CLIMATE

Two climatic stations are sufficiently similar to the Little Water Canyon Research Area to be of interpretive value. These are El Morro National Monument at 7225' elevation, 6 miles to the southwest, and Mc Gaffey at 7800' elevation, about 20 miles to the northwest. Monthly normals of temperature and precipitation are provided as given in the "Monthly normals of temperature, precipitation, and heating and cooling degree days 1951-1980, New Mexico," published by the National Oceanic and Atmospheric Administration in 1982.

Precipitation Normals (inches)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
Mc Gaffey	1.74	1.28	1.54	•93	.60	•54	2.32	2.43	1.40	1.59	1.08	1.36	16.81
El Morro													

Temperature Normals (Deg F)

Mc Gaffey	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann.
Max Min Mean	39 . 2	12.0	17.9	24.3	31.4	39.0	46.6	45.0	73.1 37.8 55.5	28.2	18.2	11.1	59.6 26.8 43.2
El Morro Max Min Mean	13.0	16.5	22.1	27.6	34.6	43.1	51.6	49.7	42.5	31.7	21.3	44.6 13.8 29.2	30.6

A map with isohyetals for the area is also provided (Map 5).



Northern Arizona University · FLAGSTAFF, ARIZONA 86011

BOX 4098

school of Forestry October 3, 1979

(602) 523-3031

Earl Aldon
U. S. Forest Service
517 Gold Ave., S. W.
Albuquerque, N. M. 87102

Dear Earl:

Here are the data sheets I promised you long ago. These show the location of the blue spruce canyon bottom area I think should be a research natural area. It is truly unique.

Good luck in your efforts along this line.

Sincerely,

Lee Fitzhugh

Relative it should be 57 TION RES W. Check with Stew Roman

Ron Clauson (on District) may be seen and acquainted with area.



