STATE OF CALIFORNIA
DEPARTMENT OF WATER RESOURCES

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HARVEY O. BANKS, Director of Water Resources
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REPORT ON

WATERMASTER SERVICE

IN

SOUTH FORK PIT RIVER WATERMASTER SERVICE AREA

MODOC AND LASSEN COUNTIES, CALIFORNIA

1956 SEASON

Sacramento, California
March, 1957

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SUBMISSION TO, AND ADOPTION BY
DEPARTMENT OF WATER RESOURCES

I, William R. Gianelli, Chief, Water Rights Section, Department of Water Resources of the State of California approve this "Report on Watermaster Service in South Fork Pit River Watermaster Service Area, Modoc and Lassen Counties, California, 1956 Season".

/s/ William R. Gianelli

Chief, Water Rights Section

I, Harvey O. Banks, Director of the Department of Water Resources of the State of California, approve and adopt this "Report on Watermaster Service in South Fork Pit River Watermaster Service Area, Modoc and Lassen Counties, California, 1956 Season", as a report of the Department of Water Resources.

Witness my hand and the seal of the Department of Water Resources of the State of California this _____ day of March, 1957.

State of California
Department of Water Resources

/s/ Harvey O. Banks

HARVEY O. BANKS
Director

SEAL

ORGANIZATION
STATE DEPARTMENT OF WATER RESOURCES

Harvey O. Banks . . . . . Director of Water Resources

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The activity covered by this report is under the

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INTRODUCTION

This is the twenth-second annual report on watermaster service in the South Fork Pit River Watermaster Service Area and covers the period of water distribution in 1956 beginning April 1 and terminating September 30.

The service area was created by order of the Department of Public Works on December 31, 1934, to include with minor exceptions the water rights on South Fork Pit River. Subsequent orders have revised and changed the service area to include the water right of the South Fork Irrigation District, the water rights on Pine Creek and on Pit River in Hot Springs Valley, and to exclude certain rights to water from springs in the South Fork Pit River area.

Prior to inclusion in the service area, the various water rights involved had been determined as follows:

South Fork Pit River	W. E. Armstrong v Frank McArthur, No. 3273 Superior Court, Modoc County, entered October 30, 1934.
Pine Creek	Agreement Determining Rights to Water and to the Use Thereof From Pine Creek Near Alturas, in Modoc County, California, dated November 7, 1934.
Pit River in Hot Springs Valley	Agreement Determining Rights to Water and to the Use Thereof From Pit River and Rattlesnake Creek in Hot Springs Valley in Modoc County, California, dated November 22, 1933.

After Pine Creek and Pit River in Hot Springs Valley were included in the South Fork Pit River Watermaster Service Area, the two service areas which had been created on those streams on January 12, 1935, were abolished.

Watermaster service has been provided during each irrigation season since the service area was created, and annual reports have been prepared to show the work accomplished during each season.

WATER SUPPLY

Water supply was above normal on all streams within the service area. Heavy precipitation during December and January together with the resultant snow runoff filled Big Sage and West Valley reservoirs, which supply irrigation water for Hot Springs Valley and South Fork Irrigation Districts, respectively.

Precipitation

Data on precipitation, compiled from records of the United States Weather Bureau, for Alturas and Jess Valley are shown in Table A-1. The records at these stations for the 1955-1956 season indicate a seasonal precipitation of 126 per cent and 114 per cent of the mean, respectively.

Average water content of the snow pack at Eagle Peak, Blue Lake Ranch, Cedar Pass, and Adin Mountain Snow courses, as published in the Division of Water Resources bulletin "Water Conditions in California, April 1, 1956", was 18.9 inches. The average of the 50-year means for the above courses is 16.4 inches. This information is shown in more detail in the following tabulation:

Snow course	Elevation in feet	Water content of snow, in inches		Per cent of mean
		50-year computed mean	1956	
Cedar Pass	7,200	19.9	23.2	117
Eagle Peak	7,500	18.2	22.2	122
Blue Lake Ranch	7,300	13.6	15.8	116
Adin Mountain	6,500	13.8	14.5	105

Stream Flow

South Fork of Pit River. The record of daily mean discharge of South Fork Pit River near Likely from April 1 to September 30, 1956, is presented in Table A-2. These data were taken from preliminary records of the United States Geological Survey and represent impaired flow after use for upstream irrigation in Jess Valley and diversions for storage in West Valley Reservoir. The computed natural runoff of South Fork Pit River at the United States Geological Survey Station near Likely from April 1 to September 30 is shown in Table A-4. Evaporation from West Valley Reservoir was included in the computations and was computed by using the mean monthly evaporation rate at Fall River Mills, California.

A record of the daily release from West Valley Reservoir during the period between April 1 and September 30, 1956, is presented in Table A-3.

