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# Pacific Southwest INTER-AGENCY COMMITTEE

## REPORT of the PHREATOPHYTE SUBCOMMITTEE



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AUGUST, 1969

### ARIZONA PHREATOPHYTE TREATMENT SURVEY

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PHREATOPHYTE TREATMENT SURVEY

STATE OF ARIZONA

August, 1969

The following survey was prepared under the direction of the Pacific Southwest Inter-Agency's Phreatophyte Subcommittee. The survey was initiated at the 69-1 meeting in San Diego, California at which time Robert E. Moore, Jerome S. Horton, and Dexter Gill were asked to prepare and submit a report on active work and planning of phreatophytic control along Arizona's natural stream channels.

This was accomplished after discussions on format, mailing list, basic letter of approach, and limited contact with others involved in similar surveys.

We want to express our appreciation to each agency and individual who cooperated in the compilation of this data. The results of this survey and your cooperation are summarized in the following pages.

## QUESTIONNAIRE PROCEDURE

### LOCATION

The agency responding was asked to specify, insofar as possible, the stream system name, and, section-township-range location of all work reported.

### TYPE OF VEGETATION

The method of identification, and type of vegetation were requested. Three phrases or words: Vegetative Survey (V.S.), Photographs (P), or Working Estimate (W.E.) were suggested, and the responses edited into one or more of those identifiers. Type was to be indicated by letter code as follows: Cottonwoods = C, Salt Cedar = T, Sycamore = S, Willows = W, Mesquite = M.

### AREA

Acres under treatment, completed and maintained, or in active planning were requested. "Current" acres was defined as those parcels on which field work is progressing, or on which the operating criteria are set and funding approval received.

"Completed and Maintained" shall include those parcels which have been substantially finished with respect to clearing or thinning of the initial stand and on which maintenance may, or may not, have commenced.

"Active Planning" shall include those parcels on which engineering preparations are essentially complete but for which no funds have been obligated.

Dates of completion (anticipated for "planning") were entered when provided with the acreage shown.

### PURPOSE

The agency justification for the work was categorized into seven possible responses. This was expanded to nine based on the actual information received. Where more than one justification is involved, the order of response was to indicate priority: 1 - Fish & Wildlife, 2 - Flood Control, 3 - Irrigation Water, 4 - Municipal & Industrial Water, 5 - Recreation, 6 - Research, 7 - Channel Stabilization, 8 - Control along irrigation canals and laterals, 9 - Other (the agency was asked to explain).

### TYPE OF TREATMENT

Five types of treatment were suggested and the majority of responses were reported without need for interpretation. These were: sawing, dozing, chaining, chemicals, discing.

August, 1969

PHREATOPHYTE TREATMENT SURVEY (ARIZONA)

August, 1969

<u>AGENCY NAME</u>	<u>MAP</u>	<u>LOCATION*</u>	<u>VEGETATION</u>		<u>ACRES OF WORK</u>			<u>PURPOSE</u>	<u>TYPE OF TREATMENT</u>
			<u>Type</u>	<u>Method</u>	<u>Completed</u>	<u>Current</u>	<u>Planned</u>		
<u>FEDERAL</u>									
Bureau of Indian Affairs Phoenix Area Office P. O. Box 7007 Phoenix, Arizona 85011	(1)	T-1S-2S; R-19E San Carlos River	C	V.S. P.	259	259	-	2,3,6,9	Dozing
		T-1S-2S; R-19E San Carlos River	M	V.S. P.	341	375	-	2,3,6,9	Knifing
		T-1S-2S; R-19E San Carlos River	T	V.S. P.	600	877	-	2,3,6,9	Knifing
	(2)	T-1S-2S-3S; R-19E-20E-21E-22E Gila River	M	V.S. P.	1714	6242	-	2,3,6,9	Knifing
		T-1S-2S-3S; R-19E-20E-21E-22E Gila River	T	V.S. P.	5140	5978	-	2,3,6,9	Knifing
	(3)	T-7N; R-18E-19E Cibecue	C	P W.E.	843	843	-	3,4	Chemical
Bureau of Indian Affairs Navajo Reservation Tuba City Agency Tuba City, Arizona 86045	(4)	Little Colorado River within Navajo Reservation	T	-	-	-	Undetermined acreage & timing	-	-
Bureau of Indian Affairs San Carlos Irrigation Project Coolidge, Arizona 85228	(5)	T-2S-3S; R-20E Gila River	T	W.E.	44	-	101	7	Dredging
	(6)	T-4S-5S; R-13E-14E-15E Gila River	T	V.S.	10	-	2600	3	Mech. Removal, Dozing, Knifing
Bureau of Land Management 3022 - Federal Bldg. Phoenix, Arizona 85025	(7)	T-11S; R-29E; Sec. 23 San Simon	T M	W.E.	10	-	-	2	Knifing
	(8)	T-12S; R-29E; Sec.2-11-12 San Simon	T M	W.E.	300	-	-	2	Knifing
	(9)	T-6N; R-12W; Secs.14-15 Centennial Wash	T	W.E.	-	-	10	2	Knifing, Dozing

