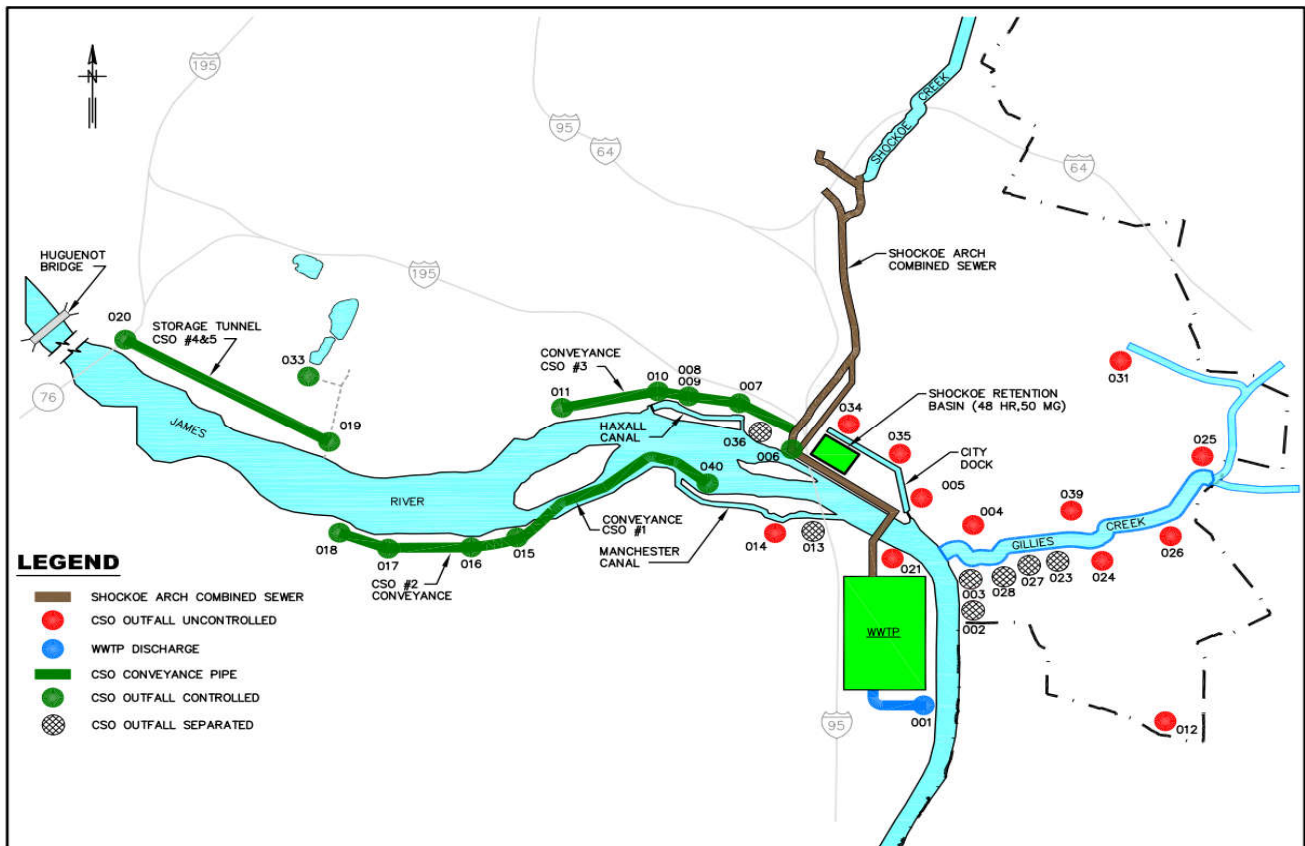


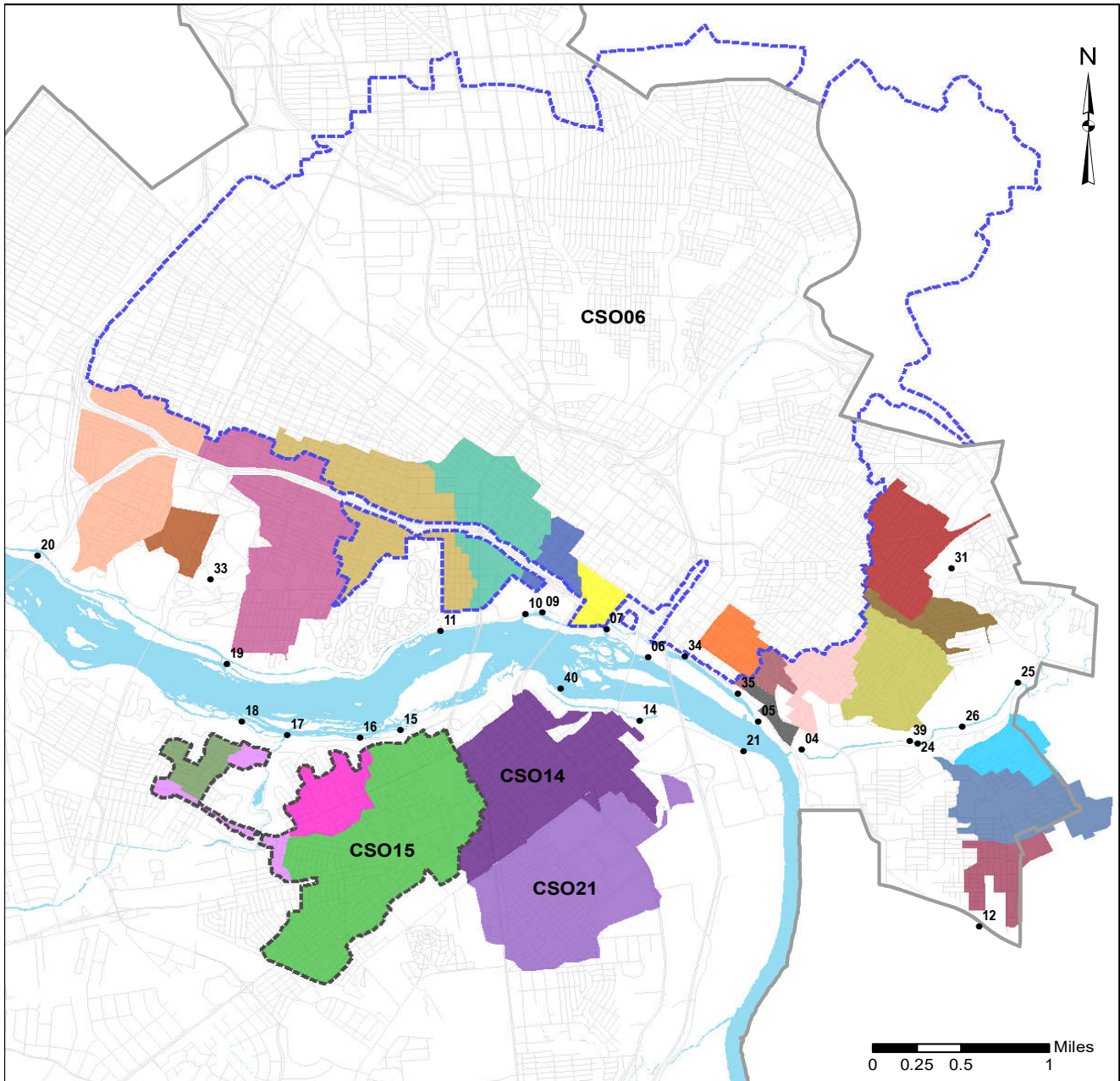
CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

Combined Sewer Overflow Monthly Report

June, 2020



Combined Sewer System Drainage Area Map



Legend

	City Limit		CSO04		CSO09		CSO14		CSO18		CSO24		CSO33		CSO40
	CSO05		CSO10		CSO15		CSO19		CSO25		CSO34		CSO35		
	CSO06		CSO11		CSO16		CSO20		CSO26		CSO31		CSO39		
	CSO07		CSO12		CSO17		CSO21								

**CSO04 - Bloody Run
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	0.1	0.75
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	0.58	2.67
