

MANCOS CANYON

by Marilyn Colyer

ROVE II

Shack House (Armstrong Homestead)

House (Armstrong Farmstead)
along 1st flood plain (~~down~~ to Floodplain II, Dike flood plain)

		Diameter = (inches)				
DATE		< 1"	1 - 3"	3-6"	6-10"	> 10"
July 26, 1989	POPULUS ANGUSTIFOLIA Lower end, along river shore - west side East of river, along edge of lagoon (little S) S end East side of river on bank old beaver chews middle of floodplain dry bank of 2nd terrace with drainage	(2-3') 12 seedlings 1 46 before 2 old lagoon rows forming straight line + 4, + 4 + 26 8 1-8 ft	 72 15-15' T	Two toned willows in 15' x 30' patch and more lot of two toned willows #4 3, 14-6 28' 15-18' T	 20' T	
	POPULUS FREMONTII East of river along edge of lagoon (little S) East of river, south end dry bank of 2nd terrace	(3-4') 3 seedlings 1 7 seedlings (2 yr old) 1 #	(8') 5, 1, 1, 16 7 1 1 1	(14') 1 1 4 5	(23') 1 1 11 (1) 5	 6 (12") 8
	POPULUS ACUMINATA East of river along edge of little S Lagoon East of river, south end		1	1		

Continued
on p2 of 2

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

ROVE

II continue

by Marilyn Colyer

finished grove to Buckthorn area

Diameter - (inches)

DATE		< 1"	1 - 3"	3-6"	6-10"	> 10"
7/26/89						
	POPULUS ANGUSTIFOLIA East of river by Oxbow Lake peninsula/island btw river + Oxbow	8 seedlings 150 "	III	III		35-43
	all E of river north end of oxbow lagoon E side of river	12 10+23 52 seedlings				
	New grove P.I. North of lagoon area, E side of river	III 4 14 III 5 18 20 23, 25 seedling number	III III (II)	25 (1) 1 15, 2 22, 2 18	2+2 1+8 +4, 2 6 15	1 (12) III III III III III
	Next grove above similar to B II - no big trees					
	Under Armstrong Homestead, west of river	12 number				III
	No new seedling west of river	24	4	16	12 ft tall	III
	8 to 10 FT tall Sandbar willow - Thick	385	+10	23	28, 23, 18, 20 1 each	21
	POPULUS FREMONTII East of river by Ox bow Lake	11 seedlings 12 "				
	Peninsula/island btw river + oxbow	2+12	5+6	11		
	all E of river west of river, middle of floodplain by shore	2		1 alone		
	north end of oxbow lagoon E side of river	5 seedlings				
	New grove? N of Lagoon Area E side of river		III II 7	III III 8, 3	1 1	
	Younger trees are fremonti		(II)	1, 3	2	
	POPULUS ACUMINATA Under Armstrong Homestead, west of river	8 seedlings number		4	1	
			5 of Armstrong		1 alone	
	No trees over 12-14" diam x 30' tall					
	all under Armstrong Homestead					

COTTONWOOD TREE INVENTORY -- 1987

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□ - Dead
○ = Seedling

GROVE

North end of Stevens Field, North end is along steep river bank, gradually opens out to large gravel bar (Morel Bar) with old trees. Only West side of river surveyed; old channel with old trees 15-200 ft. east of river.

Diameter - (inches)

DATE		< 1"	1 - 3"	3-6"	6-10"	> 10"
10/4/87	POPULUS ANGUSTIFOLIA					
a.	North end of Stevens Field, along river bank Severely beaver chewed old stems 4-5" dia, Multistemmed; Sand bar willow associated.	40 (3' T)	27 (8' T)	1 (11' T) □		
b.	Steep 25' high riverbank	0	0	0	0	0
c.	West of old Stevens shed; gravel bar expanding	15	12 [15]			
d.	Expanded gravel bar (200' wide)	39	58 [37]	39 [45]		11", 11", 7"
e.	River level sand bar; 4' above low water level	16	1	14'		3
	Dead trees may be either <i>P. angustifolia</i> or <i>P. acuminata</i> as both have whitish, grooved bark. These trees died within last five years. Old beaver chewing on west side of expanded gravel bar - stumps up to 8" dia; beaver chewing along river, stumps 4-6" dia. large stand (10' x 50' L) of <i>Apocynum cannabinum</i>					
	TOTAL	110	98 [52]	40 [46]	0	3 [3]
10/4/87	POPULUS FREMONTII					
b.	Steep 25' high riverbank; beaver chewed on 5" dia red stem willow associated	12	25 (5-10' T)	7		24, 15, 13, 15, 15, 15
c.	West of old Stevens shed, gravel bar expanding <i>Asclepias speciosa</i> patch (25' square)	11	18			11", 11", 24", 15", 13", 36", (45' T)
d.	Expanded gravel bar (200 feet wide)	71	89 (8-10' T)	58 (20-25' T)	9	
e.	River level sand bar; 4' above low water level	(31) (17)	13			
	East side of river, at south end of grove	6	15	13	2	
	TOTAL	131	160	78	9	6
	Minus E. side trees	6	15	13	2	0
	Park trees	125	145	65	7	6
	<i>P. fremontii</i> mostly within 50' of river					
10/4/87	POPULUS ACUMINATA					
c.	West of old Stevens shed	4	5	1	1	
d.	Expanded gravel bar (200 feet wide)	11	25	13	10	23, 11, 15
	TOTAL	15	30	14	11	3
	Expanded bar has old oxbow (boxed to west, mostly filled in). It is here that the only known park's Morel Mushrooms were found in 1985. This old oxbow is mostly					

COTTONWOOD TREE INVENTORY - 1987

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GROVE: North end of Steven's Field, north end is along steep river bank, gradually opens out to large gravel bar (Morel Bar), with old trees. Only west side of river surveyed; old channel with old trees is 200 ft. east of river.

