

Assumptions:

- * Streamflows were from the 26 Apr ESP run, which uses current basin conditions combined with 44 historical weather patterns (temperatures and precipitation) to produce 44 ESP hydrographs for 2005.
- * Starting elevations are observed April 30, 2005 elevations.
- * Grand Coulee tries to meet 130,000 cfs in May while not drafting below 1240 ft. In June the project refills to 1285 ft in all years, and fills above 1285 ft if Priest Rapids flows are above 125,000 cfs. Summer lake targets are 1285.0 ft in July and 1278 ft in August (per the BiOp).
- * Hungry Horse operates in May for a controlled refill by 30 June and meets minimum flow of 3250 cfs at Columbia Falls. The project drafts to 3540 ft by 31 Aug.
- * Brownlee operates to flood control elevations, which is elevation 2077 ft (or full pool) and drafts some in July - August.
- * Dworshak targets full in June and drafts to 1534 ft by 31 Aug.
- * Libby targets full in June while maintaining a minimum flow in May of 10,800 cfs and 10,400 cfs out in June for sturgeon, based on a Tier 2 sturgeon pulse. Libby drafts to 2439 ft by 31 Aug, with a minimum bull trout flow of 7,000 cfs.

Results:

Priest Rapids Meets the Following Flow Objectives:

Month	Occurrences out of 44 Years	Average Flow for 44 Years (kcfs)	Flow Objective* (kcfs)
May	41	132	130
Jun	20	121	125

* Note: Flow objectives listed may be less than what is prescribed in the BiOp but were used for modeling.

Lower Granite Meets the Following Flow Objectives:

Month	Occurrences out of 44 Years	Average Flow for 44 Years (kcfs)	Flow Objective* (kcfs)
May	5	75	85
Jun	4	54	73
Jul	0	29	50
Aug 15	0	26	50
Aug 31	0	25	50

McNary Meets the Following Flow Objectives:

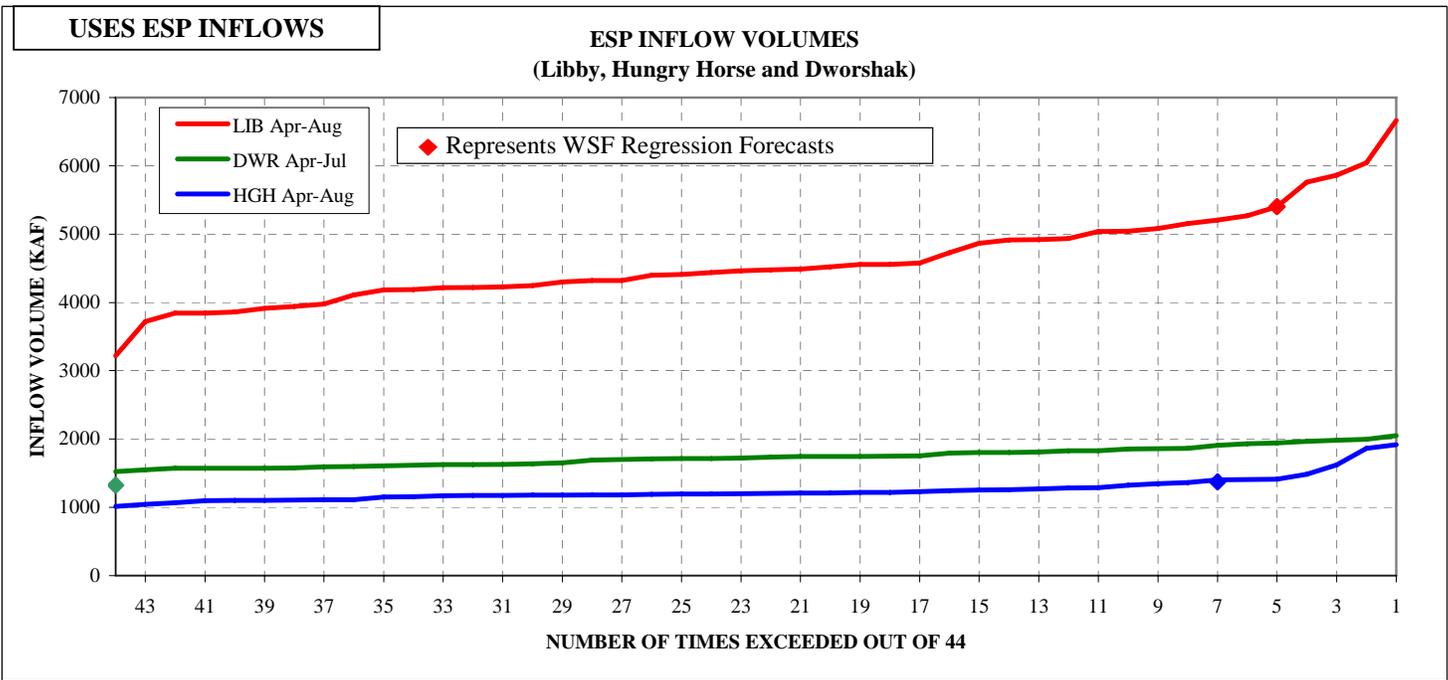
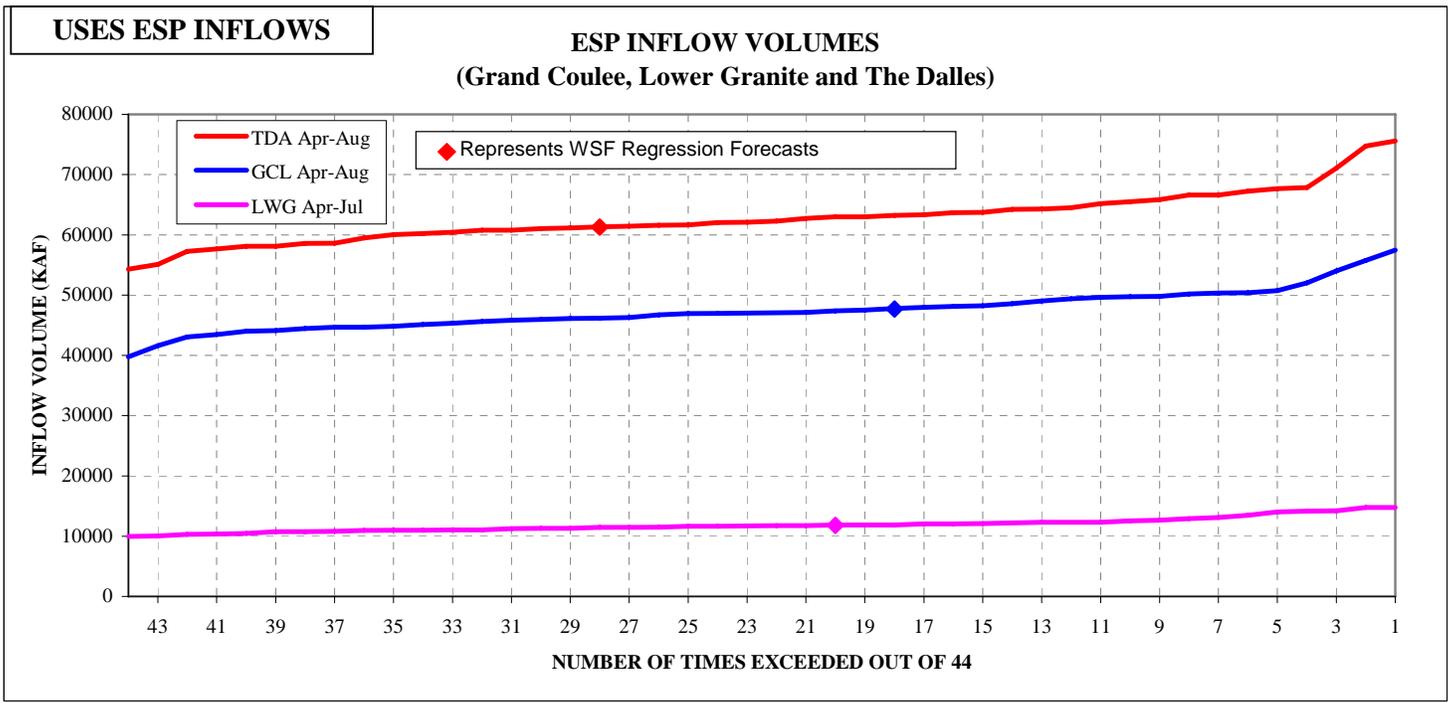
Month	Occurrences out of 44 Years	Average Flow for 44 Years (kcfs)	Flow Objective* (kcfs)
May	6	208	220
Jun	6	178	220
Jul	2	163	200
Aug 15	0	147	200
Aug 31	0	140	200

Projects Refill by 30 June:

Month	Occurrences out of 44 Years	Average Elevation on 30 Jun for 44 Years
Libby	19	2455
Hungry Horse	44	3560
Grand Coulee	16	1287
Dworshak	44	1600

Period Average Flows (kcfs):

	Obs FEB 1-28	Obs MAR 1-28	Obs APR 1-15	Obs APR 16-30	MAY 1-31	JUN 1-30	JUL 1-31	AUG 1-15	AUG 16-31
LIB	4.0	4.0	4.0	4.0	10.8	12.9	15.5	17.2	17.2
HGH	1.0	0.9	2.1	7.2	5.0	4.2	5.5	5.6	4.4
GCL	101	91	76	82	116	109	126	115	110
PRD	111	100	85	95	132	121	131	118	112
DWR	1.6	1.6	3.6	5.4	11.3	4.2	10.1	10.1	9.4
BRN	10	11	13	12	12	10	8	10	11
LWG	21	22	39	45	75	54	29	26	25
MCN	134	123	132	147	208	178	163	147	140
TDA	140	125	136	143	207	172	161	146	140
BON	138	130	143	153	209	174	163	147	141



Volume Comparison Table (ESP versus Regression (May Early Bird)):

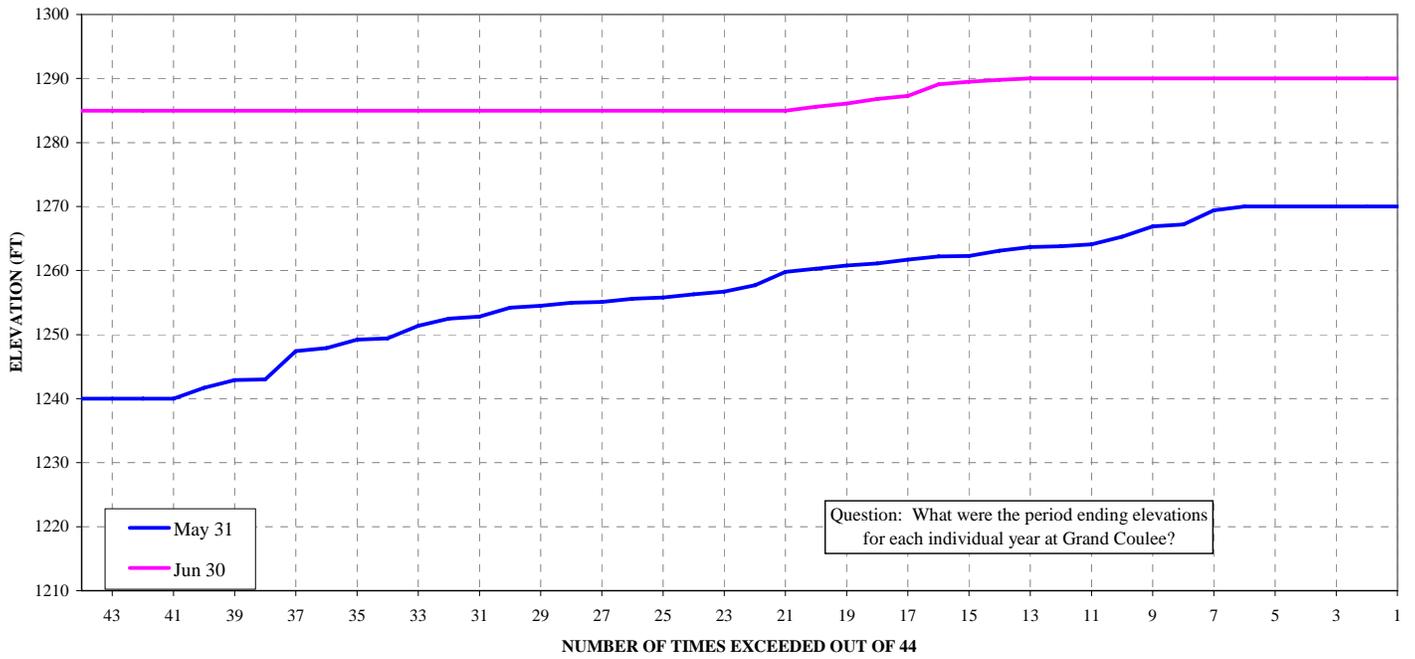
Forecast Period	Official WSF (Regression)			ESP Volumes				
	Volume (kaf)	Percent of Average	30 year Average (kaf)	10% Exceedance Probability	30% Exceedance Probability	50% Exceedance Probability	70% Exceedance Probability	90% Exceedance Probability
Grand Coulee	47700	79%	60290	50600	48600	47000	45800	44000
Lower Granite	11800	55%	21550	13800	12200	11700	11200	10500
The Dalles	61300	66%	93090	67500	64300	62200	60800	58100
Hungry Horse *	1372	66%	2070	1410	1260	1200	1170	1100
Libby **	5401	86%	6248	5260	4880	4460	4220	3870
Dworshak **	1325	50%	2645	1920	1800	1720	1630	1570