NAT 15: 15" Tanapapering
GENERAL-DATA PLOT FORM , Photo No. 1 Observer_
Plot No. 963/ ELEV 7780 ASPECT 270 COUNTY SLOPE DATE 01-1/02
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Surface/subsurface drainage (describe) SUBIERIG MED- REM. STREAM MORLESS
Vatural Erosion Tendencies (describe) NEGLIGIBLE
Soil Rooting Depth 1 M to BEDFOCK
Nature of Bedrock & Root Penetration Socin
Solum stoniness (rock + gravel by volume) 20% (SAFP)
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JENERAL OBSERVATIONS
Fire History &
Logging influence Prpy LOGGED of 20-40 YRS 150 - OPENED CANYON- INFRESSED HE PROSE COULD
Grazing Influence:
No change in species cover or presence Change in species cover only (note species & change)
Change in species presence (detail)
Change in Life Form
Mistletoe: L MV H Evidence V/B - MAY OFFO PIRI - CETTELS - Species W/PV
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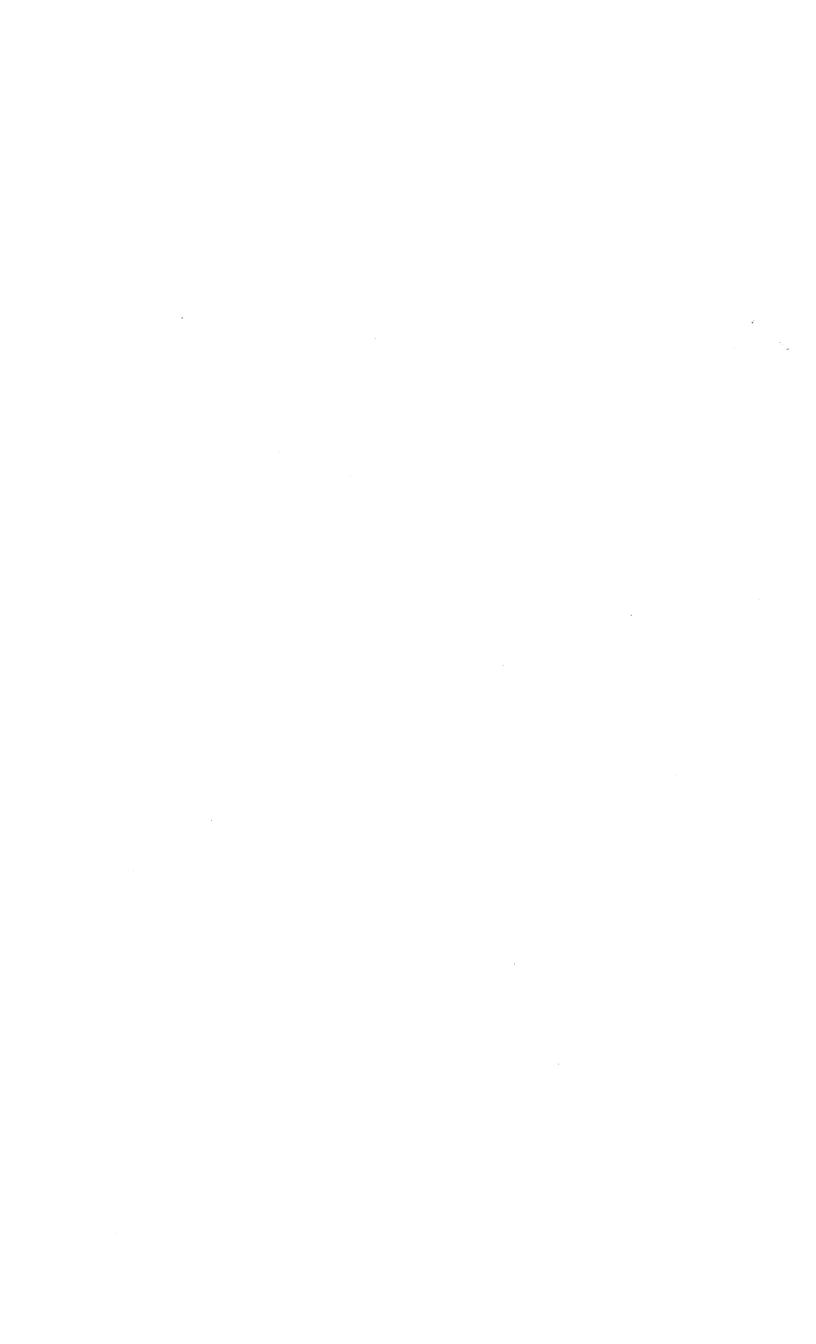
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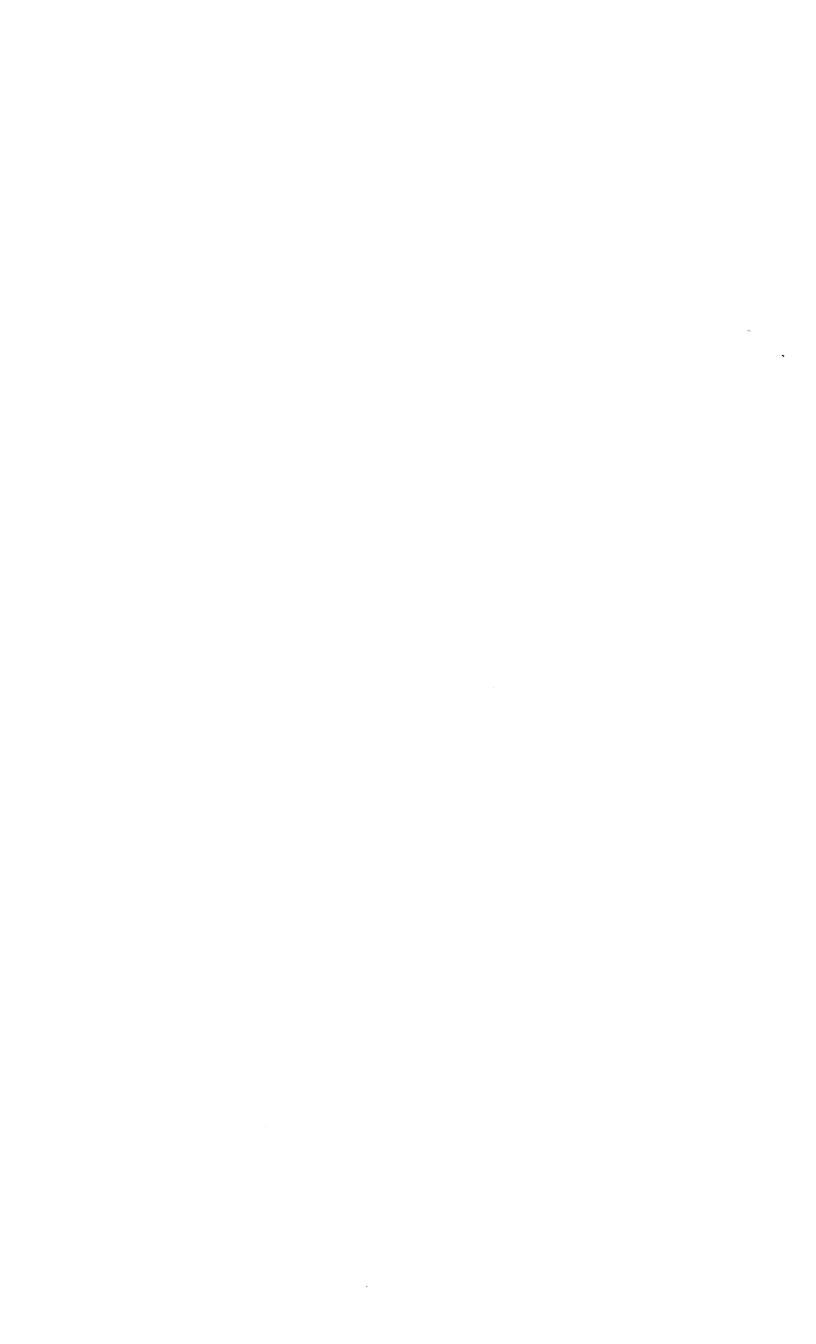