6/12/20		0.01	0.08	0.12	0.08	0.58
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20	1	0.58	2.83	1.08	0.01	1.00
6/17/20	1	0.33	1.58	0.96	0.02	0.25
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	0.05	0.42
6/20/20						
6/21/20						
6/22/20	1	0.25	0.50	1.32	0.01	0.17
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.88	1.00
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.03	0.25
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.06	0.33

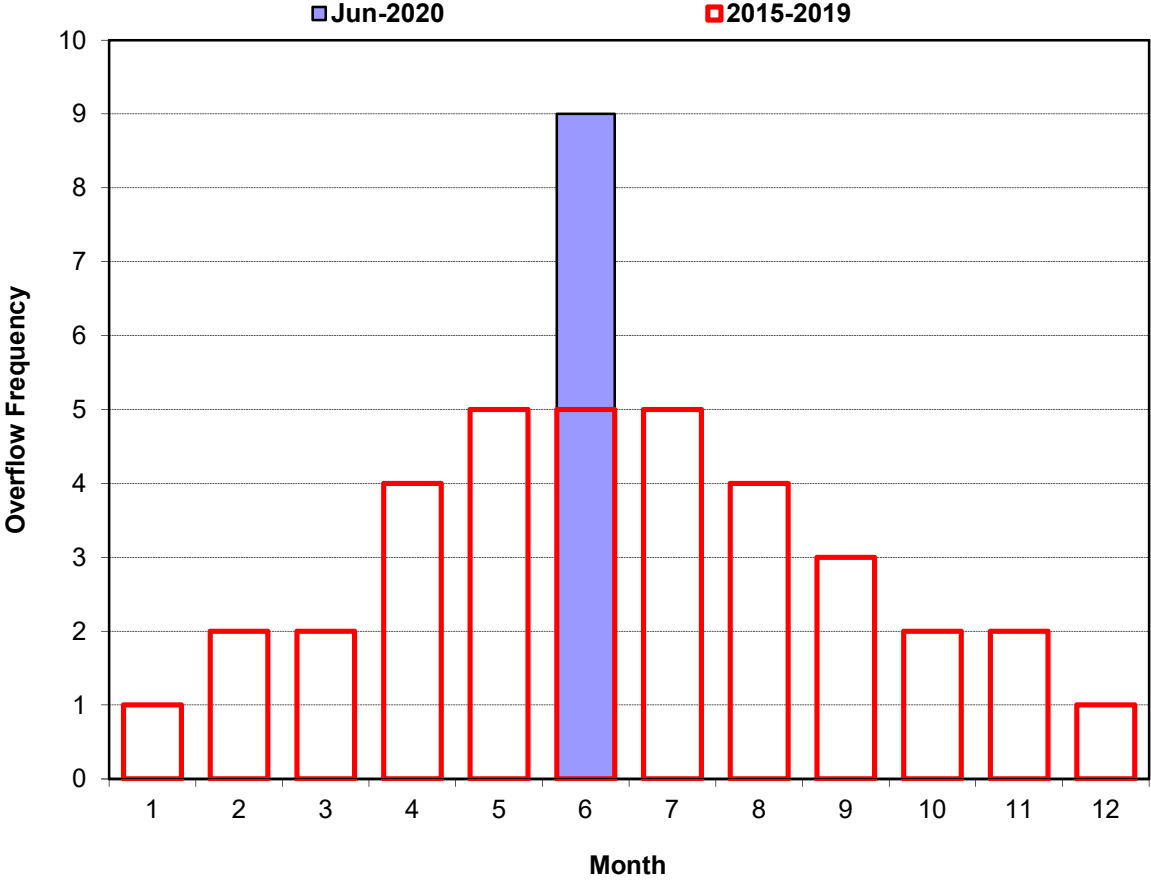
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
9	5.25	10.50	5.76	1.80	7.42