		Diameter (inches)				
DATE		< 1"	1-3"	3-6"	6-10"	>10"
10/4/87	<u>POPULUS ANGUSTIFOLIA</u>					
a.	North end of Steven's Field, along river bank; severely beaver chewed, old stems 4-5" dia., multi-stemmed; sand bar willow associated	40 (3'T)	27 (8'T)	1 (11'T)		
b.	Steep 25' high riverbank	0	0	0	0	0
c.	West of Old Steven's Shed; gravel bar expanding	15	12 [15]			
d.	Expanded gravel bar (200' wide)	39	59 [37]	39 [45] (14'T)		11", 11" 7", [3]
e.	River level sand bar; 4' above low water level.	16	1			
	TOTAL =	110	98 [52]	40 [46]	0	3 [3]
	Dead trees may be either P. angustifolia or P. acuminata as both have whitish, coarsely grooved bark. These trees died within the last 5 years. Old beaver chewing on west side of expanded gravel bar, stumps up to 8" dia., beaver chewing along river, stumps 4-6" dia., large stand (10' x 50'L) of <u>Apocynum cannabinum</u>					
10/4/87	<u>POPULUS FREMONTII</u>					
b.	Steep 25' high riverbank; beaver chewed on 5" dia. red stem willow associated	12	25 (5-10'T)	7		
c.	West of Old Steven's Shed, gravel bar expanding, Asclepias speciosa patch (25' sq.)	11	18			11", 11" 24", 15"
d.	Expanded gravel bar (200' wide)	71	89 (8-10'T)	59 (20-25'T)	9	13", 36" (45'T)
e.	River level sand bar, 4' above low water level	(31) (1'T)	13			
	East side of river, at south end of grove	6	15	13	2	
	TOTAL =	131	160	78	9	6
	minus east side trees	6	15	13	2	0
	(P. fremontii mostly within 50' of river) park trees =	125	145	65	7	6
10/4/87	<u>POPULUS ACUMINATA</u>					
c.	West side of Old Steven's Shed	4	5	1	1	
d.	Expanded gravel bar (200' wide)	11	25	13	10	23", 11" 15"
	TOTAL =	15	30	14	11	3
	Expanded bar has old oxbow (bowed to the west, mostly filled in). It is here that the only known park's Morel Mushrooms were found in 1985. This old oxbow is marshy and wet in the spring with sedges as understory.					

COTTONWOOD TREE INVENTORY - 1987

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GROVE: North end of Steven's Field, north end is along steep river bank, gradually opens out to large gravel bar (Morel Bar), with old trees. Only west side of river surveyed; old channel with old trees is 200 ft. east of river.

DATE		Diameter (inches)				
		< 1"	1-3"	3-6"	6-10"	>10"
10/4/87	<u>POPULUS ANGUSTIFOLIA</u>					
a.	North end of Steven's Field, along river bank; severely beaver chewed, old stems 4-5" dia., multi-stemmed; sand bar willow associated	40 (3'T)	27 (8'T)	1 (11'T)		
b.	Steep 25' high riverbank	0	0	0	0	0
c.	West of Old Steven's Shed; gravel bar expanding	15	12 [15]			
d.	Expanded gravel bar (200' wide)	39	59 [37]	39 [45] (14'T)		11", 11" 7", [3]
e.	River level sand bar; 4' above low water level	16	1			
	TOTAL =	110	98 [52]	40 [46]	0	3 [3]
	Dead trees may be either P. angustifolia or P. acuminata as both have whitish, coarsely grooved bark. These trees died within the last 5 years. Old beaver chewing on west side of expanded gravel bar, stumps up to 8" dia., beaver chewing along river, stumps 4-6" dia., large stand (10' x 50'L) of <u>Apocynum cannabinum</u>					
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b.	Steep 25' high riverbank; beaver chewed on 5" dia. red stem willow associated	12	25 (5-10'T)	7		
c.	West of Old Steven's Shed, gravel bar expanding, Asclepias speciosa patch (25' sq.)	11	18			11", 11" 24", 15"
d.	Expanded gravel bar (200' wide)	71	89 (8-10'T)	59 (20-25'T)	9	13", 36" (45'T)
e.	River level sand bar, 4' above low water level	(31) (1'T)	13			
	East side of river, at south end of grove	6	15	13	2	
	TOTAL =	131	160	78	9	6
	minus east side trees	6	15	13	2	0
	(P. fremontii mostly within 50' of river) park trees =	125	145	65	7	6
10/4/87	<u>POPULUS ACUMINATA</u>					
c.	West side of Old Steven's Shed	4	5	1	1	
d.	Expanded gravel bar (200' wide)	11	25	13	10	23", 11" 15"
	TOTAL =	15	30	14	11	3
	Expanded bar has old oxbow (bowed to the west, mostly filled in). It is here that the only known park's Morel Mushrooms were found in 1985. This old oxbow is marshy and wet in the spring with sedges as understory.					

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GROVE: North end of Steven's Field, north end is along steep river bank, gradually opens out to large gravel bar (Morel Bar), with old trees. Only west side of river surveyed; old channel with old trees is 200 ft. east of river.

Diameter (inches)

DATE		< 1"	1-3"	3-6"	6-10"	>10"
0/4/87	<u>POPULUS ANGUSTIFOLIA</u>					
a.	North end of Steven's Field, along river bank; severely beaver chewed, old stems 4-5" dia., multi-stemmed; sand bar willow associated	40 (3'T)	27 (8'T)	1 (11'T)		
b.	Steep 25' high riverbank	0	0	1 0	0	0
c.	West of Old Steven's Shed; gravel bar expanding	15	12 15			
d.	Expanded gravel bar (200' wide)	39	59 37	39 45 (14'T)		11", 11" 7", 3
e.	River level sand bar; 4' above low water level	16	1			
	TOTAL =	110	98 52	40 46	0	3 3
	Dead trees may be either P. angustifolia or P. acuminata as both have whitish, coarsely grooved bark. These trees died within the last 5 years. Old beaver chewing on west side of expanded gravel bar, stumps up to 8" dia., beaver chewing along river, stumps 4-6" dia., large stand (10' x 50'L) of <u>Apocynum cannabinum</u>					
0/4/87	<u>POPULUS FREMONTII</u>					
b.	Steep 25' high riverbank; beaver chewed on 5" dia. red stem willow associated	12	25 (5-10'T)	7		
c.	West of Old Steven's Shed, gravel bar expanding, Asclepias speciosa patch (25' sq.)	11	18			11", 11" 24", 15"
d.	Expanded gravel bar (200' wide)	71	89 (8-10'T)	59 (20-25'T)	9	13", 36" (45'T)
e.	River level sand bar, 4' above low water level	31 (1'T)	13			
	East side of river, at south end of grove	6	15	13	2	
	TOTAL =	131	160	78	9	6
	minus east side trees	6	15	13	2	0
	(P. fremontii mostly within 50' of river) park trees =	125	145	65	7	6
0/4/87	<u>POPULUS ACUMINATA</u>					
c.	West side of Old Steven's Shed	4	5	1	1	
d.	Expanded gravel bar (200' wide)	11	25	13	10	23", 11", 15"
	TOTAL =	15	30	14	11	3
	Expanded bar has old oxbow (bowed to the west, mostly filled in). It is here that the only known park's Morel Mushrooms were found in 1985. This old oxbow is marshy and wet in the spring with sedges as understory.					