Data presented in Tables A-2 and A-3 are shown graphically on Plate 1. On the graph, the solid line represents the impaired discharge of South Fork Pit River and the dotted line represents water released from storage in West Valley Reservoir.

Fitzhugh Creek. Frequent observations were made of the flow in Fitzhugh Creek during the season. The flow above normal throughout the snow melt period. From July 1 to the end of the season the flow remained nearly constant at about 2.5 second-feet.

Pine Creek near Alturas. A record of flow of Pine Creek above all diversions at the California-Oregon Power Company power house is presented in Table A-5. Discharge at this point is obtained by current meter measurements and an automatic water stage recorder. A hydrograph of the flow of Pine Creek has been prepared from the data in Table A-5 and is presented on Plate 2. The Pine Creek watershed is located mainly at high elevations in the Warner Mountains and the flow is generally inadequate to meet the irrigation demands until the high snow begins to melt about May 1.

Pit River and Rattlesnake Creek in Hot Springs Valley, and Big Sage Reservoir. The principal sources of water for irrigation in Hot Springs Valley are N rth Fork and South Fork of Pit River, Big Sage Reservoir, and Rattlesnake Creek. The two forks of Pit River, which combine at the upper end of the Valley, are joined a short distance below by Rattlesnake Creek. The natural channel of Rattlesnake Creek is also used to convey water released from Big Sage Reservoir to meet deficiencies in natural water supply.

Due to backwater conditions from river dams it has not been feasible to establish a measuring station below the junction of North Fork and South Fork of Pit River. Therefore, no record of flow entering Hot Springs Valley from these sources is presented in this report.

A record of water released from storage in Big Sage Reservoir is given in Table A-7.

Below Rattlesnake Creek other small streams contribute to the water supply of Pit River in Hot Springs Valley during the early part of each season. In 1956 the flow from these sources continued until about June 25.

A stream flow measuring station is maintained by the United States Geological Survey on Pit River near Canby. This station is located at the outlet of Hot Springs Valley, and in the absence of other records, the flow there is indicative of water supply conditions in the Hot Springs Valley area. The record of discharge at this station also includes return flow from irrigation in the area. Table A-6 is a record of the flow of Pit River near Canby, as taken from preliminary records compiled by the United States Geological Survey.

A hydrograph prepared from the data in Table A-6 is presented on Plate 3. Superimposed is a hydrograph of the flow releases from Big Sage Reservoir.

DISTRIBUTION OF WATER

Distribution of water during the 1956 season was in accordance with the decrees and agreements, which set forth water rights throughout the service area. The above normal water supply simplified distribution problems during the early part of the season.

South Fork of Pit River

Regulations of diversions of the natural flow from South Fork of Pit River, including Fitzhugh Creek and other upstream tributaries, was made in accordance with Schedules 2 and 3 of the South Fork of Pit River

Judgment and Decree No. 3273, which sets forth the several rights and priorities. The flow of West Valley Creek comprises a part of the South Fork of Fit River stream system, and its distribution is governed by the decree. Strict compliance with the decree would require the entire flow of West Valley Creek to pass unobstructed through West Valley Reservoir at all times that the water supply of the stream system was insufficient to fill all decreed allotments. However, in practice the flow of West Valley Creek is stored in the Reservoir during the irrigation season and is released from time to time along with water belonging to the South Fork Irrigation District. The District's water and the decreed allotments are then separated at the various head gates downstream. This separation of commingled water is simplified by the fact that there are only three ranches entitled to a share of the natural flow that are not within the South Fork Irrigation District.

The regulation of West Valley Reservoir storage was performed in accordance with the by-laws of the South Fork Irrigation District. Head gates and river dams are adjusted to deliver storage water to district members requesting water. The amount of water to which each member was entitled was determined by multiplying the total amount of storage at the beginning of the season by the percentage factor of each owner as follows:

Name of present owner	Name of original owner	Percent of stored water	Total per cent of stored water presently owned
Beeson, Somer and Beeson Georgia	Williams, Roy	0.80	0.80
Burmister, Arthur H.	Armstrong, W. E.	2.18	
	Stepp, Ray	1.07	3.25

Name of present owner	Name of original owner	Percent of stored water	Total per cent of stored water presently owned
Derner, Anna C.	Gaustad, R. O.	1.79	1.79
Flournoy Bros.	Flournoy, J. D.	3.98	
	McGarva, Douglas	0.24	
	Stinson, A. L.	0.03	
	Van Loan, D. E.	5.98	
	Coffman, A. T.	0.73	10.96
H. C. Cattle Company	Christensen, V. F.	20.46	20.46
McGarva, John and McGarva, Peter	McGarva, John and McGarva, Peter	2.63	
	Gaustad, E. J.	1.95	4.58
Monroe, N. H. and Monroe Harold C.	McArthur, Frank	22.81	22.81
Nelson, Katie H.	Nelson, Katie H.	2.74	2.74
Ramsey, Masten and Ramsey, Addie M.	Hughes, Jesse	2.23	2.23
Van Loan, Kenneth D. & Van Loan, Bernardine	Flournoy, W. H.	2.51	
	Van Loan, D. E.	2.55	5.06
Williams, Gary and Williams, Theresa	Williams, Gary and Williams, Theresa	2.51	2.51
Winema Farms	McArthur, Frank	22.81	22.81
TOTALS		100.00	100.00