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



**CSO05 - Peach Street
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	0.02	0.08
6/12/20		0.01	0.08	0.12	0.26	2.17
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.19	2.25
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

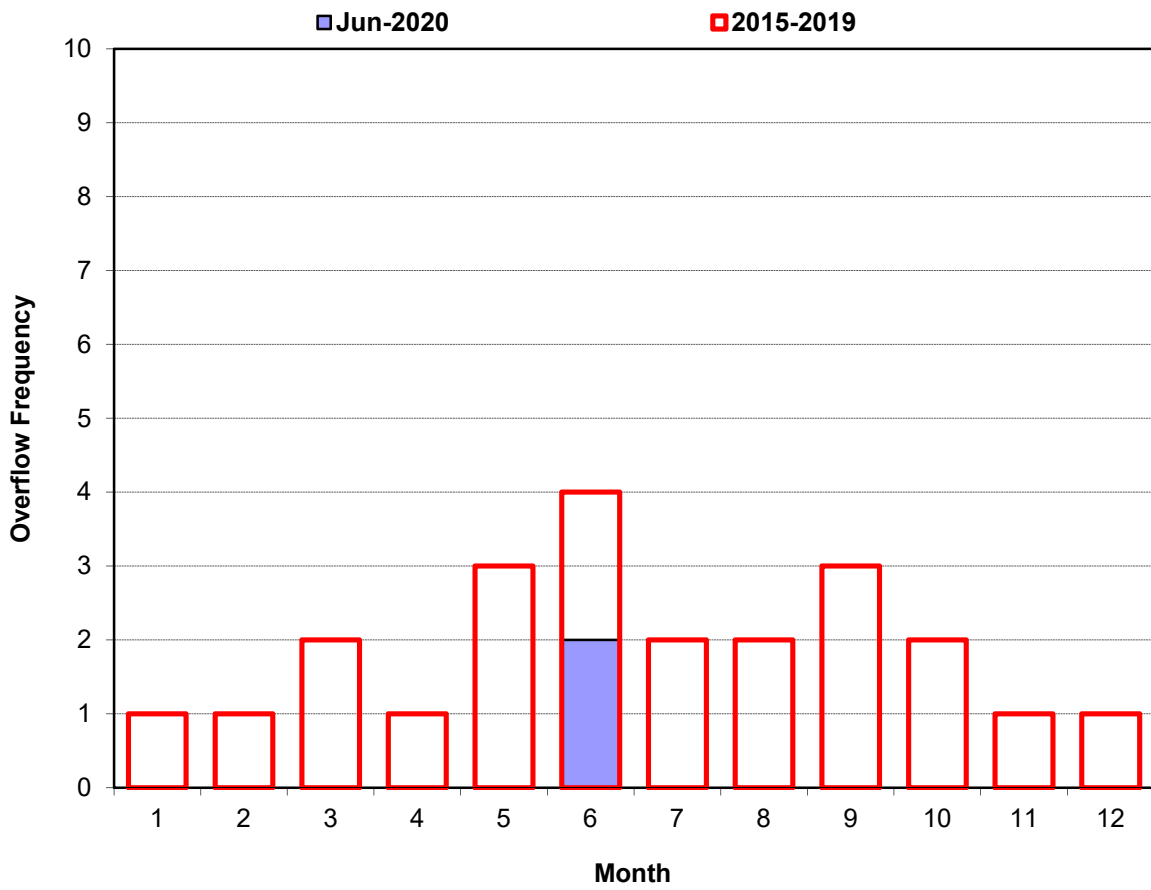
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	5.25	10.50	5.76	0.46	4.50

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



CSO06 - Shockoe
Overflow Model Summary[†]
Current Month: June 2020

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	11	0.17
6/12/20		0.01	0.08	0.12	56.5	16.42
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20	1	0.33	1.58	0.96	18	9.00
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1 ⁽³⁾	1.15	0.50	5.76	49.1	5.58
6/26/20					4.6	5.17
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

