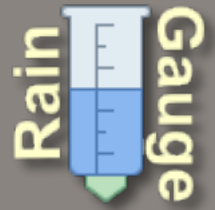




Rain Gauge LOG 2023

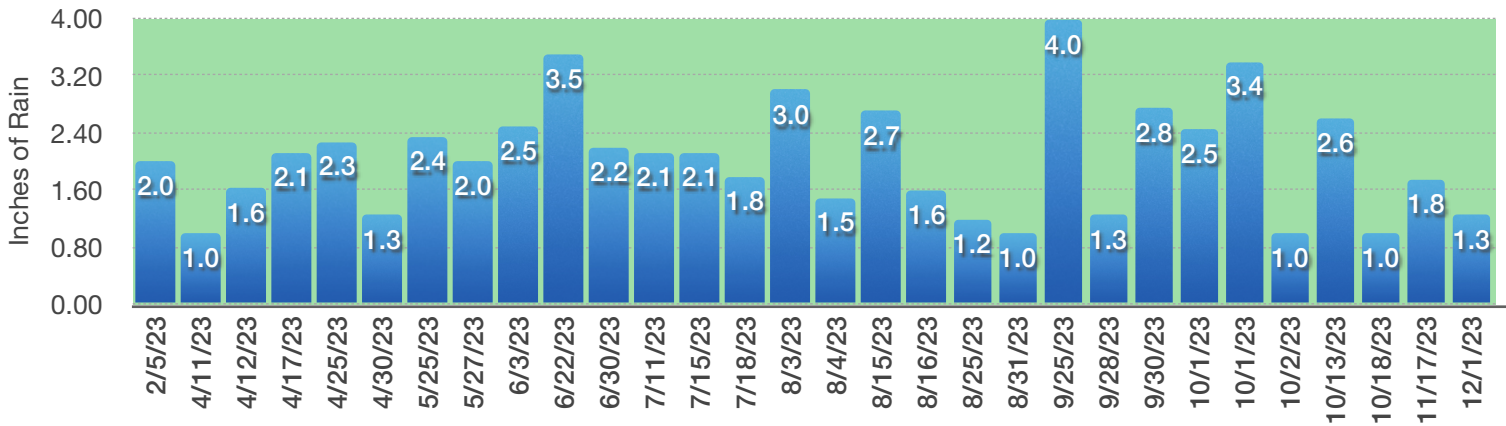
For Recording Rain Events over 1"



These are readings gathered from Sugarhill resident's rain gauges. Please don't expect perfection. **We won't be individually listing totals less than 1"**. We will list 1"+ accumulations of small events that build up in the gauge (the accuracy of small events accumulated over time is dependent on evaporation in the gauge from day to day). The main purpose for this log is to monitor Sugarhill drainage systems and retention as it relates to the size of specific major events.

Return Link: sugarhilljensenbeach.com

RAIN READINGS (INCHES) CHART



2023 STATISTICS

| TOTAL ALL 1"+ EVENTS SO FAR | HIGHEST OF ALL | ANNUAL AVERAGE |
|-----------------------------|----------------|----------------|
| 61.33 | 4.00 | 49.30 |

Red if over annual average.

LOG READINGS & COMMENTS

| READ & EMPTY DATE | APX. RAIN DURATION TIME | INCHES | NOTES | SUGARHILL DRAINAGE |
|-------------------|-------------------------|--------|---|---|
| 2/5/23 | 25h | 2.00 | First rain of the year. Most of it in less than 8 hours. | |
| 4/11/23 | 1560h | 1.00 | 65 days and barely 1" | All normal canals dry and tennis court lakes very low |
| 4/12/23 | 72h | 1.63 | On and off rain over 3 days | |
| 4/17/23 | 5h | 2.125 | 3 hr violent storm on 4/16 with tornado watch and exceptional lightning | Drain canals cleared all the water within 1/2 hour. |