The natural flow of South Fork Pit River was sufficient to supply the irrigation demand from April 1 to June 27 and during the haying season from July 3 to July 25. At all other times the deficiency was met by reservoir releases. No reservoir releases were made for pre-irrigation of grain land after April 1 because of the high natural flow of the river. The reservoir filled by the first part of April and water flowed over the spillway

until July 1. The maximum flow over the spillway was about 40 second feet. The diversion ditch from South Fork Pit River to West Valley Reservoir was not used after April 1. Releases for irrigation of hay lands before harvesting were necessary during a six day period beginning June 27. Total releases during this period were 660 acre-feet. By July 25 some of the hay fields were ready for irrigation of fall pasture and reservoir releases were started. Releases were increased and reached a peak for the season of 157 cubic feet per second on August 6. By August 22 all lands had been irrigated at least once after haying and releases were gradually reduced. By September 27 the irrigation demand had practically ended and the reservoir outlet was closed. Storage on that day was 7,280 acre-feet equivalent to 42 percent of capacity.

Daily mean releases for the 1956 season from West Valley Reservoir are given in Table A-3.

Average percentages of decreed allotments available from the natural flow of South Fork of Pit River, exclusive of West Valley Reservoir releases, are shown in the following tabulation.

Month	Per cent of allotments available	
	First priority	Second priority
April	100	90
May	100	100
June	100	100
July	100	37
August	100	11
September	100	3

Fitzhugh Creek

Distribution of Fitzhugh Creek water was made in accordance with provisions of the decree. The distribution problem on North Fork Fitzhugh Creek concerning the Bowman Ranch and the Yankee Jim Ranch, which required much regulation in 1955, was again a problem in 1956. A weir was installed late in the 1956 season in North Fork Fitzhugh Creek just below the Bowman Ditch to help in the regulation. The inaccessibility of all diversion points precludes frequent regulation of the water. Problems of distribution have arisen because the flow of water imported to North Fork Fitzhugh Creek from Mill Creek has fluctuated from week to week. Average percentage of allotments available during the 1956 season are presented in the following tabulation:

Month	First priority	Second priority
April	100	100
May	100	80
June	100	60
July	100	25
August	100	10
September	100	10

Pine Creek Near Altures

Distribution of Pine Creek water was made in accordance with the allotments set forth in Schedule 2 of the Pine Creek Agreement.

This year the terms of the Agreement were interpreted to allow the Dorris Ranch's Pine Creek Field its entire first priority right of 3.6 second feet for use on the 340 acres. The 340 acres lie above the main

Dorris ditch leading from Dorris Reservoir. The above amount of water was diverted at all times, even though there was ample flow in North Fork Pit River. During 1954 and 1955 the agreement was interpreted to mean that water allotted from Pine Creek for use on the 340 acres should be pro-rated along with all other first priority rights on Pine Creek at times when the flow of North Fork Pit River was sufficient to irrigate the Dorris Ranch. The interpretation allowed during 1956 is in accord with past distribution practices on Pine Creek.

Considerable regulation was necessary throughout the season to secure proper distribution. The flow was sufficient to provide full allotments from May 22 through June 20. On June 30, the ranchers began drying their lands for haying, and about 20 second-feet were diverted into Dorris Reservoir rather than allow this water to go to waste. On July 12 this diversion to the reservoir was greatly reduced.

The average percentages of allotments delivered from Pine Creek are presented in the following tabulation:

Month	Percent of allotments delivered or available	
	First priority	Second priority
April	100	20
May	100	93
June	100	100
July	100	32
August	94	0
September	68	0

Hot Springs Valley

Distribution of Pit River water was made in accordance with the allotments set forth in Schedule 2 and 3 of the Hot Springs Valley Agreement. The distribution of Big Sage Reservoir water was made in accordance with the by-laws of the Hot Springs Valley Irrigation District. As the major part of the water from both these sources is used by the same parties through the same irrigation system and devices, the method of distribution is similar for both stored water and natural flow. The Godfrey Dam, the use of which is regulated by agreement among parties affected by its operation, was not used in 1956.