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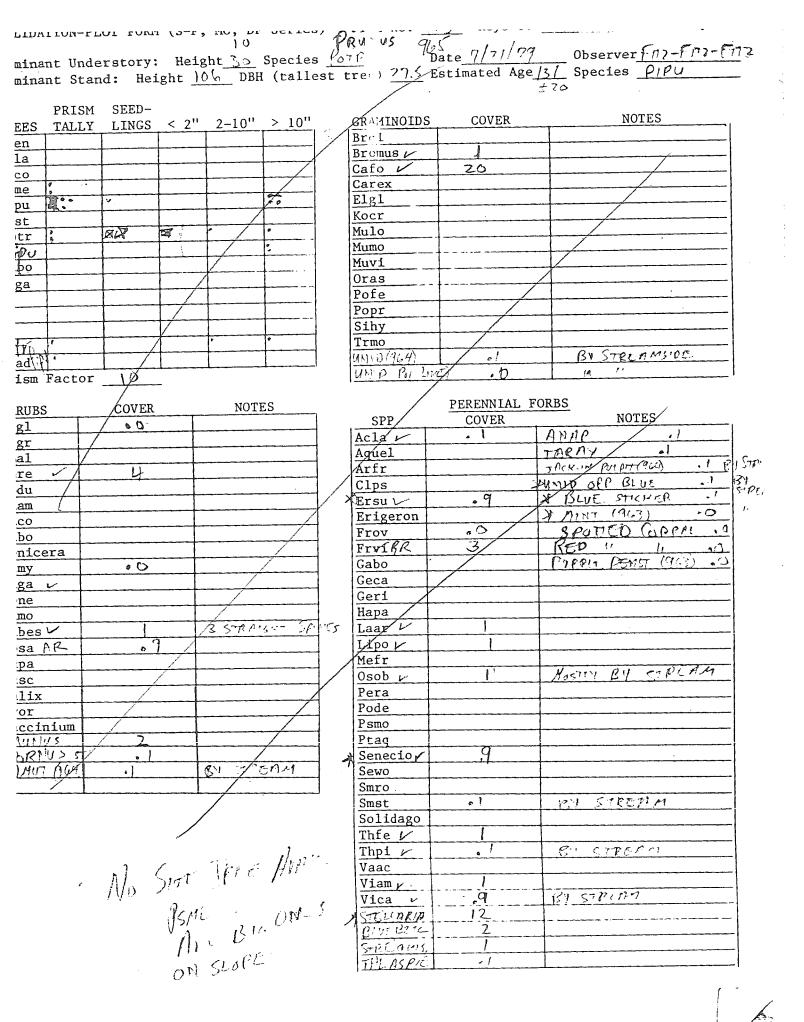
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	Ridge Upper Mid Lower Bench Stream Other O Litter 97 Moss Z Veg BA 7 =100%
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GENERAL OBSERVATIONS	
Fire History O	
Logging influence O	
Grazing Influence: No change in species cover or Change in species cover only	presence (note species & change)
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GENERAL-DATA PLOT FORM Photo No. Observer from FITZ FITZ FITZ FITZ FITZ FITZ FITZ FITZ
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Location: Little F. WATT-D SPRING 751-3: 3889.9
Plot No. 965 ELEV 8240 ASPECT 220 SLOPE 4 DATE 7/2/79 Location: LITTLE WATTO SPRING 751.3 3889.9 [10N R 13W S 6 Q 56 USFS QUAD 1725W ALLE LYDGO W.N.S.)
Landform Position Ridge Upper Mid Lower Bench Stream Other Topper
Soil Surface: Soil O Rocky O Litter 99 Moss T Veg BA = 100%
Soil PM SANDSTONE Mapping Unit_
% Surface stoniness (describe) O
% Exposed bedrock
Surface/subsurface drainage (describe) Subini M. ABOUT 11,0
Natural Erosion Tendencies (describe)
Soil Rooting Depth 2 M or 12 M
Nature of Bedrock & Root Penetration Sacip
% Solum stoniness (rock + gravel by volume)
CTIVED AT OF CERVIANIONS
GENERAL OBSERVATIONS
Fire History O
Logging influence O
Grazing Influence:
No change in species cover or presence V - / S SPATED Change in species cover only (note species & change)
Change in species cover only (note species & change)
Change in species presence (detail)
Change in Life Form
Mistletoe: LV M H Evidence Species Smc
Canopy Cover (%) 60 General Stand Description and areal extent WIDE STRUM TERRACES
Species Composition Shifts in Stand PATCHECOI STETLARIA & BEATE
(Relate to environmental factors)
Adjacent Communities:
Higher More Moist Less Moist
PIRO/FERR - QUAR OR STORES
Other DRIEF SITE - NOW CORNELL SIMILE SIMILER, W. C. M. MOTE PRATE PINCENCE,



