring on the Pecos
- 581. Umbelliferae do. , 1-2 ft. tall
- 582. " do. , 6-8 ft. tall
- 583 Pentstemon on rocky ledges along the Pecos
- 584. Gilia pebbly bed of a torrent descending to the Pecos
- 585. Euphorbia alluvial banks of the Pecos
- 586. Diconara live-oak grove on the Pecos
- 587. Baccharis bottom of the Pecos, much branching from root.
- 588. Sida stony hills of Live-oak Creek. *Crockett County!*

*end of list*

"July" Big Bend of Devils River, Arctostaphylos Gray

July 4, 1852 Cellis Pallida

July 6, 52 San Pedro River Gnaphalium.

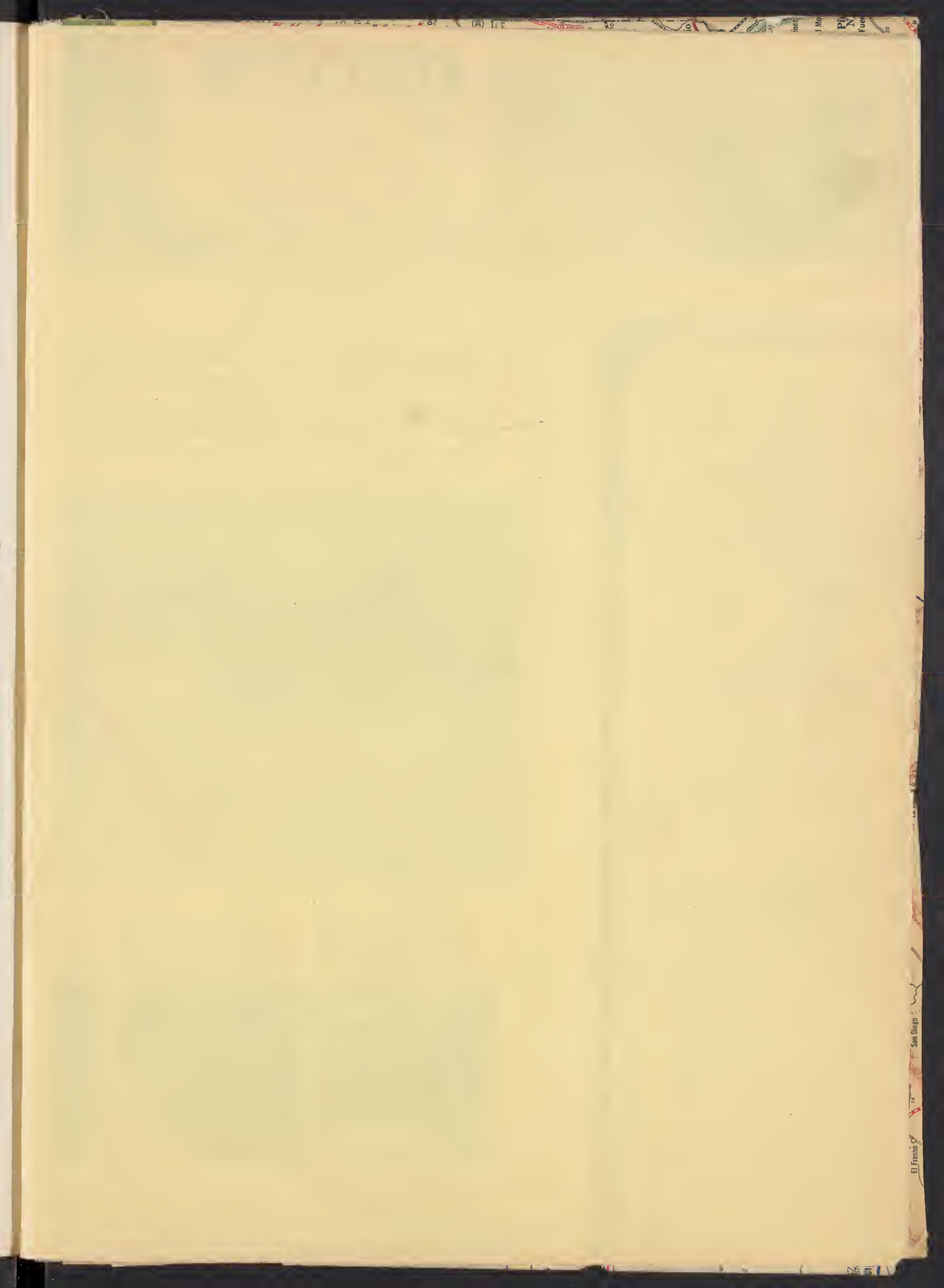
Dryopteris hydropteroides bed of San Pedro River.