When the outlet gate on Big Sage Reservoir was closed for the year on October 16, 1955, storage was 36,000 acre-feet. The December and January storms increased storage to 71,000 acre-feet by January 24, 1956, and maximum level was reached about April 1 when a depth of about one foot was flowing over the spillway. Capacity to spillway crest is 77,000 acre-feet. Reservoir releases from May 22 to August 14 was mainly for use on lands adjoining Rattlesnake Creek and lands irrigated from the Kelly Ditch. No reservoir releases were necessary to mature the hay crop in the main portion of Hot Springs Valley. On August 14 releases were increased for irrigation of fall pasture and continued until September 17 when they were reduced to a flow sufficient to supply irrigation and stockwater for the Kelly Ditch.

CHANGES IN OWNERSHIP OF LANDS AND WATER RIGHTS

Changes in ownership of lands and water rights which have occurred subsequent to filing "Statement for South Fork Pit River Watermaster Service

Area, Counties of Modoc and Lassen, State of California, for 1956", are listed in the following tabulation:

Tract number	Name of water right owner appearing in 1956 statement	Name of water right owner to appear in 1957 statement	Amount of water per second ft.
7-54	Burrell, Chester F. and Burrell, Arletta	Quinn, William J. and Quinn, Dorothy	0.70
7-79	Dot L. Ranch	Quigley, Norman and Quigley, Joyce	3.82
7-22	Flournoy, Arthur Kenneth & Mary M. Flournoy	Flournoy, Donald F. Flournoy, Robert L. and Flournoy, Warren J.	2.08
7-15	Kaufman, S. K. Kaufman, Mary K.; Kaufman, L. C. and Kaufman, Edith	Oakdale Land Company	2.98
7-75, 7-77	Sutton, M. L. and Sutton, Blanche C.	Snider, John L. and Snider, Elizabeth B.	2.65

APPENDIX A

RECORDS OF WATER SUPPLY

Table No.		Page
A-1	Precipitation at Alturas and Jess Valley, Modoc County, California 1955-1956	A-1
A-2	Daily Mean Discharge of South Fork Pit River near Likely.	A-2
A-3	Daily Mean Releases from West Valley Reservoir .	A-3
A-4	Natural Runoff of South Fork of Pit River at United States Geological Survey Station near Likely	A-4
A-5	Daily Mean Discharge of Pine Creek near Alturas below Power House	A-5
A-6	Daily Mean Discharge of Pit River near Canby . .	A-6
A-7	Daily Mean Releases from Big Sage Reservoir . .	A-7

18.55
1.69
16.86

TABLE A-1

PRECIPITATION AT ALTURAS AND JESS VALLEY,
MODOC COUNTY, CALIFORNIA
1955-1956

In Inches

Month	Alturas		Jess Valley	
	Mean precipitation	1955-1956 precipitation	Mean precipitation	1955-1956 precipitation
October	0.99	0.05	1.43	0.25
November	1.23	1.61	1.91	1.89
December	1.51	4.00	1.91	3.71
January	1.79	3.15	1.91	2.96
February	1.37	1.19	1.90	1.30
March	1.40	0.40	1.89	0.74
April	1.11	0.93	1.66	1.75
May	1.19	1.27	1.93	3.78
June	0.79	0.90	1.52	1.72
July	0.40	1.49	0.34	0.43
August	0.22	0.10	0.25	0.27
September	0.53	0.66	0.69	0.96
TOTALS	12.53	15.75	17.34	19.76

TABLE A-2

DAILY MEAN DISCHARGE OF SOUTH FORK PIT RIVER NEAR LIKELY
April 1 to September 30, 1956

In Cubic Feet Per Second

Day	April	May	June	July	August	September
1	64	221	382	152	107	113
2	72	238	356	154	107	113
3	63	245	340	110	137	111
4	57	313	334	88	158	99
5	57	325	310	84	154	79
6	56	299	270	85	177	79
7	60	282	247	82	196	79
8	69	260	235	71	191	76
9	76	245	226	66	187	78
10	102	337	219	67	185	79
11	118	415	213	72	181	82
12	107	337	202	72	185	82
13	100	277	193	75	169	66
14	111	252	252	78	137	53
15	118	252	277	76	135	53
16	127	267	238	64	133	56
17	127	280	206	64	132	63
18	133	290	181	61	142	72
19	156	310	206	61	185	91
20	177	334	206	66	185	92
21	196	372	171	58	179	86
22	217	425	165	54	144	82
23	242	480	160	53	120	79
24	282	495	147	52	116	82
25	272	488	137	66	115	84
26	270	473	120	118	113	79
27	267	495	147	118	113	55
28	235	470	156	115	113	26
29	213	429	154	113	113	27
30	210	418	154	111	110	22
31	---	405	---	110	113	--
Mean	145	346	220	84.4	146	74.6
Runoff, in acre-feet	8,640	21,280	13,100	5,190	8,990	4,440

Total for period - 61,640 acre-feet.

