Exercise to determine Number of days able to Transit POW @ 12.8m and 12.5m Draft. - 2002

Conditions

1 Required minimum 3 hour window, from C1,C2 - Nardana.

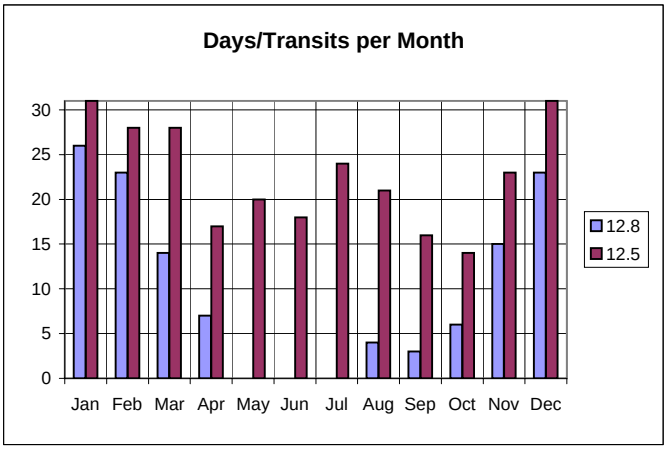
2 Discounted Transits requiring Anchor time at Goods.

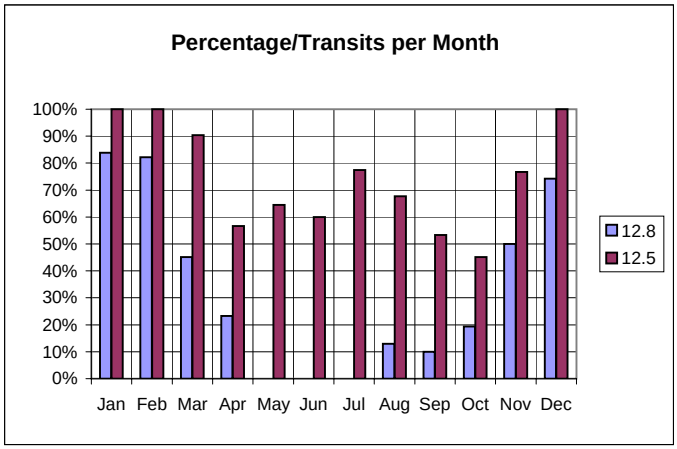
3 Depending on length/time of window allowed upto - 0.1m above minimum to allow for Tides not making predictions.

4 Only included Days/Tides that allowed for both East and West Transits.

Datum :	
Varzin	10.5
Goods	11.3
Nardana	11.6
+10% of Draft - Goods and Nardana	

	Draft	1	2	3	4	5	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		
Jan	12.8	1	1	1	1	x	x	1	1	1	1	1	1	1	1	1	1	1	x	x	x	1	1	1	1	1	1	1	1	1	1	26	84%
31	12.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	100%
Feb	12.8	1	x	x	1	1	1	1	1	1	1	1	1	1	1	1	x	x	x	1	1	1	1	1	1	1	1	1	1				23	82%
28	12.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				28	100%
Mar	12.8	1	x	x	x	1	1	1	1	1	1	x	x	x	1	x	x	x	x	x	x	1	1	1	1	1	1	x	x	x	X	X	14	45%
31	12.5	1	x	1	1	1	1	1	1	1	1	1	1	1	1	1	1	x	x	1	1	1	1	1	1	1	1	1	1	1	1	1	28	90%
Apr	12.8	x	x	1	1	1	1	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1	1	x	x	x	x	x	x	x	x		7	23%
30	12.5	x	1	1	1	1	1	1	1	x	x	x	x	x	x	x	x	x	1	1	1	1	1	1	x	x	x	1	1	1	1		17	57%
May	12.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	0%
31	12.5	1	1	1	1	1	1	x	x	x	x	x	x	1	1	1	1	1	1	1	1	1	x	x	x	x	x	1	1	1	1	1	20	65%
Jun	12.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		0	0%
30	12.5	1	x	x	1	1	x	x	x	x	x	x	1	1	1	1	1	1	x	x	x	1	1	1	1	1	1	1	1	1	x		18	60%
Jul	12.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	0	0%
31	12.5	x	x	1	1	1	1	1	1	1	1	1	1	1	x	x	x	x	1	1	1	1	1	1	1	x	1	1	1	1	1	1	24	77%
Aug	12.8	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	1	1	1	1	x	x	x	x	x	x	x	x	x	x	x	x	4	13%
31	12.5	1	1	1	1	1	1	1	1	1	1	x	x	x	1	1	1	1	1	1	1	1	x	x	x	x	x	x	x	1	1	1	21	68%
Sept	12.8	x	x	x	x	x	x	x	x	x	x	x	x	1	1	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		3	10%
30	12.5	1	1	1	1	1	1	1	x	x	x	x	1	1	1	1	1	1	x	x	x	x	x	x	x	x	x	x	1	1	1		16	53%
Oct	12.8	x	x	x	x	x	x	x	x	x	x	1	1	1	1	1	1	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	6	19%
31	12.5	1	1	x	x	x	x	x	x	x	1	1	1	1	1	1	x	x	x	x	x	x	x	x	x	x	1	1	1	1	1	1	14	45%
Nov	12.8	1	1	1	1	1	1	x	1	1	1	1	x	x	x	x	x	x	x	x	x	x	1	1	x	1	1	1	x	x	x		15	50%
30	12.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	x	x	x	x	x	x	x	1	1	1	1	1	1	1	1	1		23	77%
Dec	12.8	x	x	x	1	1	1	1	1	1	1	1	1	1	1	x	x	1	1	1	1	1	1	1	1	1	x	x	x	1	1	1	23	74%
31	12.5	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	31	100%
365																																		
																																Total transits at 12.8m Draft -	121	33%
																																Total transits at 12.5m Draft -	271	74%





Extra Tides (one way Transits)

March	2 x WB @ 12.8m
	2 x EB @ 12.5m
April	6 x EB @ 12.5m
May	2 x WB @ 12.8m
	4 x WB @ 12.5m
June	6 x WB @ 12.8m
July	1 x WB @ 12.5m
August	2 x WB @ 12.5m
	2 x EB @ 12.5m
November	3 x WB @ 12.8m
	1 x EB @ 12.8m
	6 x WB @ 12.5m

Probability of Tides/Drafts From above data

12.2m	100%	365
12.3m	91%	334
12.4m	81%	296
12.5m	74%	271
12.6m	60%	221
12.7m	40%	147
12.8m	33%	121

The removal of the required 10% at Nardana would increase number of transits considerably.