COTTONWOOD TREE INVENTORY -- 1987

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☐ = dead

ROVE II continued

Above Gully II

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
	POPULUS ANGUSTIFOLIA					
	Large floodplane with nothing, except along shore					
	East of river	3	10			
	West of river	17	☐ 8 beaver chewed			
	Upper end	1	3		1	
	TOTAL =	21	☐ 8 13		1	
	POPULUS FREMONTII					
	One hundred feet from river, west side	3,	5 in clusters			
	TOTAL =	3	5			
	POPULUS ACUMINATA					

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

by Marilyn Colyer

☐ = dead

OVE II continued

Gully III and south of scattered stands

Diameter - (inches)

ATE		7/26/89	Diameter - (inches)				
			< 1"	1 - 3"	3-6"	6-10"	> 10"
• POPULUS ANGUSTIFOLIA							
In old lagoon, along sheer bank			10	9	2	1	
Upper end, outwash of Gully II, (in clusters by road)			43				
East of river, on island			2				
TOTAL =			55	9	2	1	
Notes: Other plants in area; two-toned willow, Iva xanthifolia, mullien, conyaa canadensis.							
POPULUS FREMONTII							
Upper end, outwash of Gully II			5				
Seedling along shore			1				
East of river			3	13	5		
TOTAL =			9	13	5		
POPULUS ACUMINATA							

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

by Marilyn Colyer

☐ = dead

OVE II Continued

Finished grove to Buckthorn area

		Diameter - (inches)				
ATE	7/26/89	< 1"	1 - 3"	3-6"	6-10"	> 10"
	POPULUS ANGUSTIFOLIA					
	East of river, by Oxbow Lake	158 seedlings				
	Peninsula / island between river and Oxbow Lake	12	5	3		
	North end of oxbow lagoon, east side of river	52 seedlings				
	NEW GROVE I	33				
	North of lagoon area					
	East side of river	71	19	45 ☐	38 ☐	9 1 (12")
	Riverbar	23	25 seedlings			35-45' T
	Under Armstrong Homestead, west of river	36	14	16	1 sick	3 (42') 4 ☐
	Notes: see other side of page. TOTAL =	385	63	64 ☐	39 ☐	17 ☐
	POPULUS FREMONTII					
	East of river, by Oxbow Lake	23 seedlings				
	Peninsula/island between river and Oxbow Lake	14	11	11		
	West of river, middle of flood-plane by shore			1 alone		
	North end of Oxbow lagoon, east side of river	5 seedlings				
	NEW GROVE I					
	East side of river, north of lagoon area		14	23	4	
	Riverbar	8 seedlings				
	West side of river, under Armstrong Homestead			4	1	
	South of Armstrong Homestead				1 alone	
	TOTAL +	50	25	39	6	
Notes: Younger trees are fremontii; no trees over 12-14" diameter x 30' tall, except right under the Armstrong Homestead.						

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

ROVE II

by Marilyn Colyer

☐ - dead

Sheek House (Armstrong Homestead)

along 1st flood plain to Floodplain II, (Dike flood plain)

Diameter = (inches)

DATE	7/26/89	< 1"	1 - 3"	3-6"	6-10"	> 10"
	POPULUS ANGUSTIFOLIA	1'-8'T.	9-15'T.	15-18'T	20-25'T	
	Lower end, along river shore - west side	3	(two	toned willows in		
			15' x 30' patch	and more.)		
	East of river along edge of lagoon (little S)	12 seedlings				
	South end, east side of river: a. On bank	2	6	6 (lots of two		
	Old beaver chews			toned willows)		
	b. Middle of flood-plain, between 2 old lagoon rows making straight lines.	80	13 [3]	5 [22]	12	1
	c. By bank of 2nd terrace, north of drainage	8	2	2	7	2
	TOTAL =	25	21 [3]	13 [22]	19	3
	POPULUS FREMONTII					
	lower end, along river shore - west side?	3-4'T	8'T	14'T	23'T	
		5	23	1	1	
	East of river along edge of lagoon (little S)	3 seedlings				
		1	7			
	East of river, southeast	7 seedlings (2 yr. old)				
		25	21	20 [2]	9	
	a. By bank of 2nd terrace		1	4	7 [1]	6 (12/8)
	TOTAL =	36	29	24 [2]	16 [1]	14
	POPULUS ACUMINATA					
	East of river along edge of little S lagoon		1			
	East of river, south end			1		
	TOTAL =		1	1		

7/19/87

Mancos River

1 1/2 mi

~~Brace~~ ~~III~~ ~~III~~

(E of timbered back to river btw Field I + II N)

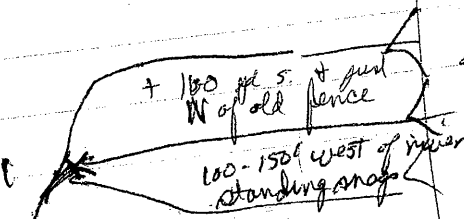
cut 2' down into old river gravels
 eating into E bank, large masses of seed fallen into river
 2 pools, 1 w/ 200 minnows - 3/4" L, landlocked
 1 w/ 800-1000 minnows 3/4" L, in flow
 1 w/ 25 minnows 3/4" L, landlocked
 ca 6-8 other pools on down to old fence

Scirpus validus - small area
Papulus fremontii < 1" dia
 III ca 3'

(across river)

III
 III [] III (20-25' T)

What is *Astragalus* (sp?) in drainage or arroyos? fine leaved small
Populus angustifolia III ca 3'
 1 (cow eaten)



(across river)

100 yd south, west of river
 Flood plain

100 yds down, lush grass, no trees

severely cow eaten, 3' tall, only 1, 2' tall
 30 on terrace brink, top broken out
 double trunk edge of drainage
 1' (15-20')