* USBR Official Forecast (April Final)

** Corps Official Forecast (April Final)

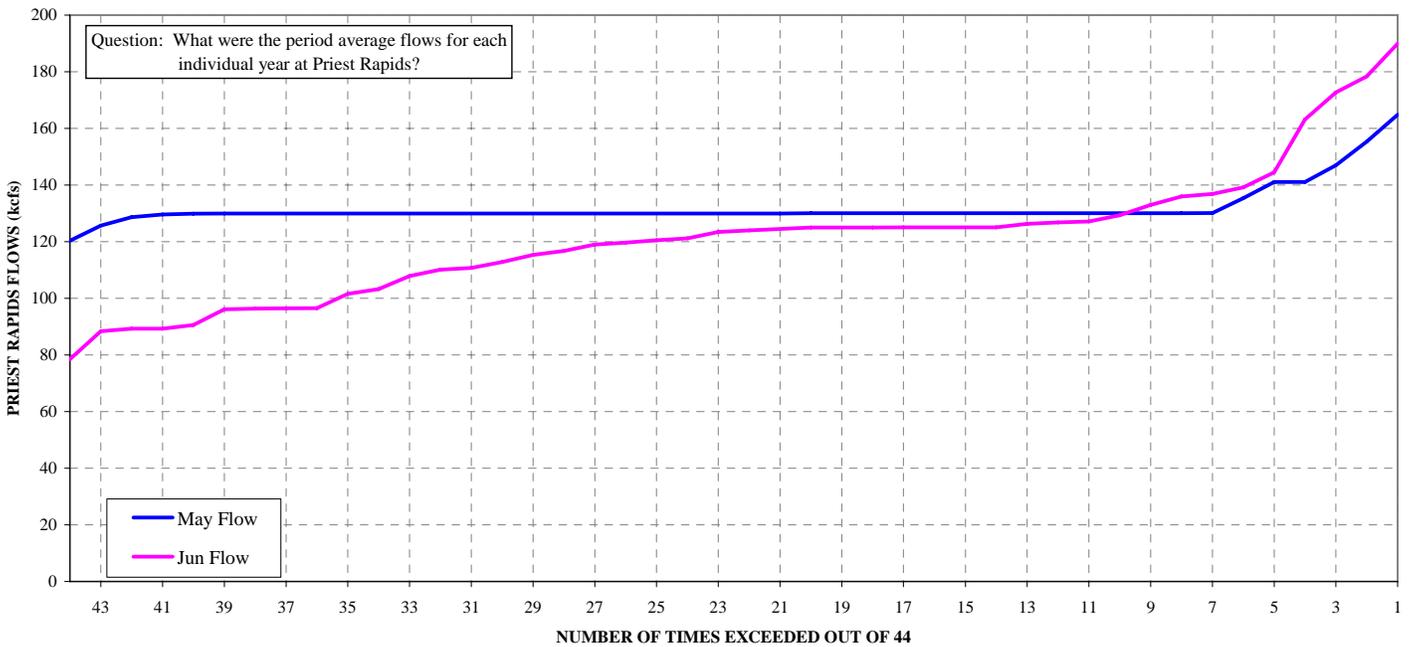
USES ESP INFLOWS

**GRAND COULEE ESP
LAKE ROOSEVELT ELEVATIONS**



