

Summary of February 2003 QADJ Model Runs

14-Feb-03

Assumptions:

- * Streamflows were adjusted to the February Final Water Supply Forecast and shaped 59 different ways based on observed historical runoff.
- * Starting Elevations were actual Jan 31 observed data.
- * Grand Coulee operates to meet 70 kcfs at Priest Rapids Feb - Apr 15. Coulee attempts to meet McNary flows May-June.
- * Hungry Horse operates to VARQ, meets minimum flows at Columbia Falls, targets full in June, and drafts to 3540 ft by 31 Aug.
- * Brownlee operates to flood control elevations.
- * Dworshak targets full in June, releases a maximum of 13,000 cfs in July - August for LWG and targets 1520 ft by 31 Aug.
- * Libby operates on 4 kcfs minimum flow or VARQ flood control Feb - Apr. Operates on 4 kcfs minimum flow in May, 6 kcfs in June, targets full in July, and drafts to 2439 ft by 31 Aug.

Results:

Priest Rapids Meets Flow Objectives of 70 kcfs Jan - Apr1 and 135 kcfs Apr2 - Jun:

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
Feb	59	71
Mar	42	75
Apr1	59	78
Apr2	3	91
May	55	152
Jun	11	99

Grand Coulee meets an Apr 15 target elevation of 1283.3 ft in 18 out of 59 years with an average elevation for the 59 years of 1270.8 ft.

Lower Granite Meets Flow Objectives of 85 kcfs in Apr - May, 73.3 kcfs in June and 50 kcfs in Jul - Aug:

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
Apr2	2	55
May	26	82
Jun	26	73
Jul	5	40
Aug1	0	31
Aug2	0	24

McNary Meets Flow Objectives of 220 kcfs in Apr2 - Jun and 200 kcfs in Jul - Aug:

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
Apr2	1	140
May	43	218
Jun	4	171
Jul	0	131
Aug1	0	124
Aug2	0	116

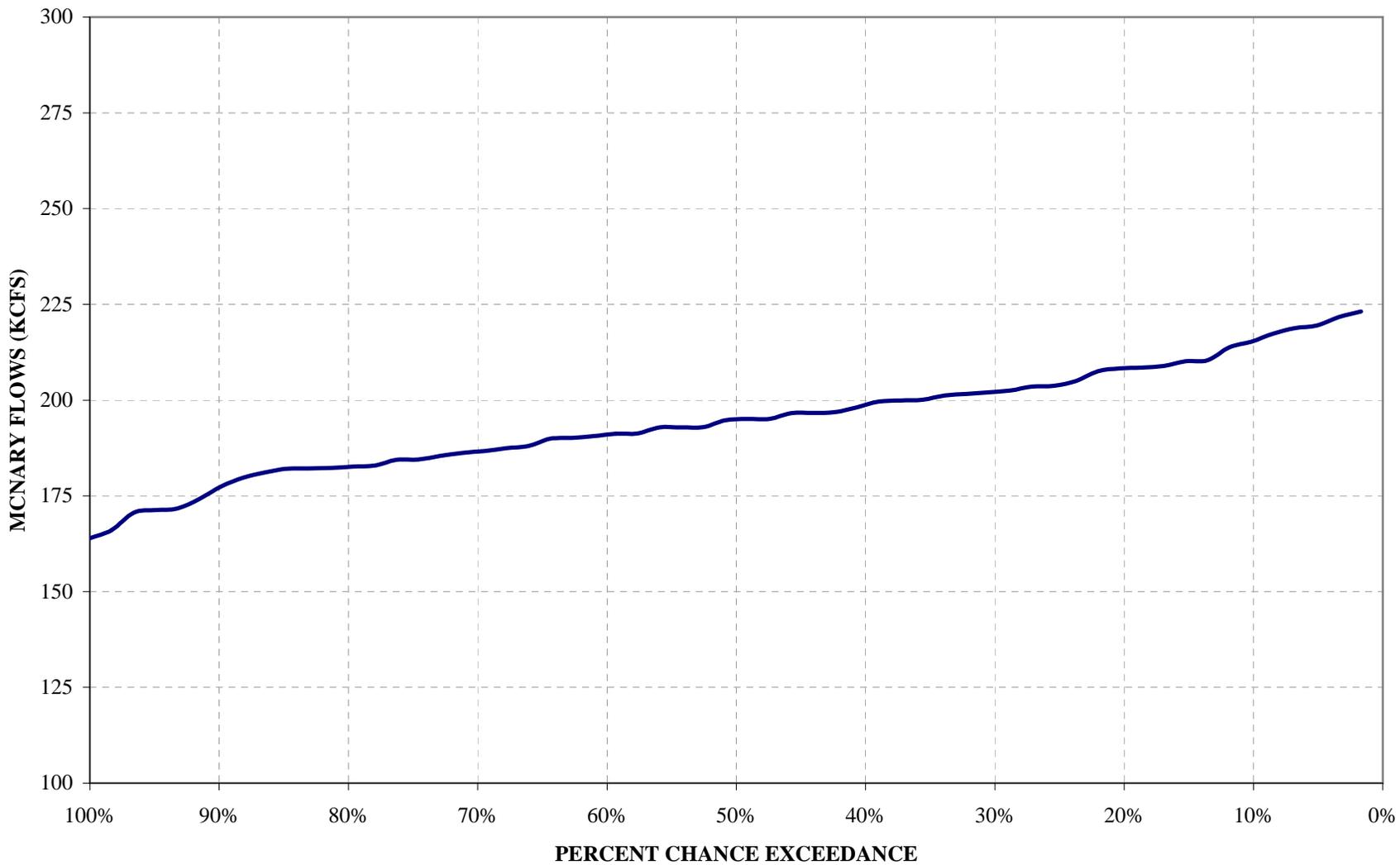
Bonneville Meets Flow Objectives of 125 kcfs in Feb - Apr:

Month	Occurrences out of 59 Years	Average Flow for 59 Years (kcfs)
Feb	12	118
Mar	18	124
Apr1	45	143
Apr2	51	160

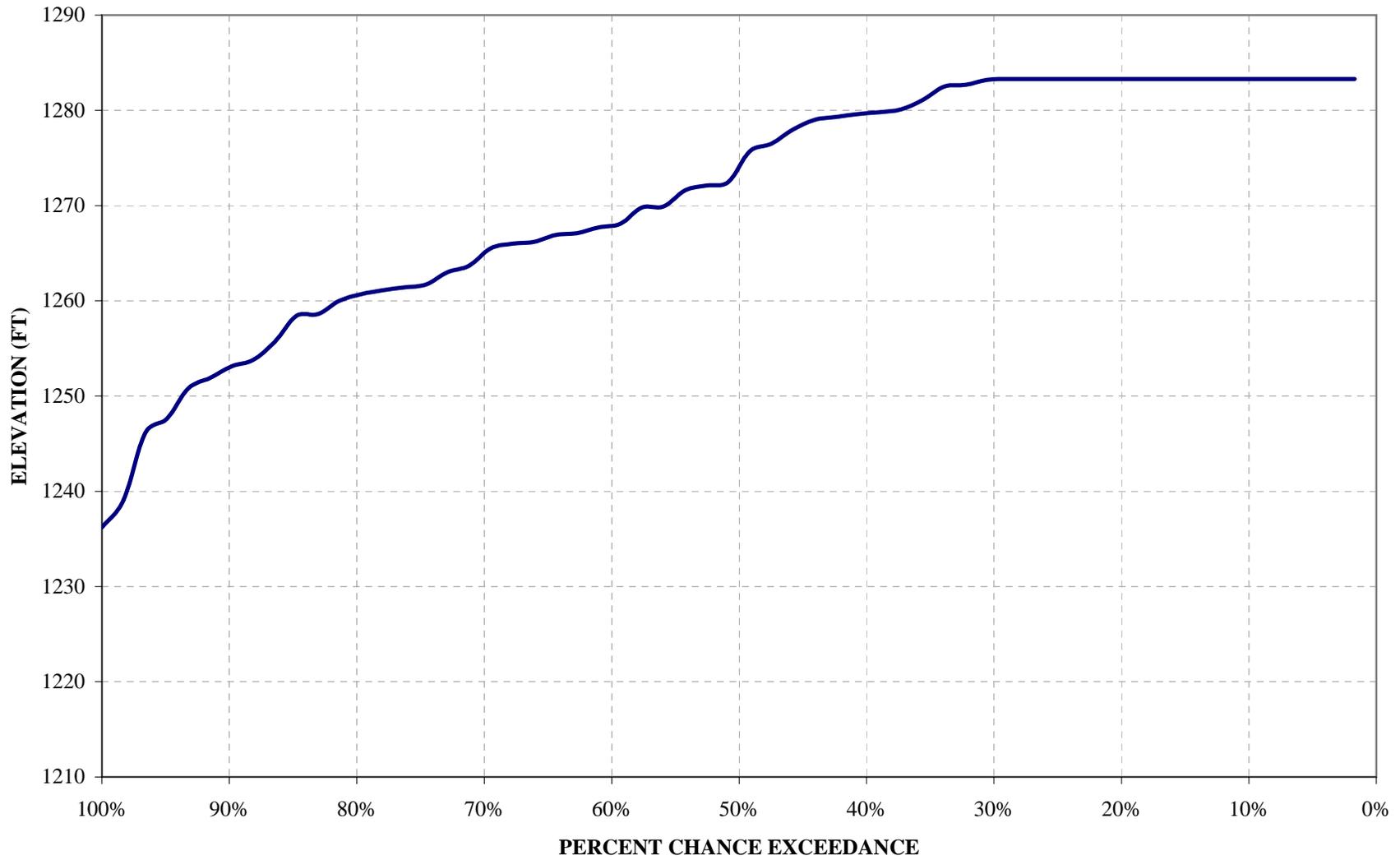
Projects Refill by 30 June:

Month	Occurrences out of 59 Years	Average Elevation on 30 Jun for 59 Years
Libby	54	2459
Hungry Horse	28	3558
Grand Coulee	59	1288
Dworshak	54	1600

**MCNARY OUTFLOW
MAY-JUNE AVERAGE**



**GRAND COULEE
APR 15 ELEVATION**



BONNEVILLE OUTFLOW

FEB, MAR FLOWS