(1) 19
 (2) 19

30 sprouts

III

on east side

tomato along upper edge

Grave II

Mancoos River

Mi 1/2 on up

boundary

part of river
to big patch at boundary

6-10

+10

Populus fremontii

Ed. River mi 1/2

(Sedge of I, W of river)

1-3

(8' T)

all severely cow eaten

Populus angustifolia

near side mouth

1st terrace bank

2nd terrace

S edge of Field I, E side of

" " W side of river

red stems, leaves like willow

severely eaten
10-25

3

10+1

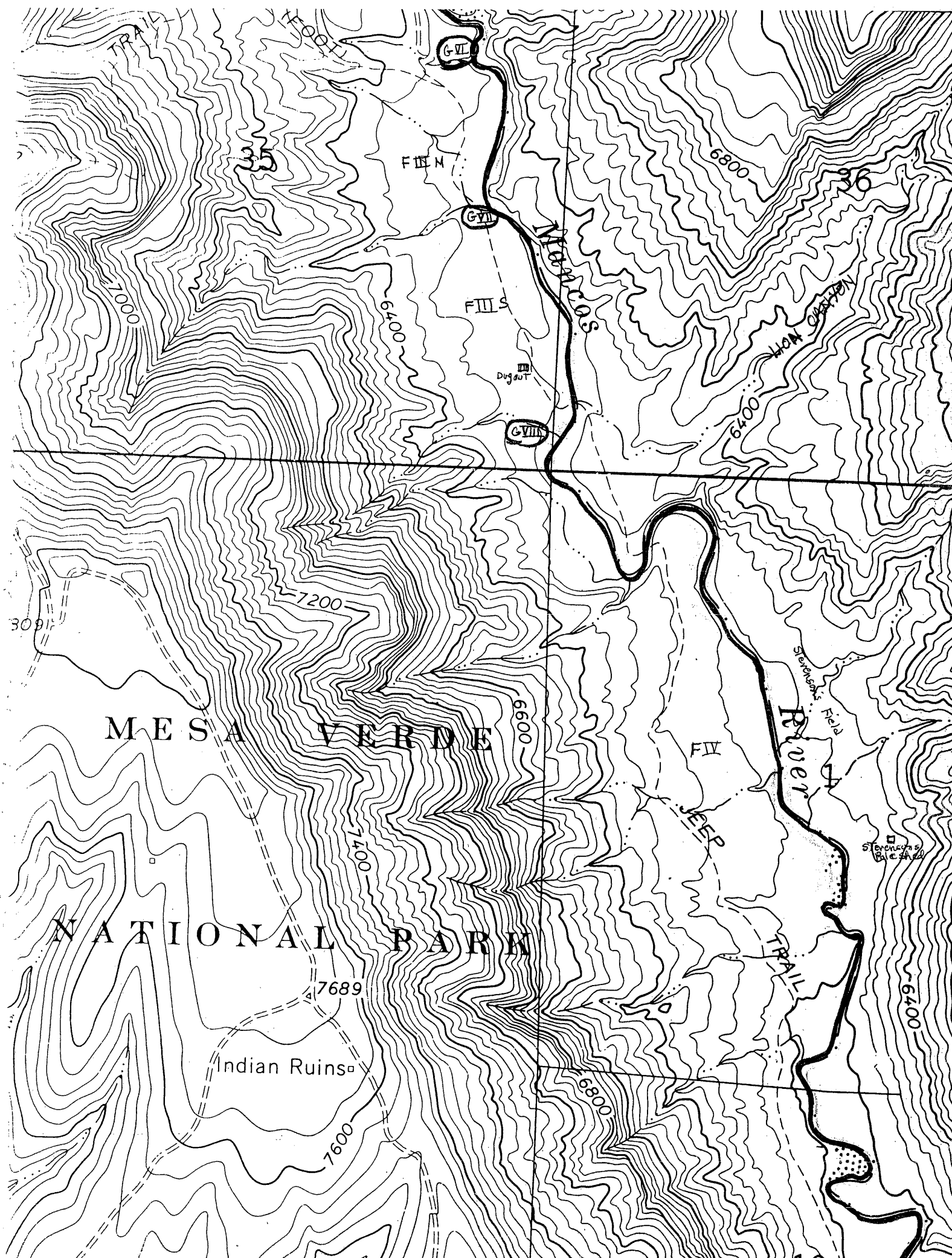
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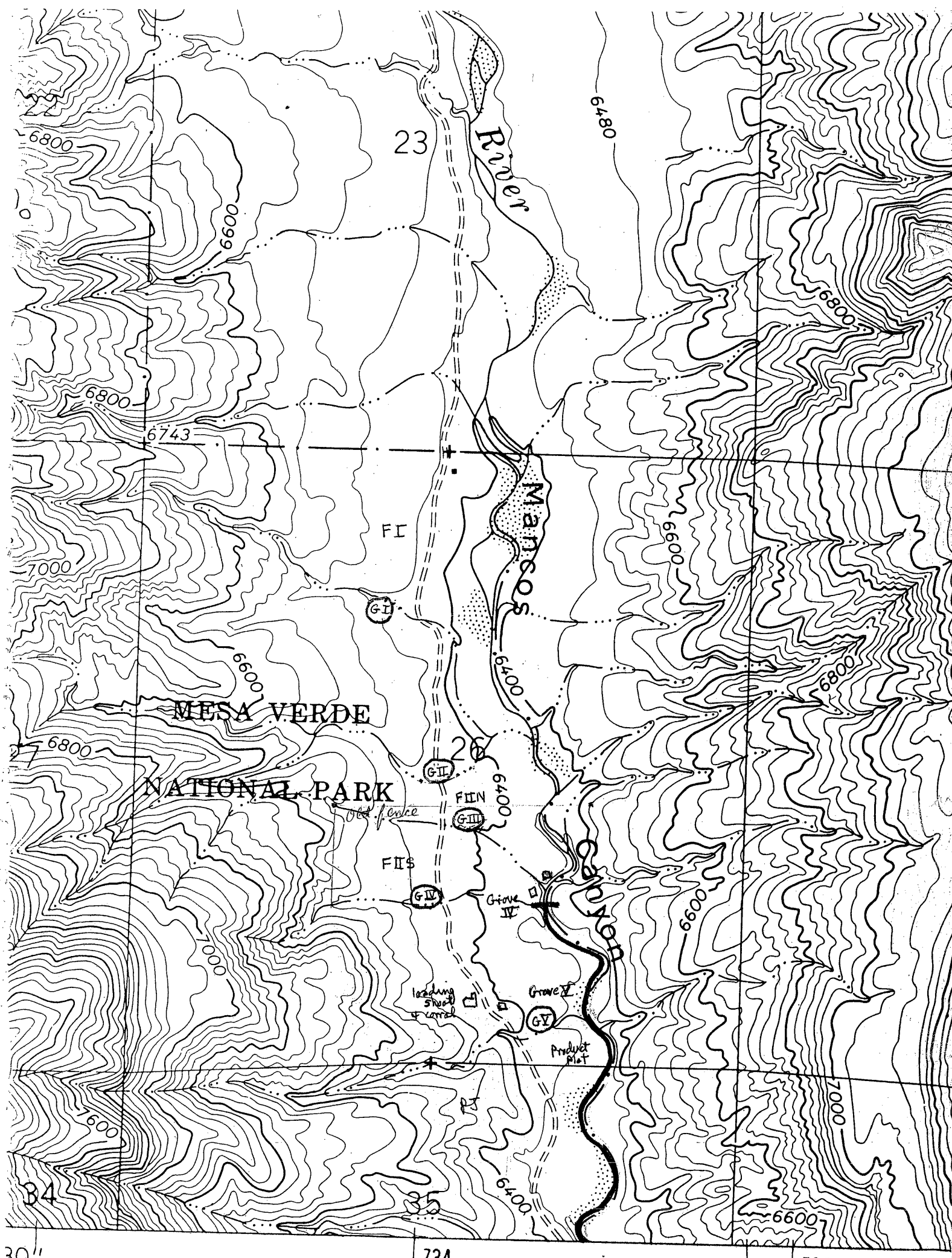
(30' T)

