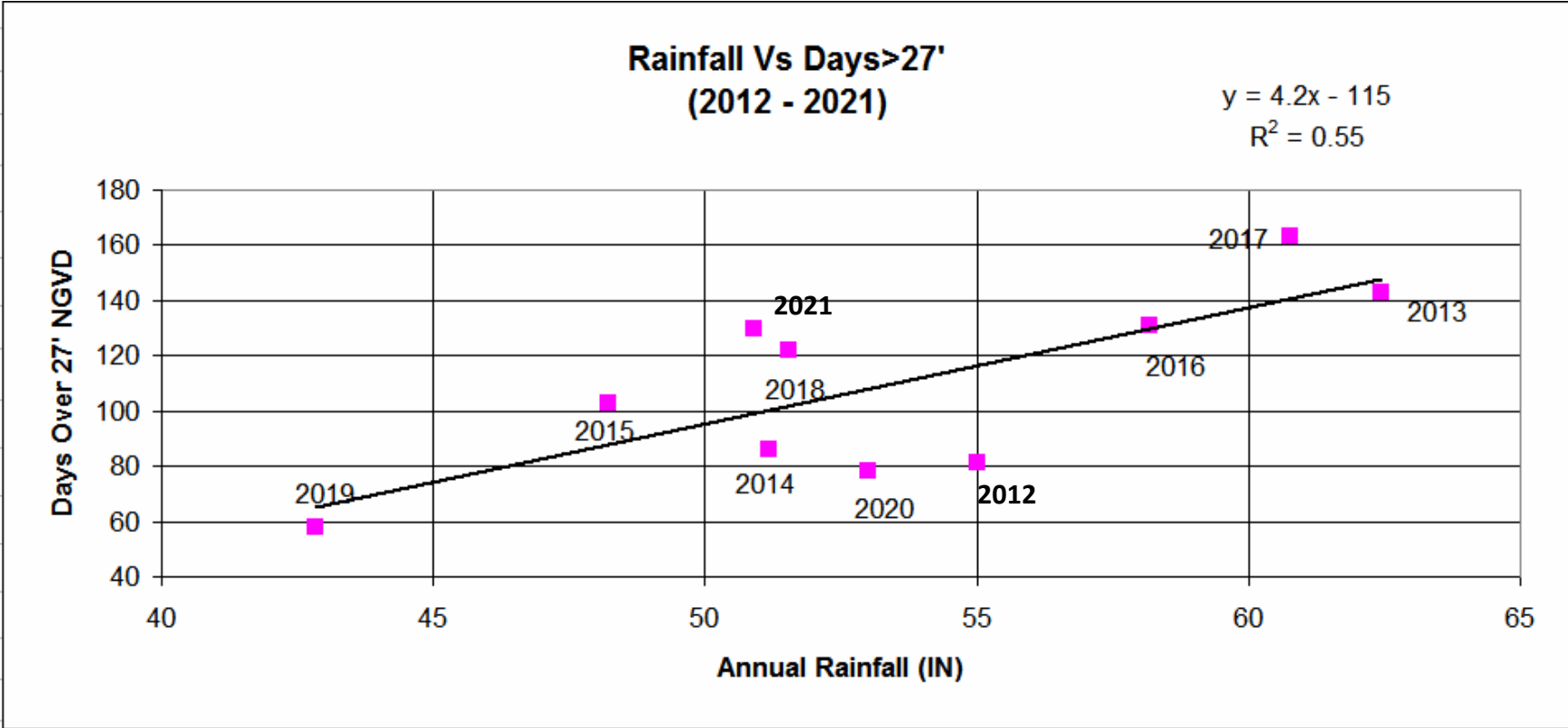


Trends Analysis of Lake Sammamish Water Levels
Prepared by M.Nizlek for WSSA
Oct. 2021

Not for Distribution

Recent History of Lake Samm. Water Levels



Prepared by M.Nizlek using USGS and King County Online Gage Info.

WSSA - Lake Sammamish Water Level Monitoring Data

Status as of 10/3/2021

Forecast days over 27ft. based on historic rainfall patterns
81 **10** ← Forecast Days 1+ inches

Period	Comparison Factors					(Intensity)	(Duration)	(Accum.)	100%	Percent Rainfall Typical WYTD
	No. Days in Period	0.6 inch+ Days	Days Over 27 Ft.	DaysOvr 27 per .6 days	Days Over 28 Ft.	1 Inch+ Days	3 Day Runs > 2" Total	WYTD* Rainfall	55	Forecast annual rainfall
Water Yr										
2021	365	22	81	4	20	10	0	55	<<< Routine Maintenance + Willow Plantings	
2020	366	23	78	3	35	6	3	53	<<< Routine Maintenance	
2019	365	20	58	3	0	2	0	43	<<< Routine Maintenance	
2018	365	24	122	5	18	11	0	52	<<< Routine Maintenance	
2017	365	29	163	6	18	12	1	61	<<< Routine Maintenance	
2016	366	26	131	5	27	13	4	58	<<< Routine Maintenance	
2015	365	25	103	4	0	9	1	48	<<< Routine Maintenance	
2014	365	29	86	3	14	9	4	51	<<< 50% of sediment removed + Maint.	
2013	365	28	143	5	2**	13	3	62	<<< Rock weir removed + Maintenance	
2012	366	25	130	5	13	10	0	51	<<< Return to Annual Maintenance	
2011	365	26	226	9	69	13	0	59		

** - I checked a 2nd source and confirmed this low number

OBSERVATIONS

as of **10/3/2021**

RAINFALL

- HAS BEEN AVERAGE

- At about **100%** through the water year, the estimated total annual rainfall is - **55** inches. Historic average = 56"

RAIN INTENSITY & DURATION

- There have been **10** days of over an inch of rain. This projects to an estimate of **10** days for the year.
 - AND there have been **0** day(s) of 0.6 inches or more rainfall over 3 consecutive days span.

PERSISTENCE OF HIGH LAKE LEVELS

- Of a total **365** days since October 1st, **81** have witnessed lake levels over 27 ft.; which is **22%** of the time.
 - This converts to an **expected annual days over 27 ft. of 81** days for the year. **The County goal is 94 days per year.**
 - There have been **20** days with lake levels exceeding **28 ft.**