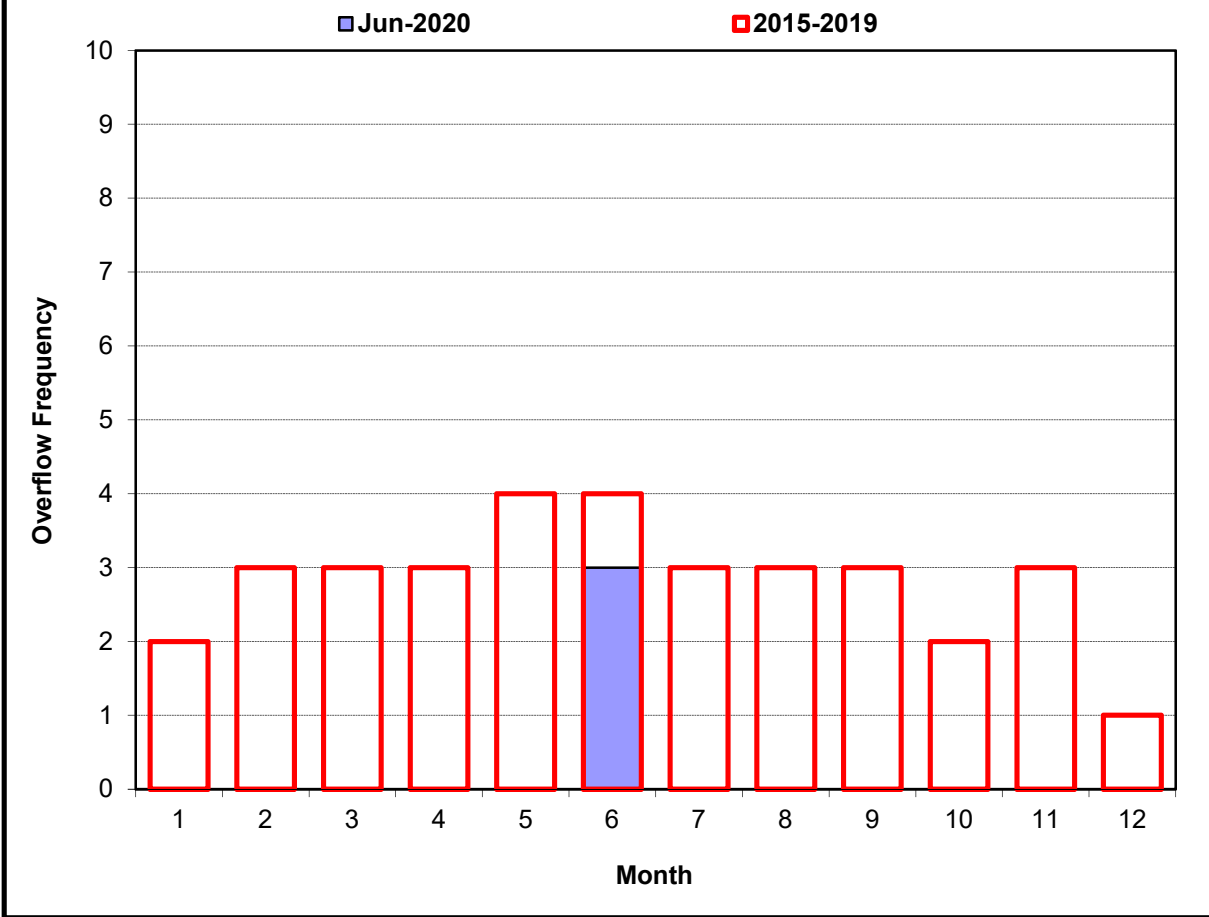
Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
3	5.25	10.50	5.76	139.00	36.33

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

[†] Overflow occurred after the Shockoe Retention Basin was full.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month†



† Overflow occurred after the Shockoe Retention Basin was full.