Oominant U	nderstory	: Heig	ht 35 Spec	ies /	OTF	Date 7/7//	77 Observer fn7-fr3 ge/3/ Species PIPU
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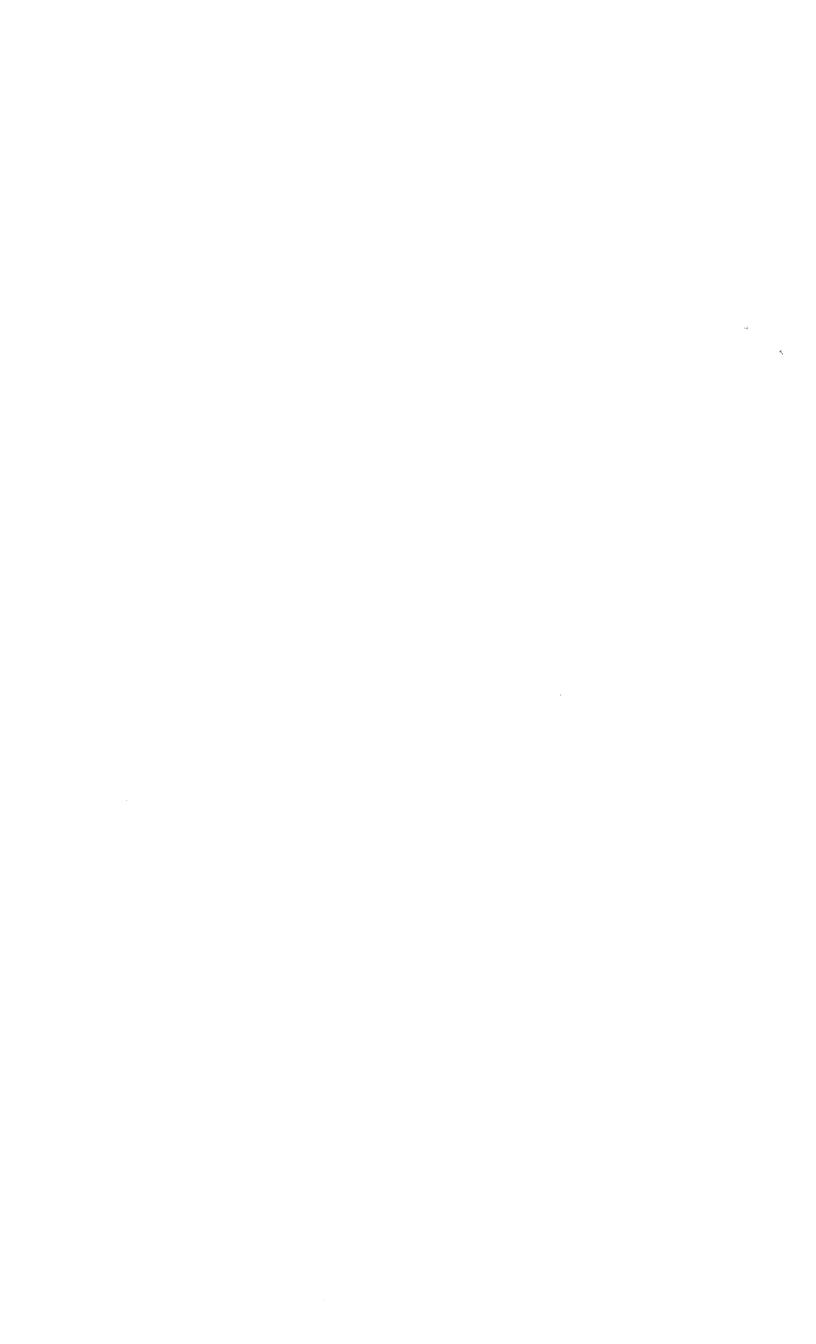