July 8, 1852 Trichloris plumifera (no 2025) from Bottom of Devils River at the Laves Ford

July 8 52 Painted Caves, Chenop. leptophyllum var. trich. Desv. et

July 9, 1852, Cellis pallida (no. 1858) from Painted Creek (= ? Pedroa Punta Cr of May 17, 1852)  
Cimarron

July 13, '52 bottom of the

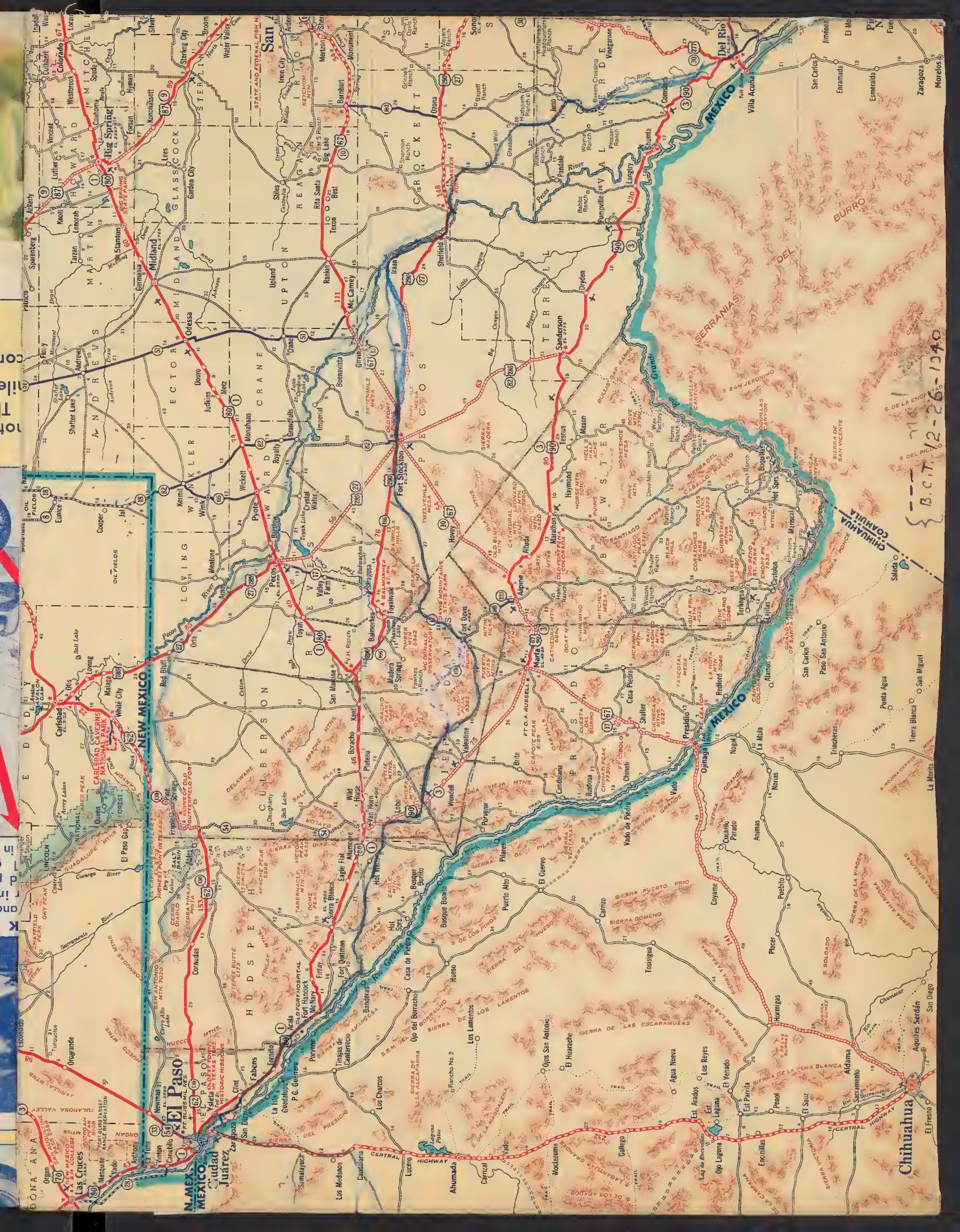


inez J Me P N Fue 20

San Diego

El Fresno





B.C.T. 12-26-1940

Chihuahua

El Paso

Juarez

San Antonio

Chihuahua

Milage by Emory in Rep. Mex. Bound. 1: 135

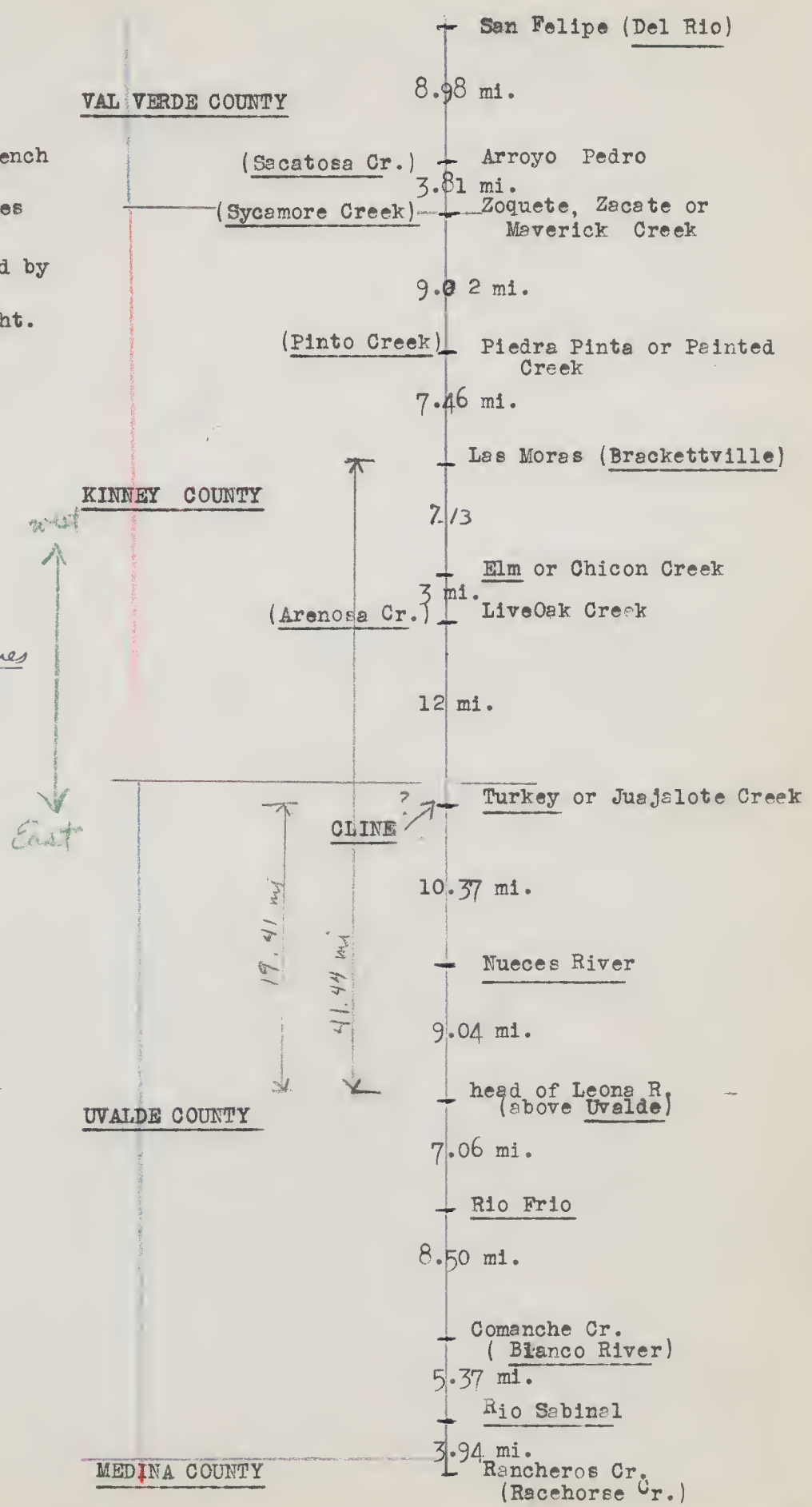
San Elizario	59.8 mi. to	El Paso
last camp on Rio Grande	31.2 m. to	Hudspeth
Eagle Springs	19.7 m. to	Chisnol
Van Horn Wells	32.8 m. to	
Dead Mans Hole	13.5 m. to	
Barrel Spring	18.4 to	Jeff Davis
Fort Davis	28 m. to	
Varela Springs	33.8 to	
Leon Springs	8.8 to	