TABLE A-3

DAILY MEAN RELEASES FROM WEST VALLEY RESERVOIR
April 1 to September 30, 1956

In cubic feet per second

Day	April	May	June	July	August	September
1	N	N	N	55	58	95
2	O	O	O	55	58	95
3				0	111	94
4	R	R	R	0	111	65
5	E	E	E	0	110	65
	L	L	L			
6	E	E	E	0	157	65
7	A	A	A	0	157	64
8	S	S	S	0	156	64
9	E	E	E	0	156	64
10				0	156	63
11				0	155	63
12				0	155	62
13				0	105	40
14				0	105	39
15				0	104	39
16				0	103	38
17				0	103	53
18				0	153	52
19				0	153	52
20				0	152	51
21				0	152	51
22				0	102	51
23				0	102	50
24				0	101	50
25				60	101	49
26				60	100	49
27			55	59	99	0
28			55	59	98	0
29			55	59	97	0
30			55	59	97	0
31				58	96	
Mean			55[a]	16.9	118	59[b]
Release in acre-feet			436	1,040	7,270	3,020

Total for period = 11,766 acre-feet.

a Mean for 4 days
b Mean for 26 days

TABLE A-4

NATURAL RUNOFF OF
SOUTH FORK OF PIT RIVER AT UNITED STATES GEOLOGICAL SURVEY
STATION NEAR LIKELY

April 1 to September 30, 1956
In Acre-Feet

	April	May	June	July	August	September	Total
Impaired discharge at United States Geological Survey Station	8,640	21,280	13,100	5,190	8,990	4,440	61,640
Differential in storage of West Valley Reservoir	330	0	-330	-740	-7,070	-2,320	-10,130
Evaporation from Reservoir Surface	270	280	520	890	670	350	2,980
Estimated consumption in Jess Valley	0	900	1,800	1,200	500	500	4,900
Natural Runoff	9,240	22,460	15,090	6,540	3,090	2,970	95,390

TABLE A-5

DAILY MEAN DISCHARGE OF PINE CREEK NEAR ALTURAS BELOW POWER HOUSE

April 17 to September 24, 1956

In Cubic Feet per Second

Day	April	May	June	July	August	September
1	N	40	74	54	23	14.7
2	O	41	74	54	27	14.7
3		40	75	50	27	14.3
4	R	43	75	48	27	14.7
5	E	41	72	46	27	13.8
	C					
6	O	41	69	44	19.3	10.6
7	R	43	66	43	17.0	13.8
8	D	36	59	41	14.3	17.6
9		35	56	40	14.3	17.2
10		44	56	39	14.3	14.2
11		80	59	38	15.2	10.6
12		60	63	37	17.7	9.4
13		50	62	38	17.7	10.2
14		42	61	33	18.7	13.8
15		41	64	30	20	13.8
16		57	60	26	20	13.8
17	23	48	56	27	20	13.8
18	22	48	54	27	19.3	13.8
19	24	51	65	27	19.3	13.8
20	27	54	62	27	19.3	13.8
21	28	57	59	26	20	13.8
22	28	66	58	26	20	13.8
23	32	76	57	26	20	13.8
24	32	77	56	26	17.6	13.8
25	29	80	56	24	16.0	N
						O
26	29	83	55	27	16.0	
27	30	86	54	24	15.3	R
28	29	77	53	24	14.7	E
29	32	73	52	22	15.3	C
30	33	73	52	20	15.3	O
						R
31	--	74	--	17.0	14.7	D
Mean	28	57	61	33	18.8	13.7
Runoff, in acre-feet	790	3,480	3,640	2,050	1,150	650

Total for period - 11,760 acre-feet.

TABLE A-6

DAILY MEAN DISCHARGE OF PIT RIVER NEAR CANBY
April 1 to September 30, 1956

In Cubic Feet per Second

Day	April	May	June	July	August	September
1	1,410	654	654	46	85	114
2	1,300	582	690	41	78	108
3	1,190	529	660	26	68	102
4	1,040	570	648	37	61	134
5	936	576	546	124	46	141
6	870	624	496	85	44	117
7	798	684	441	88	44	114
8	762	726	405	80	44	108
9	750	750	370	78	50	105
10	738	762	271	90	59	72
11	756	732	215	120	46	61
12	810	744	152	144	44	59
13	870	852	187	155	50	46
14	864	960	203	130	57	39
15	810	1,080	219	120	90	52
16	804	1,100	266	141	129	134
17	774	1,010	355	141	114	120
18	738	870	452	117	151	96
19	708	720	420	105	134	111
20	690	648	375	114	102	90
21	696	660	295	124	90	96
22	714	672	276	93	63	138
23	726	666	276	99	57	144
24	744	654	235	88	52	152
25	768	660	199	80	61	117
26	786	678	148	78	75	120
27	780	660	134	70	82	102
28	768	642	141	75	120	99
29	774	512	120	78	187	96
30	732	564	65	99	155	96
31	----	540	----	88	96	----
Mean	837	712	330	95.3	81.5	103
Runoff, in acre-feet	49,800	43,800	19,660	5,860	5,010	6,120

Total for period - 130,250 acre-feet.