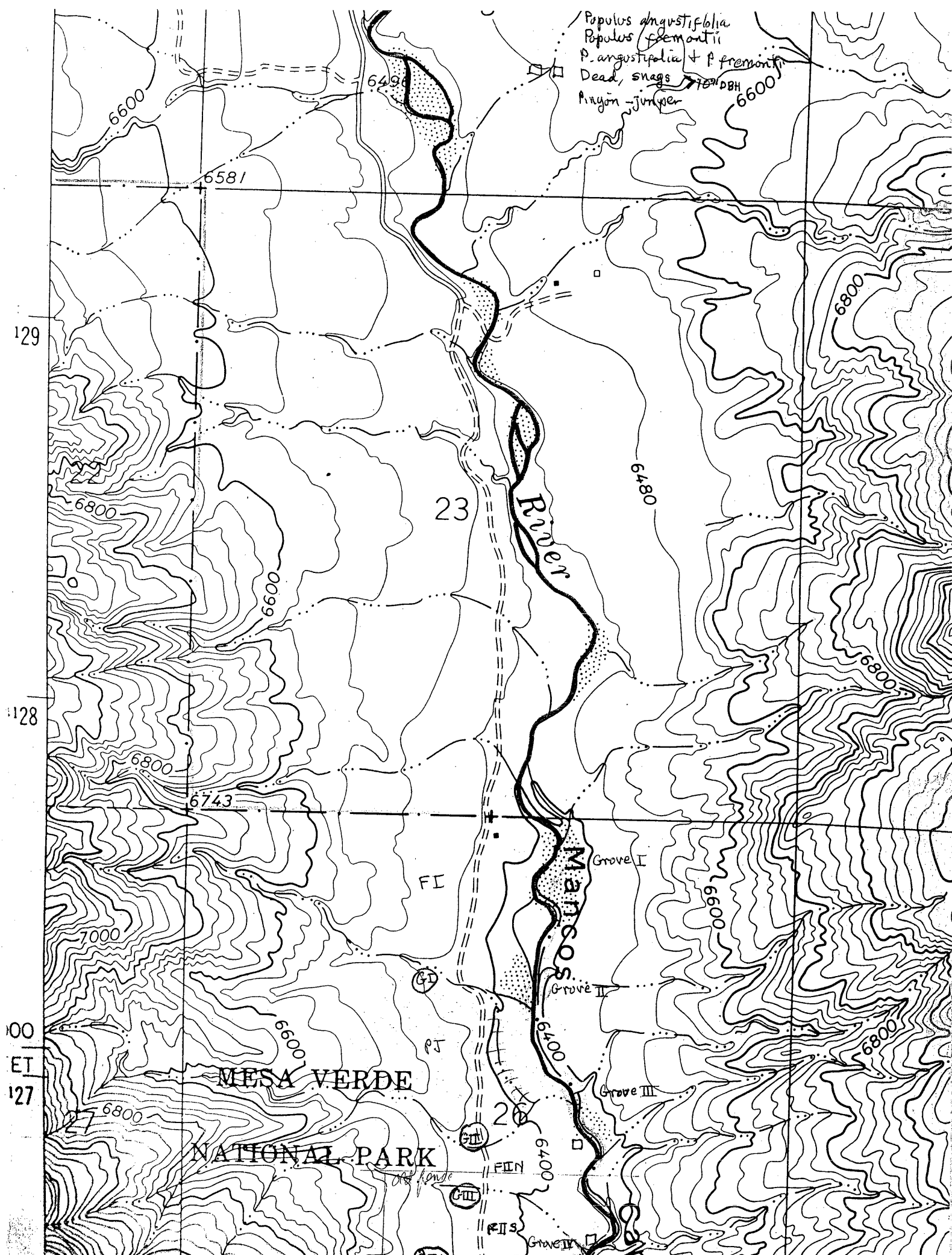
P. hybrid

S edge of Field I
W side of river

11







Grove ~~VII~~ - Mouth of Gully ~~IV~~ ~~(S)~~
middle of Field ~~III~~

DATE	POPULUS ANGUSTIFOLIA	4"	1-3	3-6	6-10	>10"
~~7/19/87~~ 4/21/87	^{floridplain} west of river, gully mouth east of river	25 (34)	8 (12)	9 (20)		1 (17" dia)

TOTAL

25

8

9

1

POPULUS FREMONTII
where?

~~7/19/87~~
4/21/87

3

TOTAL

3

Saplings adjacent river bank; 1-10 ft. from river channel
(Clone of narrow leaf poplar (3 plants), within live trees.