Comanche Springs	19.4 m. to	
Ojos Escondidos	8.5 to	Pecos
Arroyo Escondido	16.6 to	
First camp on Pecos	38.2 m. to	
Ferry of Pecos	7.2 to	
Live Oak Creek	30.4 m. to	Crockett
Howard Springs	44 m. to	
First camp on San Pedro (Devils) river	19.5 m. to	
2nd crossing of San Pedro	18.3 m. to	
Palos Blancos	15.7 m. to	
Painted Caves	2.5 m. to	Val Verde
First crossing of of San Pedro	10.2 m. to	
San Felipe	8.8 m. to	
Arroyo Pedro	3.8 m. to	
Zoquete Creek	8.6 m. to	
Piedra Pinta	7 m. to	
Las Moras (Fort Clark)	7.1 m. to	Kinney Co.
Elm Creek	15.2 m. to	
Turkey Creek	10.7 m. to	
Nueces	9 m. to	
Head of Leona	6 m. to	Ward
Rio Frio	8.4 m. to	
Comanche Creek	5 m. to	
Sabinal	3.9 to	
Rancheros Creek	8.3 m. to	
Rio Seco (Dhanis)	15.2 m. to	Medina
Quihi	10m. to	
Castroville	18 m. to	
Leon	6.5 to	
San Antonio		Bexar