TABLE A-7

DAILY MEAN RELEASES FROM BIG SAGE RESERVOIR

April 1 to September 30, 1956

In Cubic Feet per Second

Day	April	May	June	July	August	September
1	N	N	30	30	29	61
2	O	O	30	30	29	60
3			30	29	29	60
4	R	R	30	29	29	60
5	E	E	30	29	29	60
	L	L				
6	E	E	30	29	29	60
7	A	A	30	29	29	60
8	S	S	30	29	29	60
9	E	E	30	29	29	60
10			30	29	29	60
11			30	29	29	60
12			30	29	29	60
13			30	29	29	60
14			30	29	61	60
15			30	29	61	60
16			30	29	61	60
17			30	29	61	22
18			30	29	61	22
19			30	29	61	22
20			30	29	61	22
21			30	29	61	22
22		6	30	29	61	22
23		6	30	29	61	22
24		6	30	29	61	22
25		6	30	29	61	21
26		6	30	29	61	21
27		6	30	29	61	21
28		6	30	29	61	21
29		30	30	29	61	21
30		30	30	29	61	21
31		30	--	29	61	--
Mean		14.7*	30	29	48	42
Release, in acre-feet		262	1,790	1,790	2,930	2,510

Total for period - 9,282 acre-feet.

*Mean for 10 days

PLATE I

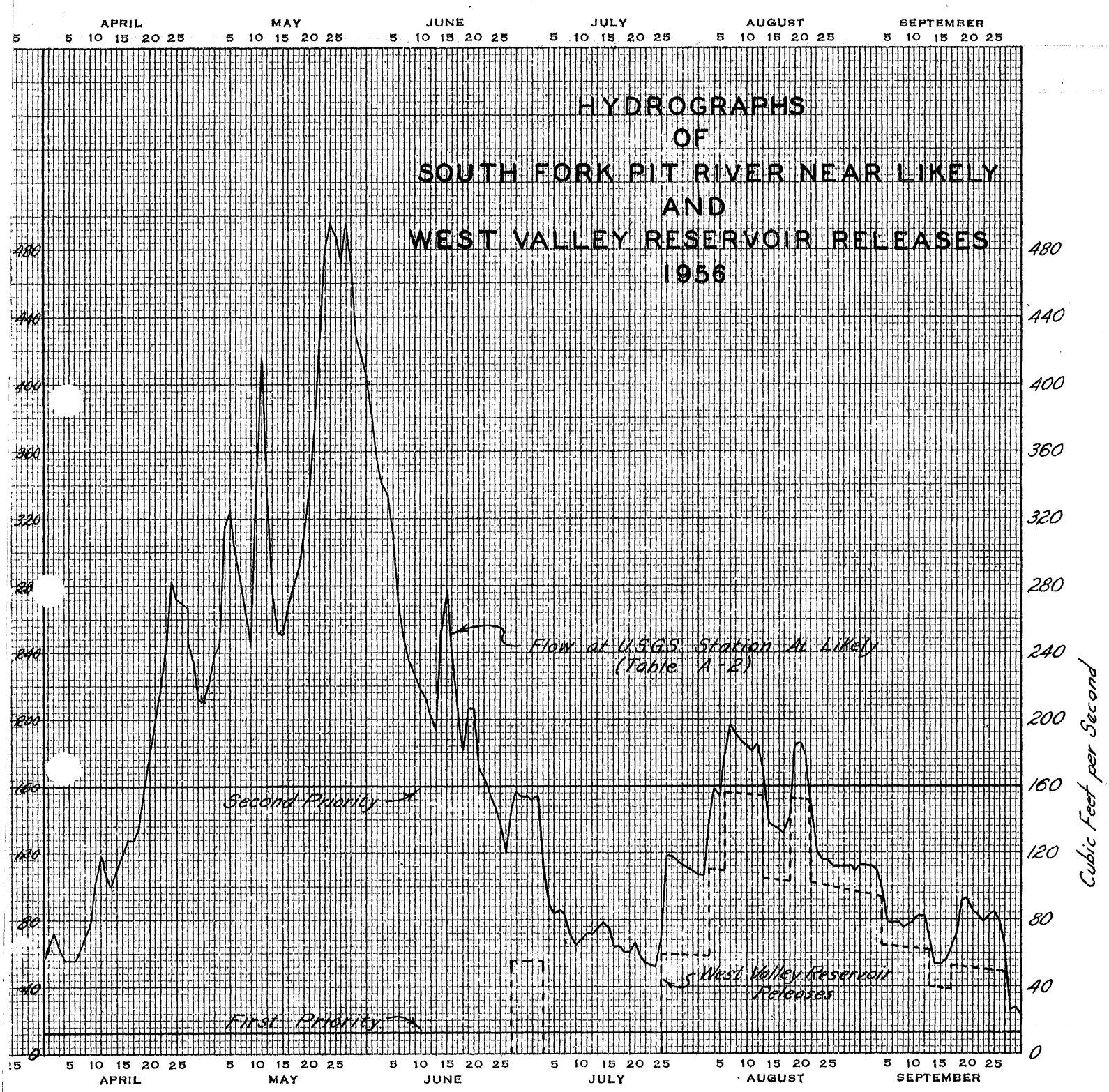

HYDROGRAPHS
OF
SOUTH FORK PIT RIVER NEAR LIKELY
AND
WEST VALLEY RESERVOIR RELEASES
1956
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
5 10 15 20 25
480
440
400
360
320
280
240
200
160
120
80
40
0
Cubic Feet per Second
Flow at U.S.G.S. Station At Likely
(Table A-2)
Second Priority
First Priority
West Valley Reservoir
Releases