| READ & EMPTY DATE | APX. RAIN DURATION TIME | INCHES | NOTES | SUGARHILL DRAINAGE |
|-------------------|-------------------------|--------|--|---|
| 4/25/23 | 192h | 2.28 | Much of this rain 1.5" fell on 4/25 in about 2 hours. The rest had accumulated in the gauge over 7 days. | Not much standing water in canals. Lakes are close to full. |
| 4/30/23 | 120h | 1.25 | On and off rain over 5 days. | Some canals are beginning to hold water as they are intended to do. |
| 5/25/23 | 6h | 2.35 | 2" at night 1/3" in gauge since last empty. | Some canal filling but receded fast. |
| 5/27/23 | 6h | 2 | Big overnight rain | Canals now beginning to hold water although a small amount. |
| 6/3/23 | 48h | 2.5 | 2 days on and off of downpours | The main drain canal has now started to fill. It has not made it to the drain pipe yet. |
| 6/22/23 | 336h | 3.5 | 2 weeks accumulation | Main drain outfall pipe still has 1+ foot of canal filling before it begins to drain |
| 6/30/23 | 168h | 2.2 | 1+ week accumulation | All reserve lakes and canals have water in them but the outfall pipe is apx 1 ft from draining. |
| 7/11/23 | 72h | 2.125 | Most in 1 afternoon | Reserve areas continue to fill. |
| 7/15/23 | 48h | 2.125 | 2 days on and off of downpours | The retention lakes & canals are still 9" from flowing out the outfall pipe. |
| 7/18/23 | 24h | 1.8 | Heavy afternoon rains on 17th. | The retention lakes & canals are now 4" from flowing out the outfall pipe. |
| 8/3/23 | 384h | 3 | Low rain until the last week | Retention lakes & canals are still 3" short of the outfall pipe |
| 8/4/23 | 2h | 1.5 | Overnight rain after midnight | The outfall pipe had water on it's lowest edge but none was flowing out yet. |
| 8/15/23 | 240h | 2.7 | Most rain in last days | |
| 8/16/23 | 2h | 1.6 | Heavy rain in the late afternoon | Outfall pipe had 3" flowing out on 8/16 after the rain. |
| 8/25/23 | 216h | 1.2 | Periodic rains accumulated | Outfall still has 3" flowing out. |
| 8/31/23 | 72h | 1 | Most rain during hurricane bands | Outfall draining lowering reserves correctly |
| 9/25/23 | 168h | 4 | Rain in the last week on and off | Outfall pipe had no water above the flow out lip. |

| READ & EMPTY DATE | APX. RAIN DURATION TIME | INCHES | NOTES | SUGARHILL DRAINAGE |
|-------------------|-------------------------|--------|---|--|
| 9/28/23 | 48h | 1.25 | Heavy rain 1 of the 2 days | |
| 9/30/23 | 24h | 2.75 | Very heavy rain | Outfall pipe started drawing again. |
| 10/1/23 | 24h | 2.45 | Very heavy rain | Outfall has 4" flowing out. |
| 10/1/23 | 5h | 3.4 | Very heavy rain. Over 10" of rain in 4 days! | After this rain some backyards had standing water and the walk to the tennis court was 70% underwater. Outfall pipe was flowing at 50% of it's diameter, working well. |
| 10/2/23 | 14h | 1 | Most rain after midnight | Outfall still flowing out heavily |
| 10/13/23 | 6h | 2.6 | Night rain | |
| 10/18/23 | 48h | 1 | On and off rain over 2 days | Outfall still flowing out heavily |
| 11/17/23 | 72h | 1.75 | On and off rain over 2 days | NOTE: we are 11" over annual average for year after only 11 months. |
| 12/1/23 | 72h | 1.25 | On and off rain over 2 days | Water is now below the outfall pipe. Evaporation and ground saturation now only removal of standing canals and reserve water. |