	Photo No.	A Observer	
Plot No. 963 A ELEV 7785 ASPECT 27	O (DOUR CERTON)	DAIDD Alex Local	
Plot No. 963 FELEV 7785 ASPECT 27 Location: 3881.2 - 750.1 Little T /0 N R 14 W S 7	WATER CANTON	DATE 7/21/1/	
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Landform (ANYUN Position	_RidgeUpperMid	LowerBenchStream // Oth	ıer
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Z Exposed bedrock O - SIDES OF	CANYON NOT 1	MCLUPED IN RECTANGUE	
Surface/subsurface drainage (describe)	SUBIRRIGATED- P	ERM. STREAM I HORLE	<u> </u>
Natural Erosion Tendencies (describe)	17 1 71 775-77 1 1 1 1 1 1 1 1 1 1		
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Nature of Bedrock & Root Penetration	·	•	- A Company
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GENERAL OBSERVATIONS			
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Fire History 6			
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Grazing Influence:			
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Change in species presence (detai			
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Change in Life Form Mistletoe: L MV H Evidence ₩ B	- HANT DEATH PIRI - RECO	F. Species Divi	2
Canopy Cover (%)			
General Stand Description and areal ex OLD LOGGING COUNTS	タッケー・カルコロと だっしきょくいく	Eng Plan	
Species Composition Shifts in Stand S (Relate to environmental factors)	MIND OF SMST TOPO	FPLOT - REACONS - DATE NO	<u> </u>
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Plot No. 963 A