AGENCY NAME	MAP	LOCATION*	VEGETATION		ACRES OF WORK			PURPOSE	TYPE OF TREATMENT
			Type	Method	Completed	Current	Planned		
<u>FEDERAL</u> (con't.)									
Bureau of Reclamation Phoenix Development Ofc. Region 3 135 North 2nd Avenue Phoenix, Arizona 85003	(10)	T-16 through 21N; R-15 through 22E Little Colorado River Winslow-Holbrook Div. Mogollon Project	C T	W.E.	(Planning initiated July, 1969. No field work accomplished toward identification of type or extent of vegetation).				
	(11)	T-2N-3N-4N; R-6E-7E-8E Orme Reservoir Salt & Verde Rivers	C T M	W.E.	(				
	(12)	T-4N-5N; R-11 through 14E. Buttes Reservoir Gila River	T C M	W.E.	(			(	Clearing of Reservoir area of large growth to top of conservation storage that is considered an operational or safety hazard.
	(13)	T-21S-22S; R-21E-22E Charleston Reservoir San Pedro River	M T	W.E.	(				
	-	T-14S; R-16W New Mexico Base Meridian - Hooker Reservoir-Gila River.	C T S M	W.E.	(				
	(15)	T-5 through 24S; R-15 through 22E San Pedro River	T M	V.S. P.	-	-	Planning Still in 1,3,4,5 Progress 23,600 Ac.		
	(16)	T-1 through 21N & T-1 through 12S; R-17 through 25W Lower Colorado River Davis Dam to U. S. Mexico Border	T A** M	V.S.	-	-	42,000	1,3,4,5	
	(17)	T-2 through 5S; R-28 through 32E Upper Gila & San Francisco Rivers above Corps of Engineers Camels- back Reservoir site. (Arizona & New Mexico)	C T M	W.E.	-	-	Unknown		
	(18)	T-1 through 24S; R-1 through 14E Santa Cruz River	M	W.E.	-	-	Unknown		

\*\* A = arrow-weed

AGENCY NAME	MAP	LOCATION*	VEGETATION		ACRES OF WORK			PURPOSE	TYPE OF TREATMENT
			Type	Method	Completed	Current	Planned		
<u>FEDERAL (con't.)</u>									
Department of the Army Corps of Engineers Los Angeles District P. O. Box 2711 Los Angeles, Calif. 90053	(19)	T-4 through 7S; R-22 through 28E Gila River, Graham County, Brown Canal Heading to San Carlos Reservation.	T M	V.S.	-	5250	-	2,3	Root plow - clear cut except for 100' fringe each side of channel.
	(20)	T-4-5S; R-14-15E Gila River, Pinal County, Winkelman to Kelvin, Arizona	T M	V.S.	-	-	1950	2,3	Root plow - clear cut except for 100' fringe each side of channel.
	(21)	Gila River, Yuma County, Texas Hill to Gila Siphon	T M	V.S.	-	-	5300	2	Dozing, 100' fringe retained.
International Boundary & Water Commission United States & Mexico P. O. Box 1859 El Paso, Texas 79950	(22)	T-8-11S; R-24-25W A 700' strip of flood- way - Colorado River, Morelos Dam to Mexican Boundary (21 river miles)	W M		1500		Annual Maintenance of treated reach.	2	Discing
<u>STATE</u>									
Arizona Game & Fish Dept. P. O. Box 9095 2211 West Greenway Road Phoenix, Arizona 85020	-	-	-	-	(Department reports "...an inventory of the type, density, and acreage of riparian growth on flood plains along streams in Arizona." Work covers 430 river miles considered as valuable for wildlife purposes; no treatment by A.G.&F. Dept.)				
Arizona State Parks Board 1611 West Adams Phoenix, Arizona 85007	(23)	N½ of Section 32; T-11N; R-18W Buckskin Mtn. State Park	T	-	50 (1965)	-	-	5	Dozing
University of Arizona College of Agriculture Department of Watershed Management Tucson, Arizona 85721	-	Growth-chamber study at University and field study.	T	-	-	-	-	6 for 1,3,4	Chemicals