**CSO07 - Byrd
 Overflow Model Summary
 Current Month: **June 2020****

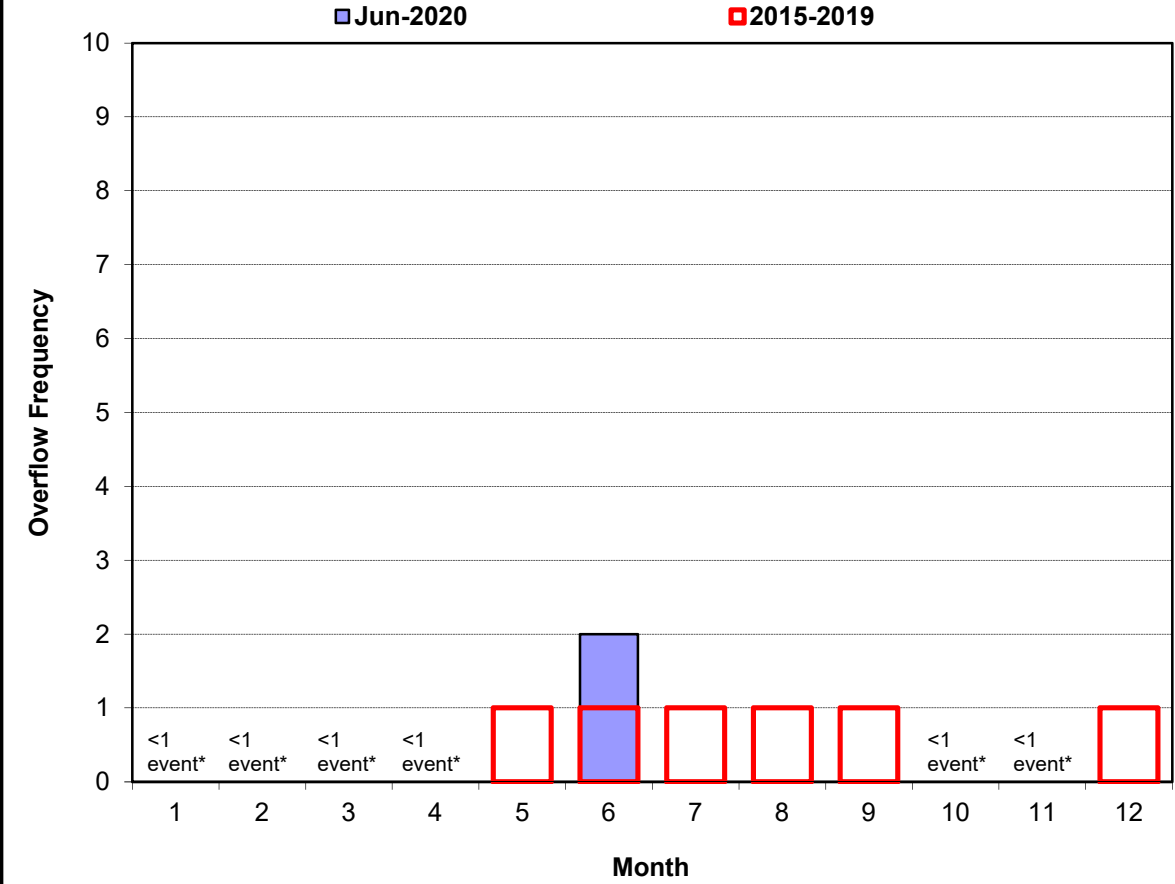
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1	1.29	1.25	3.60	0.006	0.08
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.16	0.42
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	5.25	10.50	5.76	0.17	0.50

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO09 - 7th Street
 Overflow Model Summary
 Current Month: **June 2020****

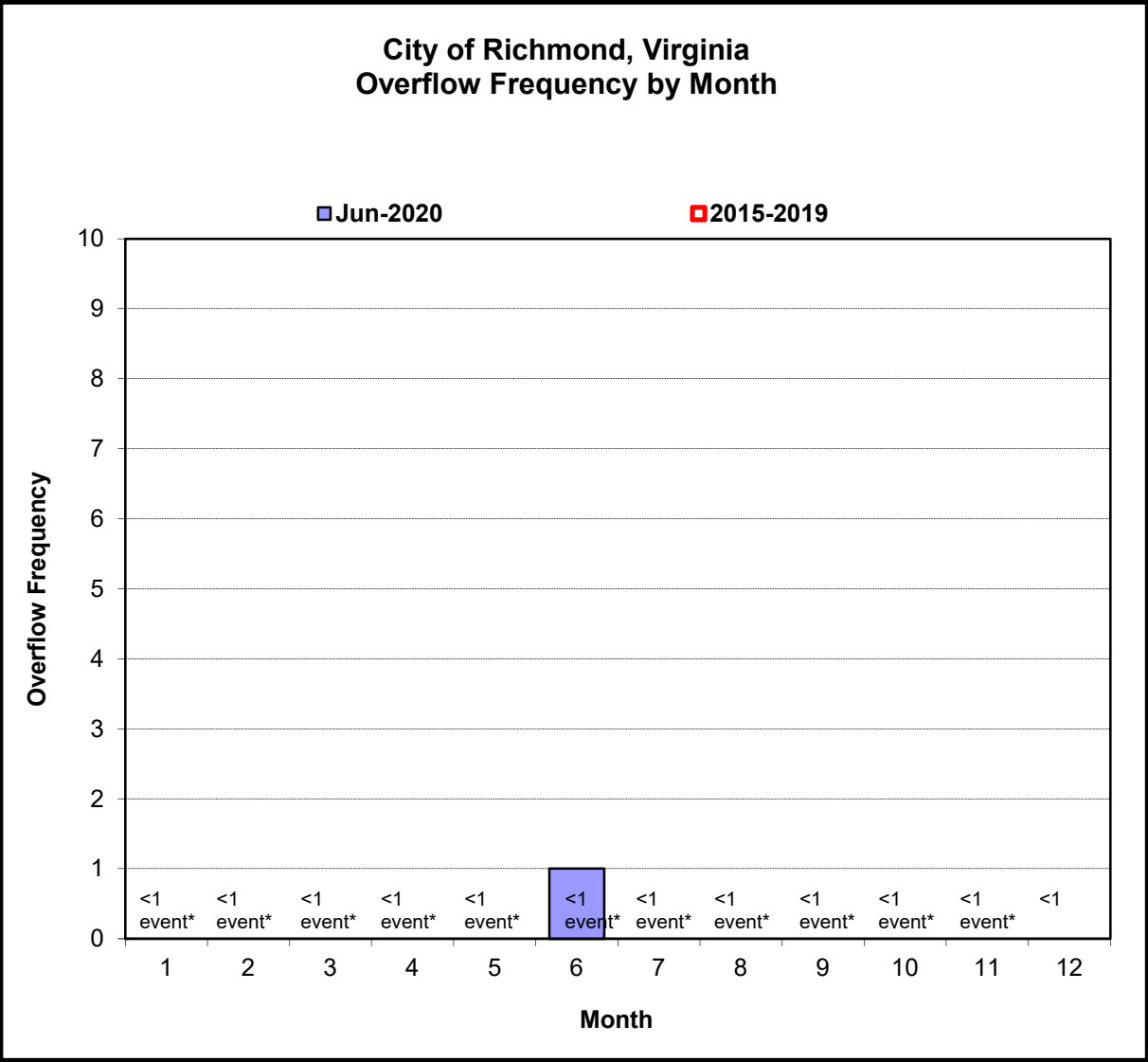
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.22	0.17
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
1	5.25	10.50	5.76	0.22	0.17