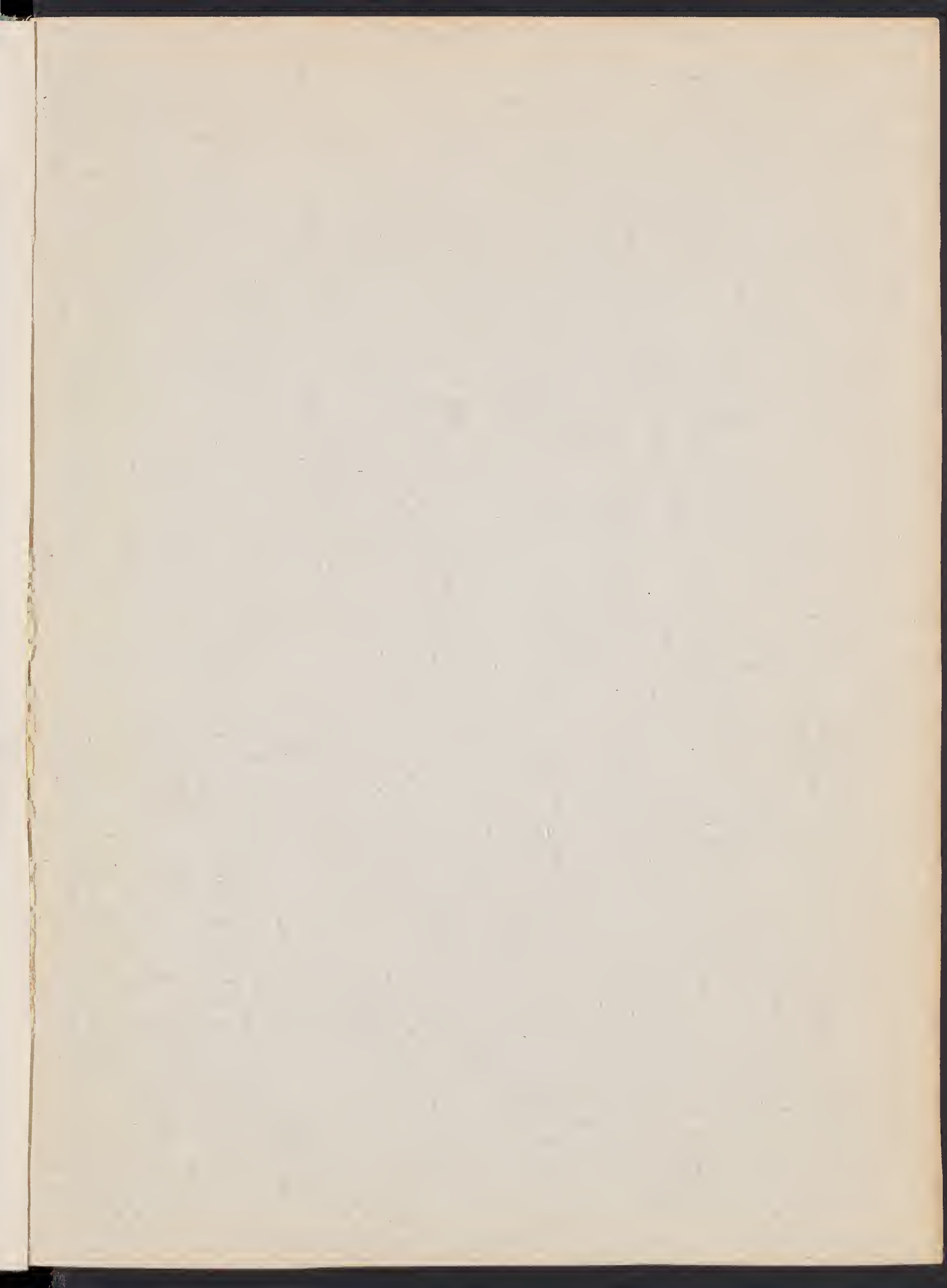
WESTERN HALF OF THE ROUTE between SAN ANTONIO and DEL RIO (San Felipe).