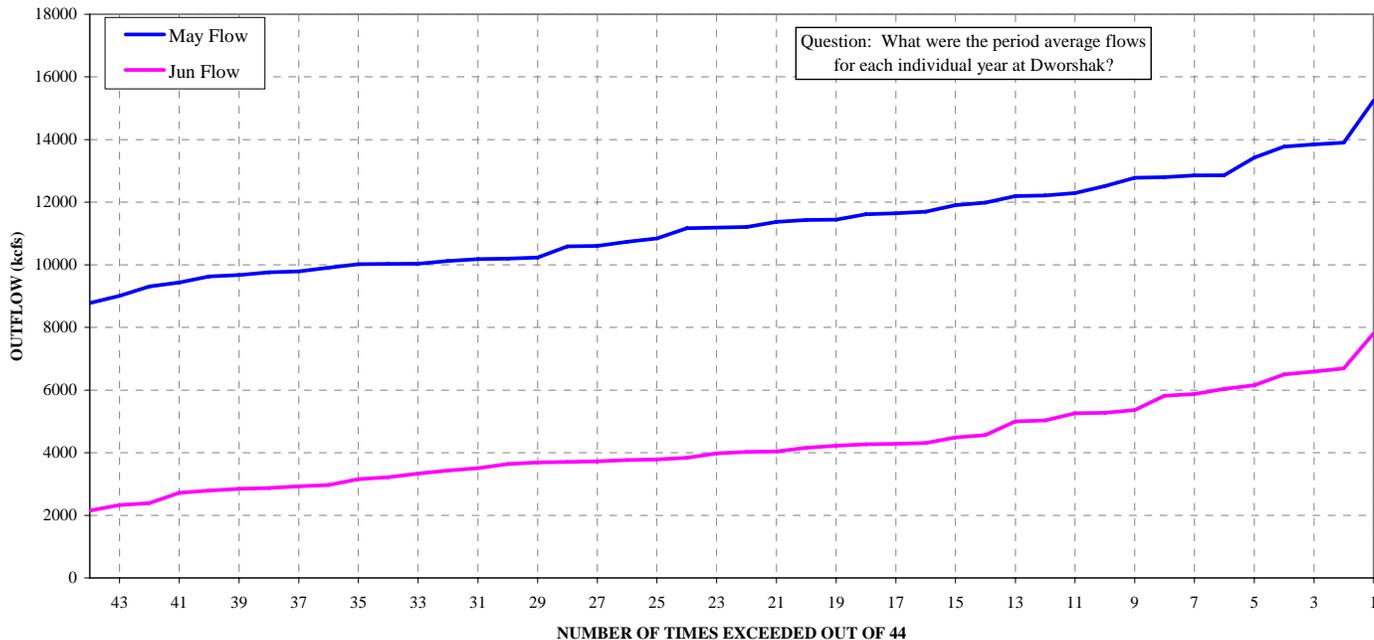
USES ESP INFLOWS

**PRIEST RAPIDS ESP
APRIL - JUNE FLOWS**



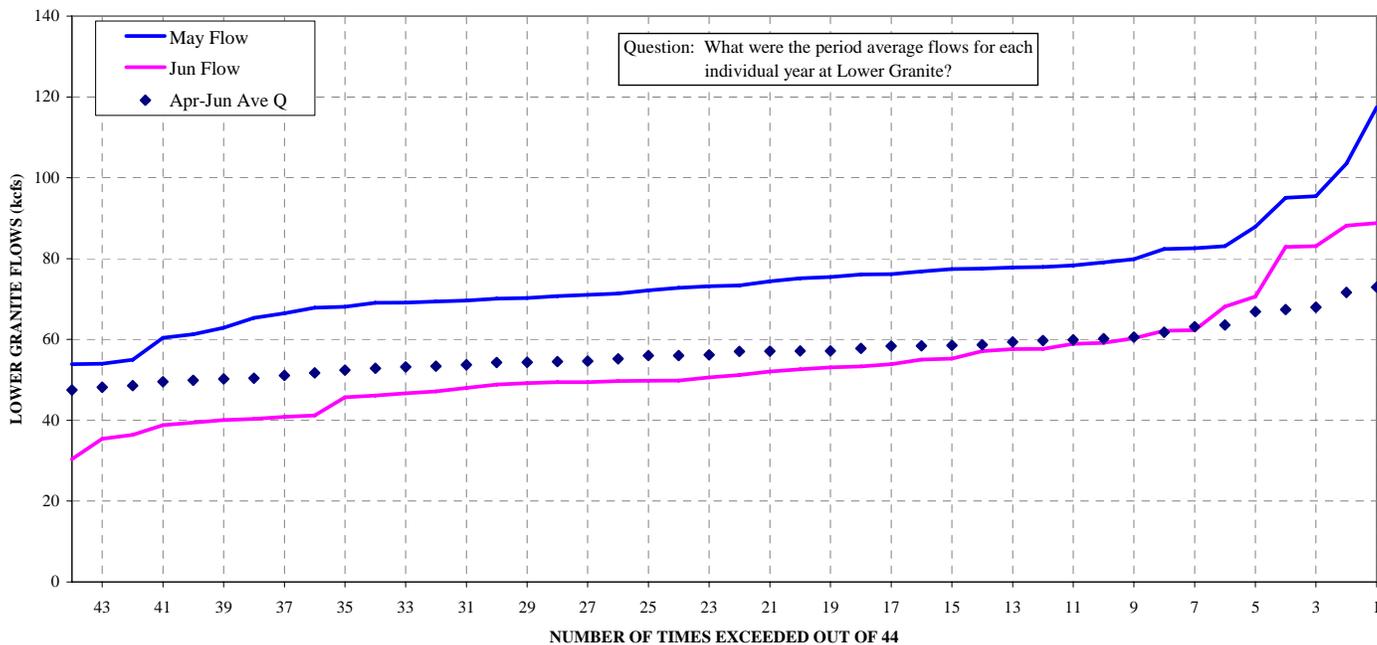
USES ESP INFLOWS

**DWORSHAK ESP
OUTFLOWS**



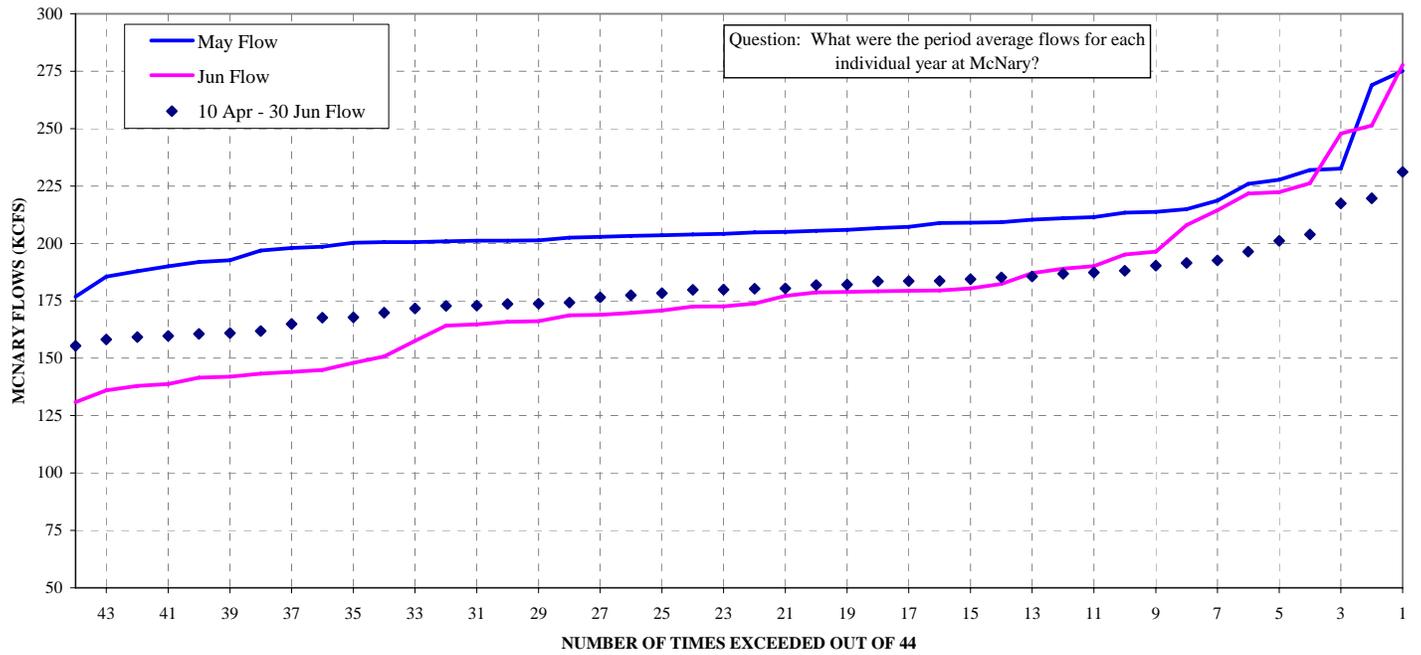
USES ESP INFLOWS

**LOWER GRANITE ESP
APRIL - JUNE FLOWS**



USES ESP INFLOWS

**MCNARY ESP OUTFLOW
APRIL - JUNE AVERAGES**



USES ESP INFLOWS

**MCNARY ESP OUTFLOW
JUL-AUG AVERAGES**