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO10 - Gambles Hill
Overflow Model Summary
Current Month: June 2020**

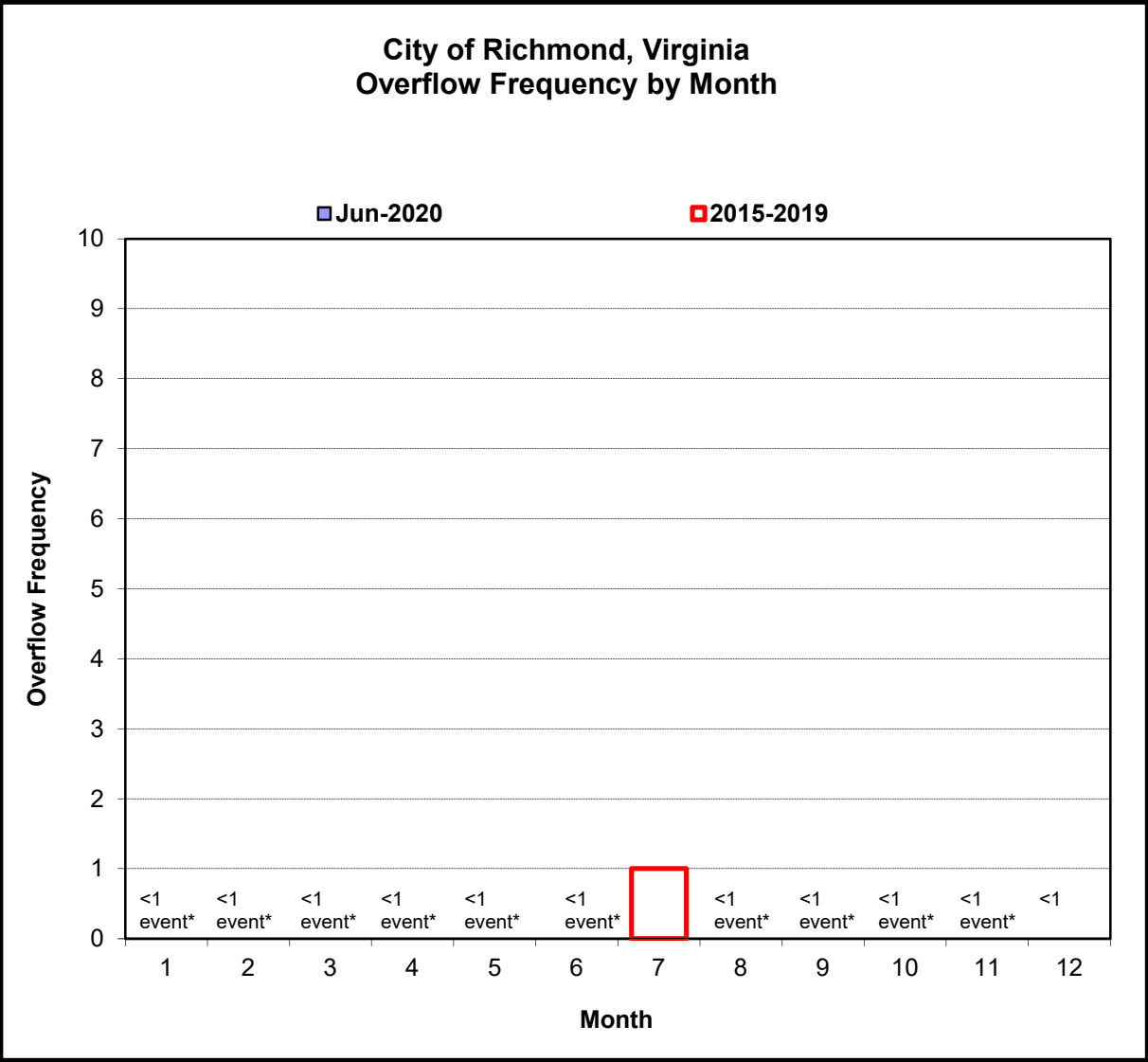
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO11 - Park Hydro
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	3.1	0.92
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	5	2.58
6/12/20		0.01	0.08	0.12	0.39	0.58
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20	1 ⁽³⁾	0.58	2.83	1.08	1.2	1.17
6/17/20		0.33	1.58	0.96	0.65	14.00
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	5.2	1.83
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	4.2	1.00
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.02	0.08
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.68	0.50