Grove ~~IV~~ - Along river,
east of Field III dygout.

(5)

DATE	POPULUS	FREMONT II	<1'	1-3	3-6	6-10	>10'
3/19/87	west bank of river, east of dygout		88 48	25 9	30 9		1 (30')
4/21/87	east of river		40 21	40 21	5		
		total	128 48	65 9	35 9		1
			40	40	5		
			88 48	25 9	30 9		1

Half are beaver chewed, multistemmed; presently beaver cutting has slowed.

Grove ~~IV~~ ^(V) - Field III
near 'dugout'

Cottonwood Tree Inventory 1987
(4) Mancos Canyon

Grove ~~II~~ ^(V) - Field III
near 'dugout'

Cottonwood Tree Inventory 1987
(4) Mancos Canyon

[illegible]

Grove IV^{no. in pencil}
South end of Field III

Cottonwood Tree Inventory - 1987

(S) Mancos Canyon

DATE	POPULUS ANGUSTIFOLIA	<1"	1-3"	3-6"	6-10"	>10"
7/9/87	west of river	91 (4' T)	38 (12' T)		1 (16' T)	4 (20' T)
	east of river					4 (30' T)
	Total	91	38	12	1	8
	Minus E side					4
	Park trees	91	38		1	4
u	POPULUS FREMONTII					24, 27, 29 (40' T)
a	west of river					
a	east of river			2		
	Total			2		3
	Minus E side			2		
	Park trees					3

There is a 22 inch dia stump, beaver cut > 10 years ago.
The saplings are beaver cut + multistemmed; also cattle browsed.
Twenty beaver stumps cut more than 10 years ago; one 25' dia
tree cut one-third through.
Upper end w/ grove of sand bar willow.

Grove III - Mile 1/2, timbered Cottonwood Tree Inventory - 1987
neck between Fields I + II (2) Mancos Canyon

DATE,
7/19/87

POPULUS FREMONTII

west of river, row eaten
east of river

<1" 1-3" 3-6 6-10 >10

4 (3' T)				
4	4 []	4 (20-25' T)		

TOTAL

8	4	4		
4	4	4		
4	0	0		

POPULUS ANGUSTIFOLIA

7/19/87

west of river, north end of grove 6 (3' T)

east of river, north end 2 1 1 (15-20' T)

100 yards south of above, on bank slope 51 sprouts 4 1 1

100 yards further south, above old fence 10 80 (3' T) 1
(only 1 is 7' T)

125 ft west of river, rim of Gully III

" " " " mouth slopes of " "

8

19" DBH
[3]

TOTAL

71 85 3 1 [3]

2 1 1
69 84 3 1

Flood plain 100 yards below lowest trees on east side; lush grass but NO TREES;

All trees under 3" dia are row eaten & are multistemmed.

River here is cut down two feet into old gravel; eroding dirt bank, large masses of silt on west side; small pools on west side w/ landlocked minnows (200-1000 minnows/pool); Scirpus vallis near pools.

tamarisk along upper end.

Cottonwood Tree Inventory - 1987 ¹⁶

GROVE II

Mile 1/4 up

Manacos Canyon

to Grove I by North boundary

by Marilyn Cooper

Diameter - (inches)

DATE	POPULUS	ANGUSTIFOLIA	<1"	1-3	3-6	6-10	>10
7/19/87		~~near mouth of Gully I~~		35			
7/19/87		west bank, 1st terrace, 200' from river		1			
"		" side, small drainage	4				
"		east side, across from Gully I	2	3	1	1 (30' T)	
"		west side, mouth of Gully I	80	11	and numerous red stemmed shrubs (willows?)		

TOTAL	86	50	1	1
- E. side	2	3	1	1
Park trees	84	47		

POPULUS FREMONTI

7/19/87	east of river, mile 1/4		1			
"	west of river, south edge of Field I	5	18 (3-5' T)	1 (8' T)	1	

TOTAL	5	19	1	1
	5	18	1	1

POPULUS ACUMINATA

7/19/87	west of river, south edge of Field I	2				
---------	--------------------------------------	---	--	--	--	--

TOTAL 2

All trees under 3 inches diameter are severely cut & multi-stemmed.

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

ROVE by Marilyn Colyer

East of Field IIS, along westward river curve; south to north to fence to boulder on east side of river.

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/10/87	POPULUS ANGUSTIFOLIA	14 (4' T)	6	1	Top dead	18" dia
	East of river		15			(2) 18" dia X 40' T
	West of river				down snag	(1) 12" dia X 30' T
	Total	14	21	1		1 [3]
	Mans E side	14	6	1		1
	Park trees		15			[3]
	This species reproduces readily by sprouting					
	POPULUS FREMONTIL					
	This species reproduces readily by seed.					
	POPULUS ACUMINATA					

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

by Marilyn Colyer

ROVE V

East of Production Plot, south to north

Diameter - (inches)

DATE		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/10/87	POPULUS ANGUSTIFOLIA					
	Along banks of Gully V, 150 feet from river most sprouts are on south bank of gully	26 (2.5' T)			1	
	At mouth of Gully V		4 (5' T)			
	Below mouth of Gully V East of river	8				
		33	17	4 (18' T)		2 (40' T)
8/10/87	TOTAL	67	21	4	1	2
	Minus 2 side	33	17	4		2
	Pole trees	34	4	~~2~~	1	
	Tamarisk associated with grove					
	POPULUS FREMONTIL					
8/10/87	just below mouth of Gully V (south end of Field II S.					
	standing snags w/ old beaver chaw (Not certain if Populus sp. identification of all of these trees)				standing snags	14" 16" 35 + 40'
	East of river		2 (8' T)		down snags	11'
	TOTAL		2			8
8/10/87	Minus 2 side		2			8
	POPULUS ACUMINATA					

MANCOS CANYON

adjacent + below Goosecreek
 S end of sm. drainage N of Field II ^{8/7/87} ^{South} ^{side} @ W across river

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/22/87	POPULUS ANGUSTIFOLIA Small due to rise + fall of water line + washing 12' on gravel bar bank of 1st terrace high water line TOTAL Minus E. side Park trees SM. West drainage - 10' above river E. of river	III 73 III 19 III 3 102 5 97 5 5	IV 4 V 7 II 23 16 26 7 16 9 10 7 11 7 16 1	III 12 9 2 3 9 9		1
8/23/87	POPULUS FREMONTII Bank of 1st terrace high water line E. side river - at shore line Shepherdia + tamarisk - minor tall + dense POPULUS ACUMINATA TOTAL Minus E. side Park T	II 1 1 4 1 3	III 9 4 5			