AGENCY NAME	MAP	LOCATION*	VEGETATION		ACRES OF WORK			PURPOSE	TYPE OF TREATMENT
			Type	Method	Completed	Current	Planned		
<u>COUNTY</u>									
Office of the County Engr. (24) Apache County P. O. Box 72 St. Johns, Arizona 85936		Sec. 27; T-13N; R-28E Little Colorado River	T W	W.E.	4	-	-	2	Dozing
Office of the County Engr. (25) Graham County Board of Supervisors Graham County Court House 800 Main Street Safford, Arizona 85546		T-5-7S; R-24-27E The middle Gila River channel, Graham County. (35 river miles)	T M	P.	-	-	500±	2,3	Dozing, Chaining, and burning.
Office of County Engr. Greenlee County Board of Supervisors Clifton, Arizona 85533	(26)	Gila River through Clifton	C W	W.E.	Snags in channel which had to be removed in connection with Corps of Engineer's file 448/129 - 1967			7	Mech. Removal
Maricopa County Flood Control District 3325 West Durango St. Phoenix, Arizona 85009	(27)	T-2N; R-5E to T-1N; R-2E Salt River Channel, Maricopa County - Country Club Dr. (Mesa) to 59th Ave.	T	W.E.	Planned with Corps of Engineers; execution by private parties without reference to plan. Channel improvement pending.			2,7	Mech. Removal
	(28)	T-1N; R-1E to T-2S; R-5W. 91st Avenue to Gillespie Dam.	T W	W.E.	Planned, authorized but pending due to conflicts within State and between Federal agencies.			2,3,4,7	Mech. Removal
Office of County Engr. Mohave County % N. J. Devlin, Consulting Engineer P. O. Box 431 Kingman, Arizona 86401	(29)	Sec. 12; T-20N; R-22W Colorado River	T M	P.	15	-	30	5	Dozing
<u>IRRIGATION DISTRICTS</u>									
Buckeye Irrigation Company (30) P. O. Box 726 Buckeye, Arizona 85326		Parts of Secs. 27-28-33; T-1N; R-1W. Agua Fria River Channel at confluence with Gila River.	T	W.E.	40 to 50 (July, 1968)	Maintenance Only		2,7	Dozing, Discing

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<u>IRRIGATION DISTRICTS (con't.)</u>									
Colemenero Canal Company #1 - % R. Golding Duncan, Arizona 85534	-	-	C T W M	W.E.	(Canal not in use at present time)			3	Dozing, Chemicals
Salt River Project P. O. Box 1980 Phoenix, Arizona 85001	(31)	T-13-16N; R-3-5E, along Verde mainstream, and tributaries to east. 44 river miles.	C T W	W.E. P.	1029	-	1500 (FY '70-'75)	2,3,4,5,7	Dozing, Sawing
San Carlos Irrigation & Drainage District P. O. Box 218 Coolidge, Arizona 85228	-	-	-	-	Maintenance of work by B.I.A. - future (FY '71-'72).			-	-
Wellton-Mohawk Irrigation & Drainage District Route 1, Box 19 Wellton, Arizona 85356	(32)	T-5 through 9S; R-11 through 19W Gila River Channel, Hyder to Wellton 50 river miles	T	W.E.	-	600	-	2,7	Dozing, Spraying, Disc Plowing