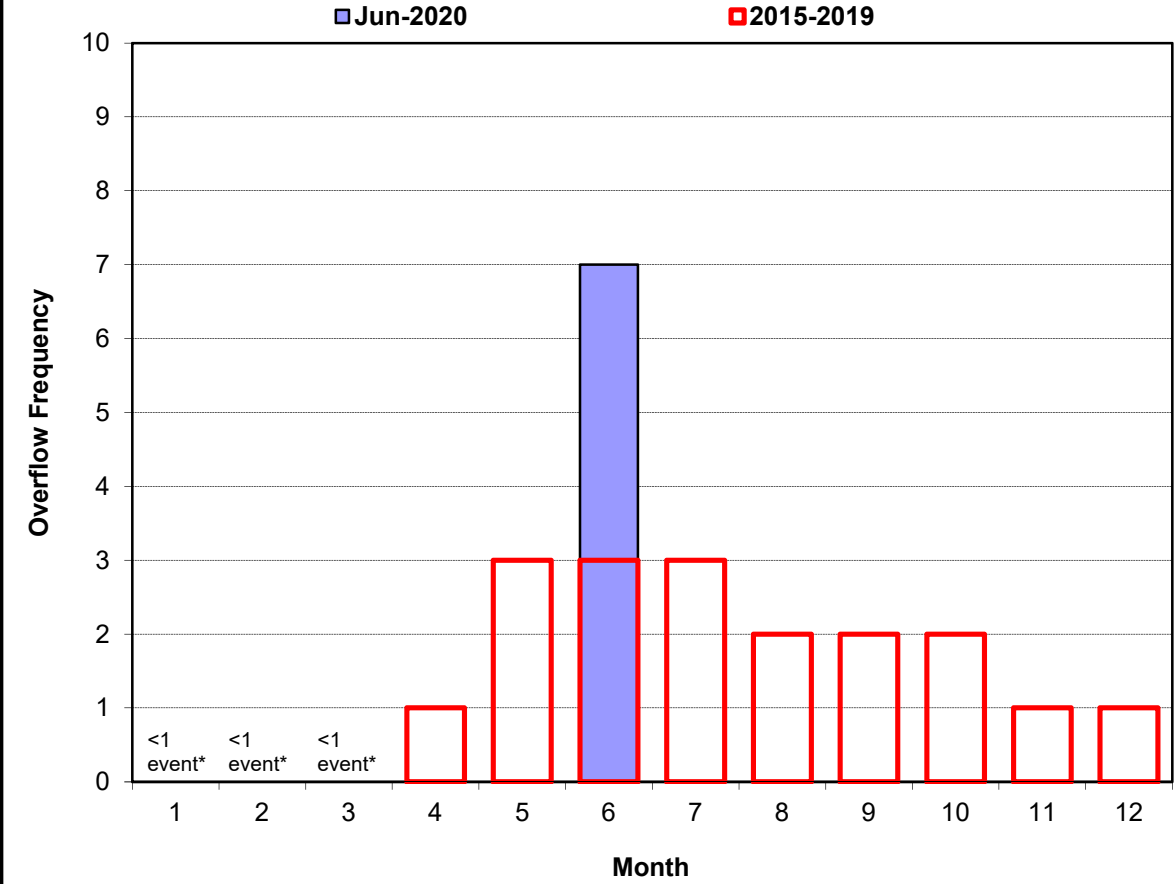
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
7	5.25	10.50	5.76	20.50	22.67

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO12 - Hilton Street
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	0.06	0.75
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	0.43	2.58
6/12/20		0.01	0.08	0.12	0.03	0.42
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20	1 ⁽³⁾	0.58	2.83	1.08	0.03	0.92
6/17/20		0.33	1.58	0.96	0.007	13.83
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	0.04	1.50
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.53	1.25
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.008	0.17
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.03	0.33

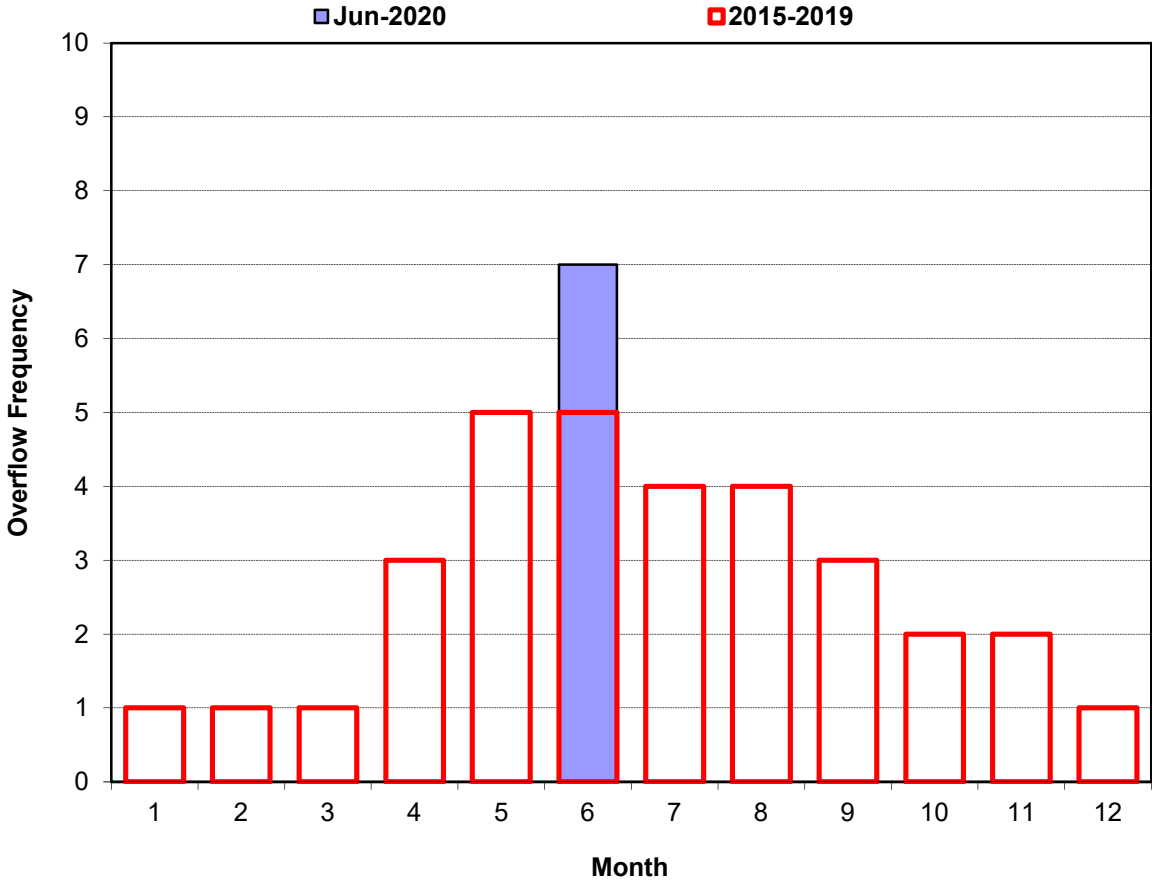
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
7	5.25	10.50	5.76	1.20	21.75