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Prism Factor

NOTES

Soil Surface Cover (Actual Percentages = 100%): Rock, Exposed mineral Plot No: 963 @ (See GENERAL DATA PLOT FORM for location and other da VEGETATIVE COVER FORM (All Forest Series -- analytical plots) Cover classes (vegetation): 0-1% = 1; 1-5% = 1; 5-25% = 2; 25-50% = 1QUADRAT NUMBER

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Soil Surface Cover (Actual Percentages = 100%): Rock, Exposed mineral Cover classes (vegetation): 0-1% = T; 1-5% = 1; 5-25% = 2; Plot No: 763 A (See GENERAL DATA PLOT FORM for location and other de VECETATIVE COVER FORM (All Forest Series -- analytical plots) 25-50% =

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GENERAL-DATA PLOT FORM Photo No. 964 Observer Fnz	FITZ FITZ
Plot No. 964 ELEV 8640 ASPECT 286 SLOPE 4 DATE 1/21, Toolon: Little Water (ANYON 750.4-3889.1	179
T 10 N R 13W S 7 Q NE NW USFS QUAD 177 SE TEL HO	RRA
Landform CANNON Position Pidgo Unan Will I	
Soil Surface: Soil Rocky O Litter 97 Moss Z Veg BA	T
Soil PM SAMPSTONE Mapping Unit	
% Surface stoniness (describe)	
% Exposed bedrock	·
Surface/subsurface drainage (describe) SUBIRR - < 1 M TO H20	
Natural Erosion Tendencies (describe) _ O	
Soil Rooting Depth / M	i della
Nature of Bedrock & Root Penetration Sollo	
% Solum stoniness (rock + gravel by volume) 30 %	
GENERAL OBSERVATIONS	
Fire History O	
Logging influence O	
Grazing Influence: No change in species cover or presence	4.00
Change in species cover only (note species & change)	
Change in species presence (detail)	
Change in Life Form	
Mistletoe: L \vee M H Evidence Species $\rho_{i}\rho_{i}$	
General Stand Description and areal extent	
Species Composition Shifts in Stand B385 PAMY ONLY PLANTS UNIVER DEN	E PIP
(Relate to environmental factors)	
Adjacent Communities:	. Lenna
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Plot No. 965 FLEV 8240 ASPECT 270 CLOPE 1/2	2FM2FM2
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Plot No. 965 ELEV 8240 ASPECT 220 SLOPE 4 DATE 7/ Location: Little Warra Spring 751.3-3889.9 T 10N R 13W S 6 Q 50 USFS QUAD 1725W /AL	LE Lnoca W
Landform Position Ridge Upper Mid Lower Bench Str	
Soil Surface: Soil / Rocky O Litter 99 Moss T Veg BA_	1 = 1/2/2/2/2/2
Soil PM SANOSTONE Mapping Unit_	: 3
% Surface stoniness (describe)	
Z Exposed bedrock O	
Surface/subsurface drainage (describe) Subian IM. ABOUT 120	
Natural Erosion Tendencies (describe) 💍	
Soil Rooting Depth 2 M on 13 M	Particle v
Nature of Bedrock & Root Penetration Socip	
% Solum stoniness (rock + gravel by volume) 5	
GENERAL OBSERVATIONS	
Fire History ()	
Logging influence O	
Grazing Influence:	
No change in species cover or presence $\sqrt{-15}$ (2.4.257) Change in species cover only (note species & change)	
Change in species presence (detail)	
Change in Life Form	je salada
Change in Life Form Mistletoe: LV M H Evidence Species 75 m	1.5
Change in Life Form	
Change in Life Form Mistletoe: LV M H Evidence Species Species	
Change in Life Form Mistletoe: LV M H Evidence Species Species Canopy Cover (%) GO General Stand Description and areal extent Wint CTROMM TORRACES Species Composition Shifts in Stand PATCHECO OF STREET NIR Y BEN (Relate to environmental factors) Adjacent Communities:	
Change in Life Form Mistletoe: LV M H Evidence Canopy Cover (%) (30) General Stand Description and areal extent Wint CTROM TOMRACOS Species Composition Shifts in Stand PATCHOC OF STRUM & Box (Relate to environmental factors) Adjacent Communities: Higher More Moist Lower Less Moist	
Change in Life Form Mistletoe: LV M H Evidence Species PSM Canopy Cover (%) 60 General Stand Description and areal extent Wigh CTREAM TORRACES Species Composition Shifts in Stand PATCHEC OF STECLARIA & BEA (Relate to environmental factors) Adjacent Communities: Higher More Moist	
Change in Life Form Mistletoe: LV M H Evidence Species Species Canopy Cover (%) (50) General Stand Description and areal extent Wint CTROM TOMRACOS Species Composition Shifts in Stand PATCHOC OF STECLARIN & BOX (Relate to environmental factors) Adjacent Communities: Higher More Moist Lower Less Moist	3 7/2
Change in Life Form Mistletoe: LV M H Evidence Canopy Cover (%) GO General Stand Description and areal extent Wight CTROMM TORRACES Species Composition Shifts in Stand PATCHEC OF STITULARIN & BEA (Relate to environmental factors) Adjacent Communities: Higher Lower Less Moist Rocky Areas Other Environmental factors Other DRIER SITE - Non PERSONNIBL = SIMILAR WINGE MARE PRINT P.	3 7/2

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Observer: 177 - 177 - 177 - Date: 7/21/99

Plot No: 01,3 0 (See GENERAL DATA PLOT FORM for location and other data) VEGETATIVE COVER FORM (All Forest Series -- analytical plots)

Basal area (BA) Soil Surface Cover (Actual Percentages = 100%): Rock, Exposed mineral Soil, Litter (all types), Moss, Vascular Plant 50-75% = 4; 75-95% = 5; 95-100% = 6 25-50% = 3;5-25% = 2;QUADRAT NUMBER Cover classes (vegetation): 0-1% = T; 1-5% = 1;

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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 TOTAL 2 Ø NATA -Basal area (BA). Soil Surface Cover (Actual Percentages = 100%): Rock, Exposed mineral Soil, Litter (all types), Moss, Vascular Plant 12 OF AR CO AR Cover classes (vegetation): 0-1% = T; 1-5% = 1; 5-25% = 2; 25-50% = 3; 50-75% = 4; 75-95% = 5; 95-100% = 6Ì A8047 D/// ١. 21/01/1 Plot No: 16 | (See GENERAL DATA PLOT FORM for location and other data) QUADRAT NUMBER POPPORTANTI THE IN PLOTE BUT NOT IN QUARTER RANCACA 0 75 4 3 4 5. 至1/29 1 2 SPECIES PRESE S Michigha CLE 少學院 AT MUSS I,TETER 100 SSUE <u>م</u>

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VEGETATIVE COVER FORM (All Forest Series -- analytical plots)