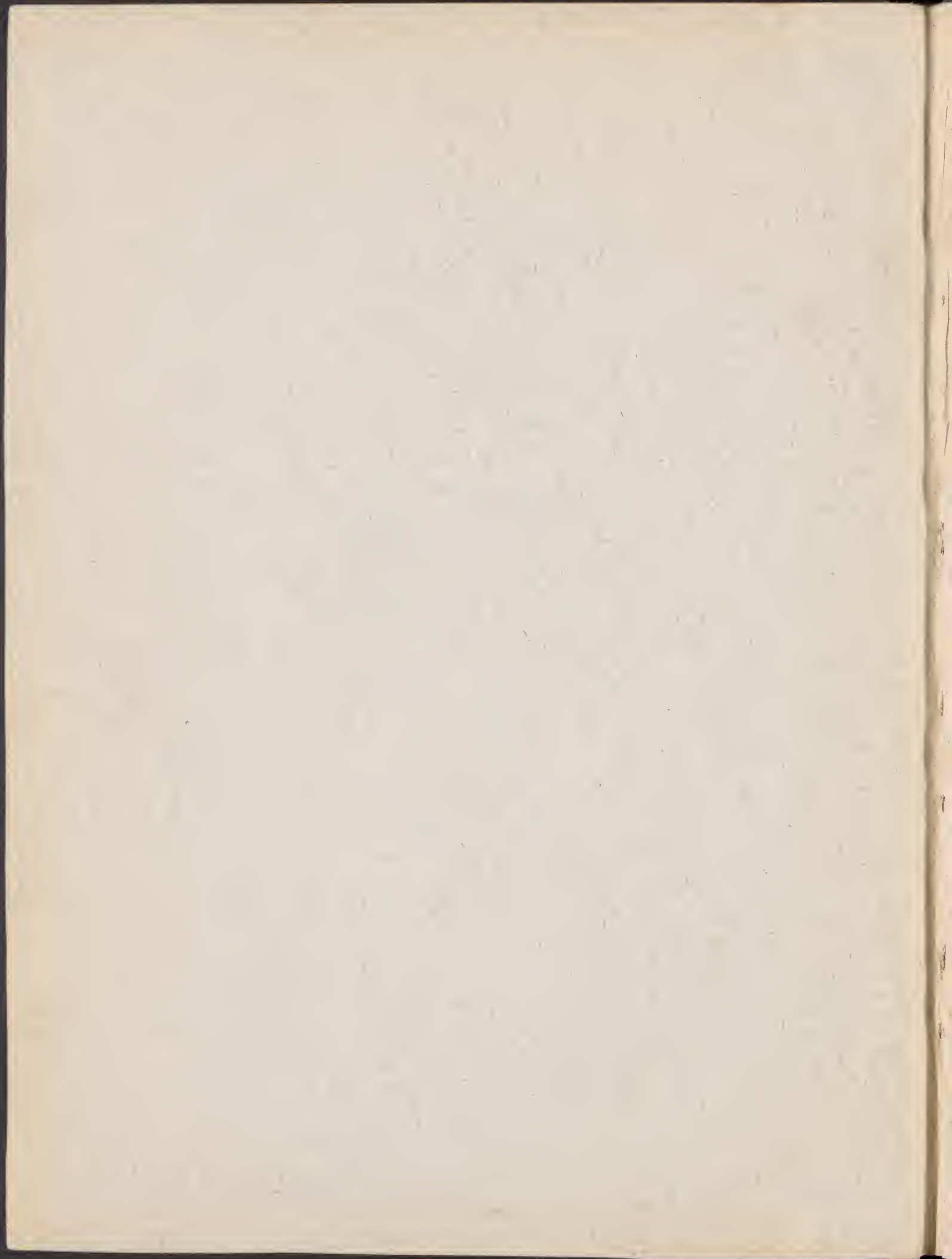
Milages given by French and Johnston and names of camping places used by these men and by Wright.

*underscoring names are those found on modern maps.*









1307A