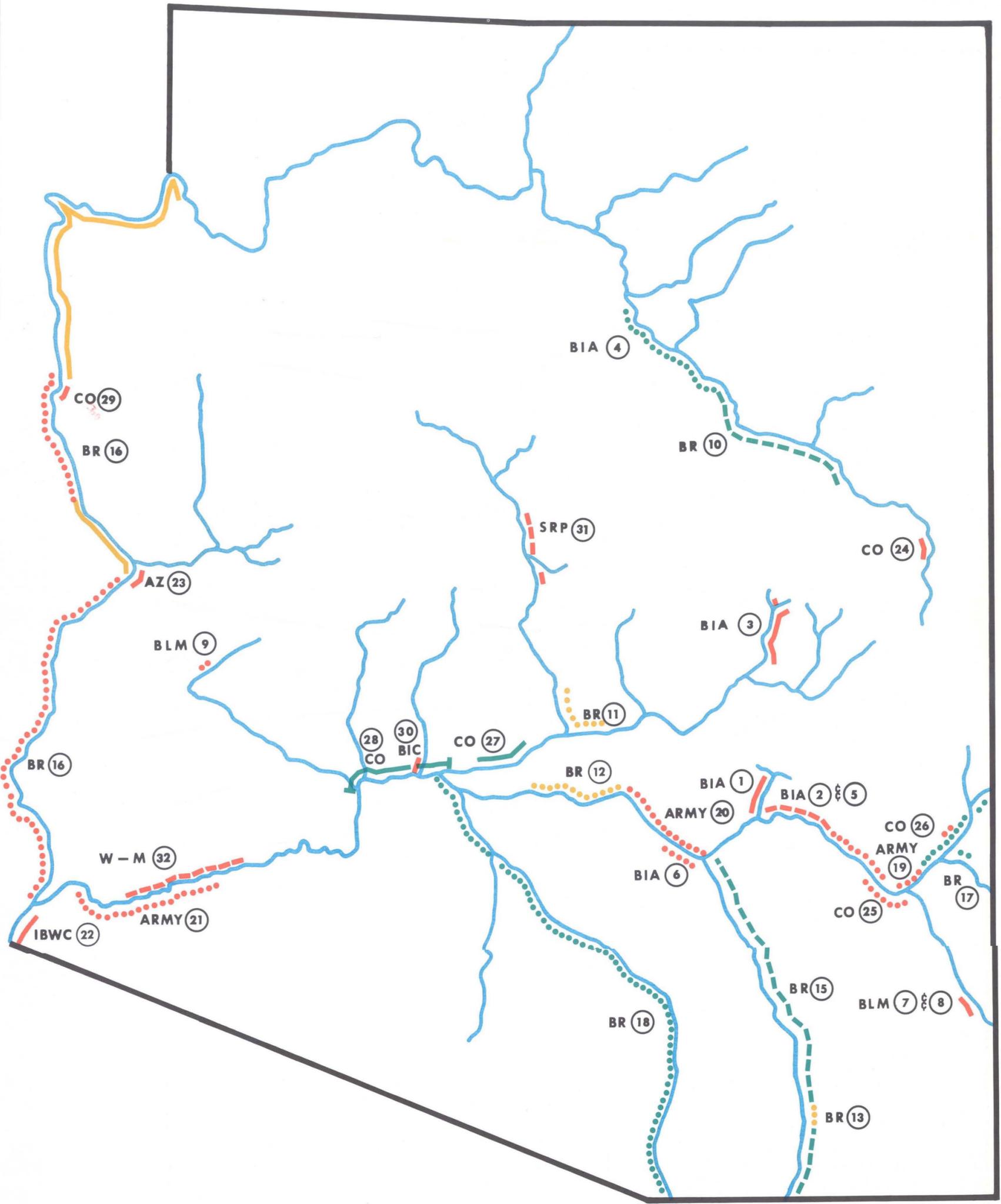
\* All locations are on the Gila and Salt River Base and Meridian unless otherwise noted.

### MISCELLANEOUS NOTES

187 federal, state, and local agencies received the initial mailing of the questionnaire reported at the 69-3 meeting. Total response, after a second mailing, numbered 87.

Several irrigation districts and some of the counties responded to the effect that work is done along canals, laterals, and certain roadways. These were not included in the tabulation, however, this information will be available at the Forest Hydrology Laboratory, Arizona State University, Tempe. No listing was requested or shown regarding clearing for agricultural purposes. A complete mailing list will also become part of the permanent record in that library.

Several agencies, in providing responses, asked for a copy of the finished survey. It is recommended that such requests be handled by Jerome S. Horton so that a list of non-member mailings can be kept up-to-date.



LEGEND

AGENCIES REPORTING

- ARMY - DEPARTMENT OF THE ARMY, CORPS OF ENGINEERS
- AZ - ARIZONA STATE PARKS BOARD
- BIA - BUREAU OF INDIAN AFFAIRS
- BIC - BUCKEYE IRRIGATION DISTRICT
- BLM - BUREAU OF LAND MANAGEMENT
- BR - BUREAU OF RECLAMATION
- CO - COUNTY
- IBWC - INTERNATIONAL BOUNDARY & WATER COMMISSION
- SRP - SALT RIVER PROJECT
- W-M - WELLTON-MOHAWK IRRIGATION AND DRAINAGE DISTRICT

PROJECT STATUS - AUGUST 1969

VEGETATION

- WORKING ESTIMATE PREPARED OR VEGETATION SURVEY PLANNED .....
- VEGETATION SURVEY IN PROGRESS - - - - -
- CLEARING PLANS COMPLETED BUT NO PRESENT LOCAL SUPPORT —————

CLEARING PROJECTS

- PLANS BEING PREPARED OR AUTHORIZED .....
- CLEARING IN PROGRESS - - - - -
- CLEARING COMPLETED —————

RESERVOIR CLEARING

- PLANNED IF DAM BUILT .....
- DAM BUILT —————