COTTONWOOD TREE INVENTORY -- 1987

Mile 2 1/4,

Big

Goose neck ca. mi 2 1/4 to south.

in loop of goose neck, north to south by Marilyn Colyer
& Pat Appelt

MANCOS CANYON

8/27/87

ⓓ = dead

⓪ = 1st year seedling

ROVE

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/27/87	POPULUS ANGUSTIFOLIA at middle of Goose necks - below w. drainage 1st river terrace dd beaver chewing on 3" stump + 10" stump; all trees under 6" dia are lush & mullet stemmed from beaver (and cattle?) feeding Salix ~~sp.~~ ^{lutea w/ red stems} 1st river terrace 106 TOTAL	5' T 21+12+4 14	8' T 18 16		1	
8/27/87	POPULUS FREMONTII 1st river terrace TOTAL	⓪ 25	21 31			
8/27/87	1-3" clusters - up to 7' stems. river has flattened trees 3' above waterline NE. of river, base of shale slope Sandbar willows POPULUS ACUMINATA two saplings w/ narrower leaf + squared base may indicate type of hybrid		13' 15' 11			

10/5/87 Manchas Canyon Cottonwood Survey W. - C. -

Populus angust
beginning N. end of Stevenson Fld.
beaver chewed
old stems 4-5" dia

41 1/2 3 36 6-10
3 6 3' 2 8' 1 11'
10 2
20 9+4
1

W sand bar mallow

steep river bank 25' Tall

West of old shed, opened out gravel bar

15

+15

+8

grove proper widest gravel bar

20, 5

13

8

4

3

12

2

11"

east side

+12

13

5

2

14'

11"

Many of these dead may be accumulated

4, 3

13

5

4

11"

Old beaver chews to W. side of gravel bar

2

4

2

3

12

3

15'

3

1

5

on lowest sandbar on river bend

16

1

22

1

3

1

2

all

Separate - Do main grove & stuff alone

[Old river channel 200 ft to E not sampled] has old trees ca 15'

~~Cannabaceae~~ Apocynum on NE facing steep river bank 10' above river + 15' down slope
lug patch

Pop fremont, east side of river

6

15

2

13

2

Pop fremont, - on lowest sandbar on river bend

(3) seed lugs

12+1

2

Pop fremont, steep river bank
beaver chewed 5" diam

25' Tall

11

(5' T-10')

red stem mallow

11

11

11

24", 15", 15"

11

11

11

36"-45"

W. of old shed w. Asclepias speciosa, small amount of tamarisk & gravel bar area opening out to sandbar

11

11

11

11

+10

+15

8.7

12+4+2

+12

5+6

12

1

+8, +6

+6, 6

8-10'

20-25'

3

2

12

4

1

5

2

1

1, 10

20, 5, 1

4, 2, 2

11", 11"

5' end of gravel bar

Pop angust became more common in opened sandbar | Sandbar is 4' above river

COTTONWOOD TREE INVENTORY -- 1987

☐ - Dead
☐ - 1st yr. seedling

MANCOS CANYON

GROVE : Adjacent and below Gooseneck by Marilyn Colyer
 S. end at small drainage, N. end of & Pat Oppelt
 Field IV; S. to dead C.W. across river.

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/27/87	POPULUS ANGUSTIFOLIA					
"	on gravel bar	73(1-2 T)	4	3		
"	bank of 1st terrace	19	2 7			
"	1st terrace, high water line	10	3			
"	small west drainage - 10' above river	5				
"	E. of river	5	7 16	9 2		1
	TOTAL	102	16 26	12		1
	Minus E. side	5	7 16	9 2		1
	Park trees	97	9 10	3		
8/27/87	POPULUS FREMONTII					
"	bank of 1st terrace	2	5			
"	1st terrace, high water line	1				
"	E. side of river - at shore line	1	4			
	Shepardia and tamarisk minor, sandbar willow 4-5' tall and danse.					
	TOTAL	4	9			
	Minus E. side	1	4			
	Park trees	3	5			
	POPULUS ACUMINATA					

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

GROVE : Mile 2 $\frac{1}{4}$ Big Gooseneck, in loop by Marilyn Colyer
of gooseneck, north to south & Pat Oppelt

☐ - Dead
○ - 1st yr. seedli

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/27/87	POPULUS ANGUSTIFOLIA					
	at middle of Gooseneck - below W. drainage	92 (5ft. T)	50 (8'T)		1	
"	1st. river terrace	14	18			
"	at top of Gooseneck, 1st river terrace		<u>16</u>			
	Old beaver chewing on 3" stump and 10" stump; all trees under 6" diameter are busy and multi- stemmed from beaver (and cattle?) feeding.					
	Salix lutea; with red stains and red leaf petioles					
	TOTAL	106	68 <u>16</u>		1	
8/27/87	POPULUS FREMONTII					
	1st river terrace	① 25	21			
"	Three feet above waterline river has flattened trees; 1 - 3" clusters; up to 7 stems.	~~10~~	~~10~~ (13'T)			
"	N.E. of river, base of shale slope; sandbar willows are dense.					
	TOTAL	① 25	31			
8/27/87	POPULUS ACUMINATA					
	1st river terrace		11 (15'T)			
	TOTAL		11 <u>1</u>			
	Two saplings with narrow leaf and squared base may indicate type of hybrid.					

COTTONWOOD TREE INVENTORY -- 1987

□ = Dead

MANCOS CANYON

ROVE: ; South end of Field III

by Marilyn Colyer

		Diameter - (inches)				
DATE		< 1"	1 - 3"	3-6"	6-10"	> 10"
7/19/87	POPULUS ANGUSTIFOLIA west of river	91(4'T)	38 1(12'T)		1(16'T)	4(20'T)
"	east of river				(20")	4(30'T)
	TOTAL	91	38		1	8
	Minus E. side					4
	Park trees	91	38		1	4
7/19/87	POPULUS FREMONTII west of river					24"27" 29"4'T
"	east of river			2		
	total			2		3
	minus E. side			2		
	park trees					3
	POPULUS ACUMINATA					
	There is a 22inch dia. stump, beaver cut > 10 years ago. The saplings are beaver cut and multistemmed; also cattle browsed. Twenty beaver stumps cut more than 10 years ago; one 25 inch dia. tree cut one-third through. Upper end with grove of sand bar willow.					