PLATE 2

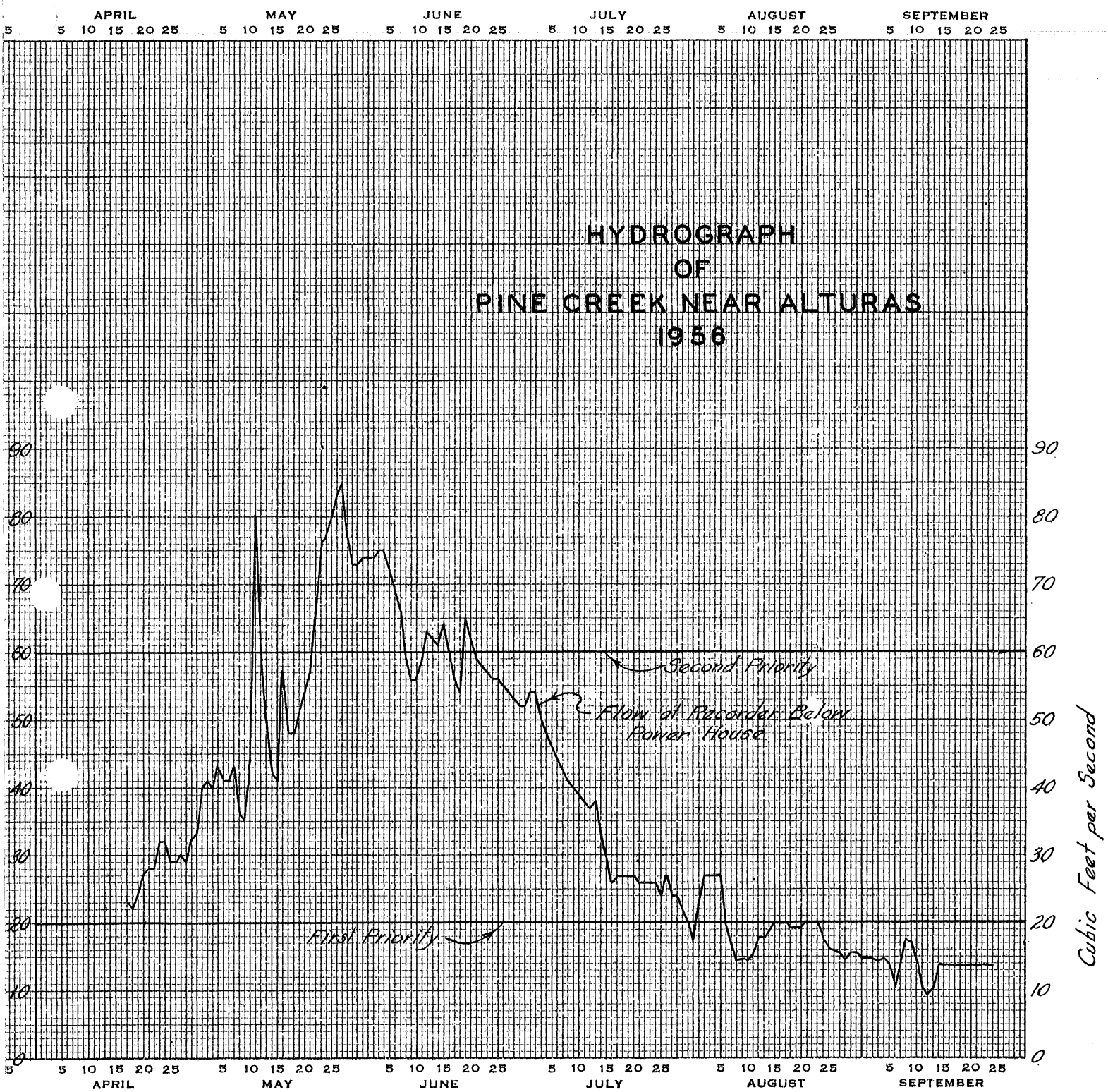
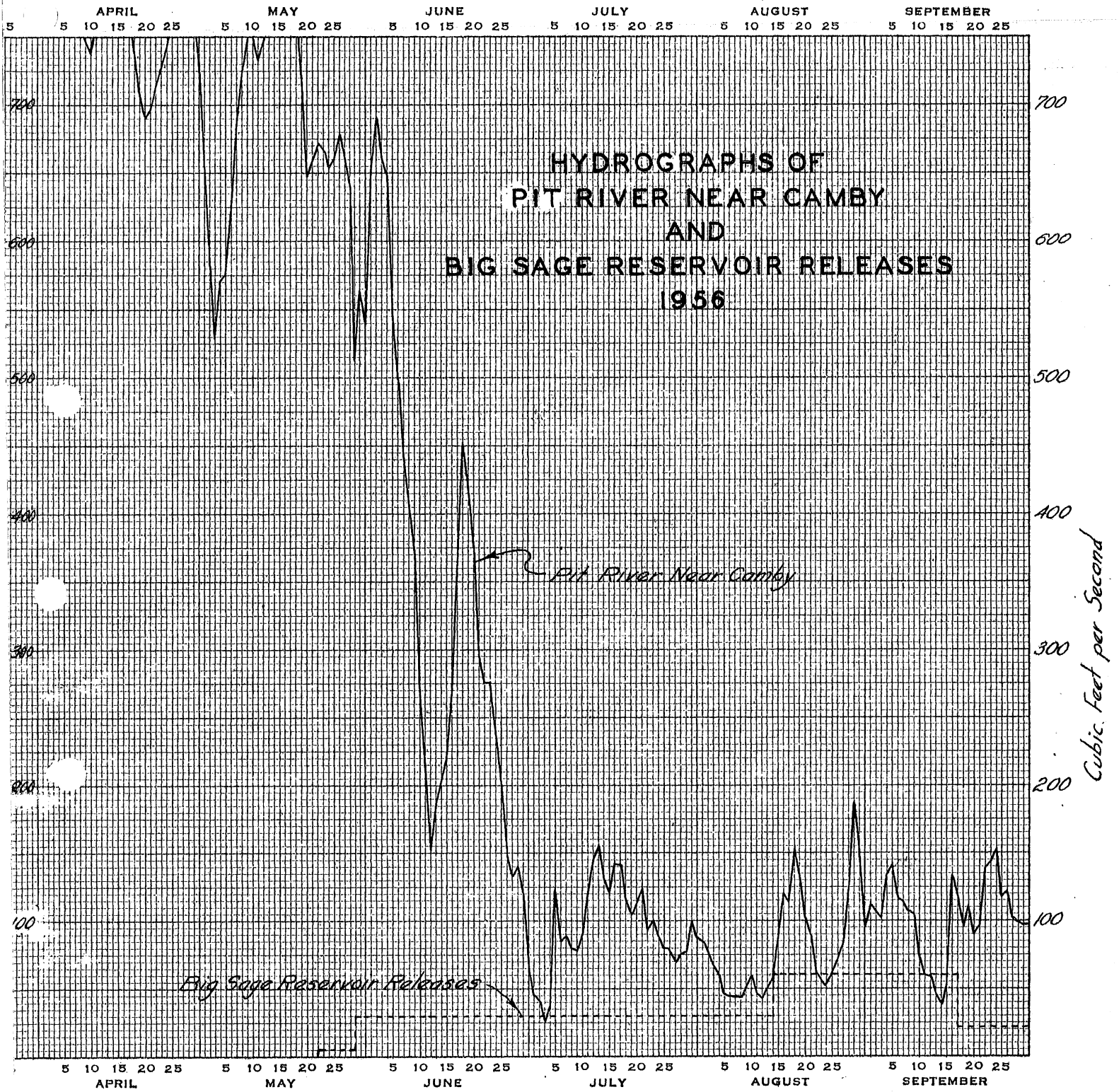

HYDROGRAPH
OF
PINE CREEK NEAR ALTURAS
1956
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
5 10 15 20 25
0
10
20
30
40
50
60
70
80
90
Cubic Feet per Second
Second Priority
First Priority
Flow at Recorder Below
Power House

PLATE 3


HYDROGRAPHS OF
PIT RIVER NEAR CAMBY
AND
BIG SAGE RESERVOIR RELEASES
1956
APRIL
MAY
JUNE
JULY
AUGUST
SEPTEMBER
5 10 15 20 25
700
600
500
400
300
200
100
Cubic Feet per Second
Pit River Near Camby
Big Sage Reservoir Releases