COTTONWOOD TREE INVENTORY -- 1987

☐ = Dead

MANCOS CANYON

ROVE: along river, east of field
 III dugout.

by Marilyn Colyer
 Assisted by Mary Safford

Diameter - (inches)

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
4/21/87	POPULUS ANGUSTIFOLIA					

COTTONWOOD TREE INVENTORY -- 1987

MANCOS CANYON

PROVE: Field III, near dugoutby Marilyn Colyer
Assisted by Mary Safford

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
4/21/87	POPULUS ANGUSTIFOLIA 150 yards west of river		55	1		
	POPULUS FREMONTII					
	POPULUS ACUMINATA					

COTTONWOOD TREE INVENTORY -- 1987

☐ = dead

MANCOS CANYON

PROVE: mouth of Gully VII
middle of field III

by Marilyn Colyer
Assisted by Mary Safford

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
4/21/87	POPULUS ANGUSTIFOLIA					
	west of river, gully mouth (flood plain)	25 (3't)	8 (12't)	9 (20't)		
	east of river					1 (17'di)
	total	25	8	9		1
	minus E. side park trees	25	8	9		1
4/21/87	POPULUS FREMONTII					
	west of river		3			
	total		3			
	POPULUS ACUMINATA					
	Saplings adjacent river bank; 1-10 ft. from river channel. Clone of narrow leaf yucca (3 plants) ; within big trees.					

COTTONWOOD TREE INVENTORY -- 1987

- Dead
- 1st yr. seedling

MANCOS CANYON

GROVE V : E. of production plot,
south to north

by Marilyn Colyer

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/10/87	POPULUS ANGUSTIFOLIA					
	Along banks of Gully V, 150' from river	26(2.5'T)			1	
	Most sprouts are on south bank of gully					
"	At mouth of Gully V		4(5'T)			
"	Below mouth of Gully V	8				
"	East of river	33	17	4(18'T)		2 (40'T)
	TOTAL	67	21	4	1	2
	Minus E. side	33	17	4		2
	Park trees	34	4		1	
	Tamarisk associated with grove.					
8/10/87	POPULUS FREMONTII					
	Just below mouth of Gully V (south end of Field II'S)				standing	14'
	(Not certain of Populus sp. identification of				snags	16'
	all of these trees.)					35-40'T
	Standing snags with old beaver chews					
8/10/87	East of river		2(8'T)			
	TOTAL		2			8
	Minus E. side		2			
	Park trees					8
	POPULUS ACUMINATA					

COTTONWOOD TREE INVENTORY -- 1987

- Dead
- 1st yr seedling

MANCOS CANYON

GROVE : East of Field II'S, along west- by Marilyn Colyer
ward river ~~cave~~; south to north of fence to boulder on east side of river.

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
8/10/87	POPULUS ANGUSTIFOLIA					
	East of river	14(4'T)	6	1 top dead	18"	18"
	west of river		15	down snags	18" dia x 40'	2
				down snag	12" dia x 30'	1
						tall
	TOTAL	14	21	1		1 3
	Minus E. side	14	6	1		1
	Park trees		15			3
	This species reproduces readily by sprouting.					
	POPULUS FREMONTII					
	This species reproduces readily by seed.					
	POPULUS ACUMINATA					

COTTONWOOD TREE INVENTORY -- 1987

☐ = Dead

MANCOS CANYON

ROVE: III - Mile 1/2; timbered
neck between Fields I&II N

by Marilyn Colyer

DATE		Diameter - (inches)				
		< 1"	1 - 3"	3-6"	6-10"	> 10"
	POPULUS ANGUSTIFOLIA					
7/19/87	west of river, north end of grove	6(3'T)				
7/19/87	east of river, north end	2	1	1(15-20'T)		
"	100 yards south of above, on bank slope	51sprouts	4	1	1	
"	100 yards further south, above old fence	10	80(3'T) (only 1 is 7'T)	1		
"	125 ft. west of river, rim of Gully III					19" DBH 3
"	" " " " " , north of slopes of " "	8				
	TOTAL	71	85	3	1	3
	Minus E. side	2	1	1		
	Park trees	69	84	2	1	
	POPULUS FREMONTII					
7/19/87	west of river, cow eaten	4(3'T)				
"	east of river	4	4 1	4(20-25;T)		
	TOTAL	8	4	4		
	Minus E. side	4	4	4		
	Park trees	4	0	0		
	POPULUS ACUMINATA					
	Flood plain 100 yards below lowest trees on east side; lush grass but NO TREES; Tamarisk along upper end.					
	All trees under 3" dia. are cow eaten and are multistemmed.					
	River here is cut down two feet into old gravels; eroding east bank, large masses of fallen sod; 11 small pools on west side with land locked minnows (200 - 1000 minnows/pool); Scirpus Vallidus near pools.					

COTTONWOOD TREE INVENTORY -- 1987

☐ = Dead

MANCOS CANYON

by Marilyn Colyer

GROVE : II Mile 1/4 up to Grove I
by North boundary

Diameter - (inches)

DATE		< 1"	1 - 3"	3-6"	6-10"	> 10"
	POPULUS ANGUSTIFOLIA					
7/19/87	drainage south of Gully I		35			
7/19/87	west bank, 1st terrace, 200' from river		1			
"	west side, small drainage	4				
"	east side, across from Gully I	2	3	☐ 1	1(30' T)	
"	west side, north of Gully I	80	11 and numerous red stem- med shoots (willows?)			
	TOTAL	86	50	☐ 1	1	
	Minus E. side	2	3	☐ 1	1	
	Park trees	84	47			
	POPULUS FREMONTII					
7/19/87	east of river, mile 1/4		1			
"	west of river, south edge of Field I	5	18(3-5' T)	1(8' T)	1	
	TOTAL	5	19	1	1	
	Minus E. side		1			
	Park trees	5	18	1	1	
	POPULUS ACUMINATA					
7/19/87	west of river, south edge of Field I	2				
	TOTAL	2				
	All trees under 3 inches diameter are severely cow eaten and multi-stemmed.					