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



**CSO14 - Stockton
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	0.65	0.92
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	3.7	2.58
6/12/20		0.01	0.08	0.12	0.58	0.75
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20	1 ⁽³⁾	0.58	2.83	1.08	0.17	0.92
6/17/20		0.33	1.58	0.96	0.03	14.00
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	0.28	1.50
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	4.7	1.00
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.25	0.42

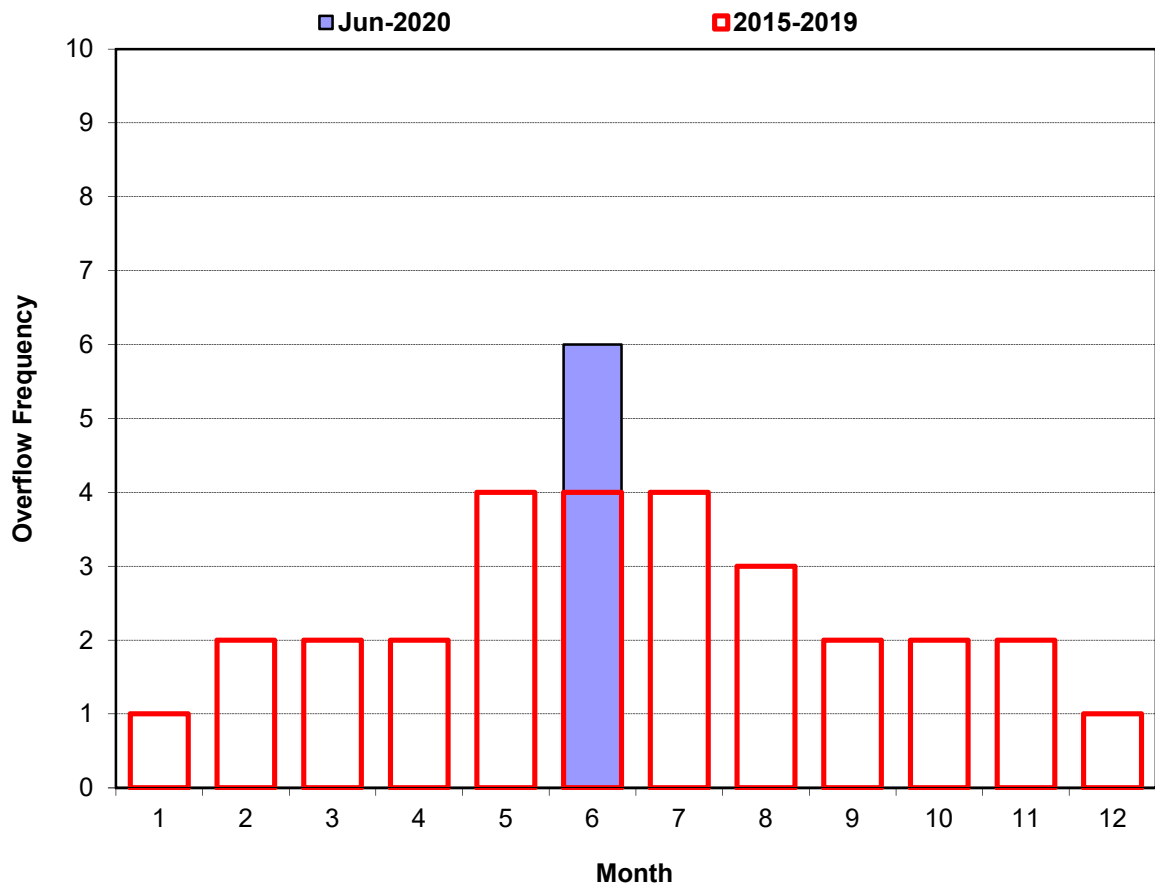
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
6	5.25	10.50	5.76	10.40	22.08

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



**CSO15 - Canoe Run
Overflow Model Summary
Current Month: **June** **2020****

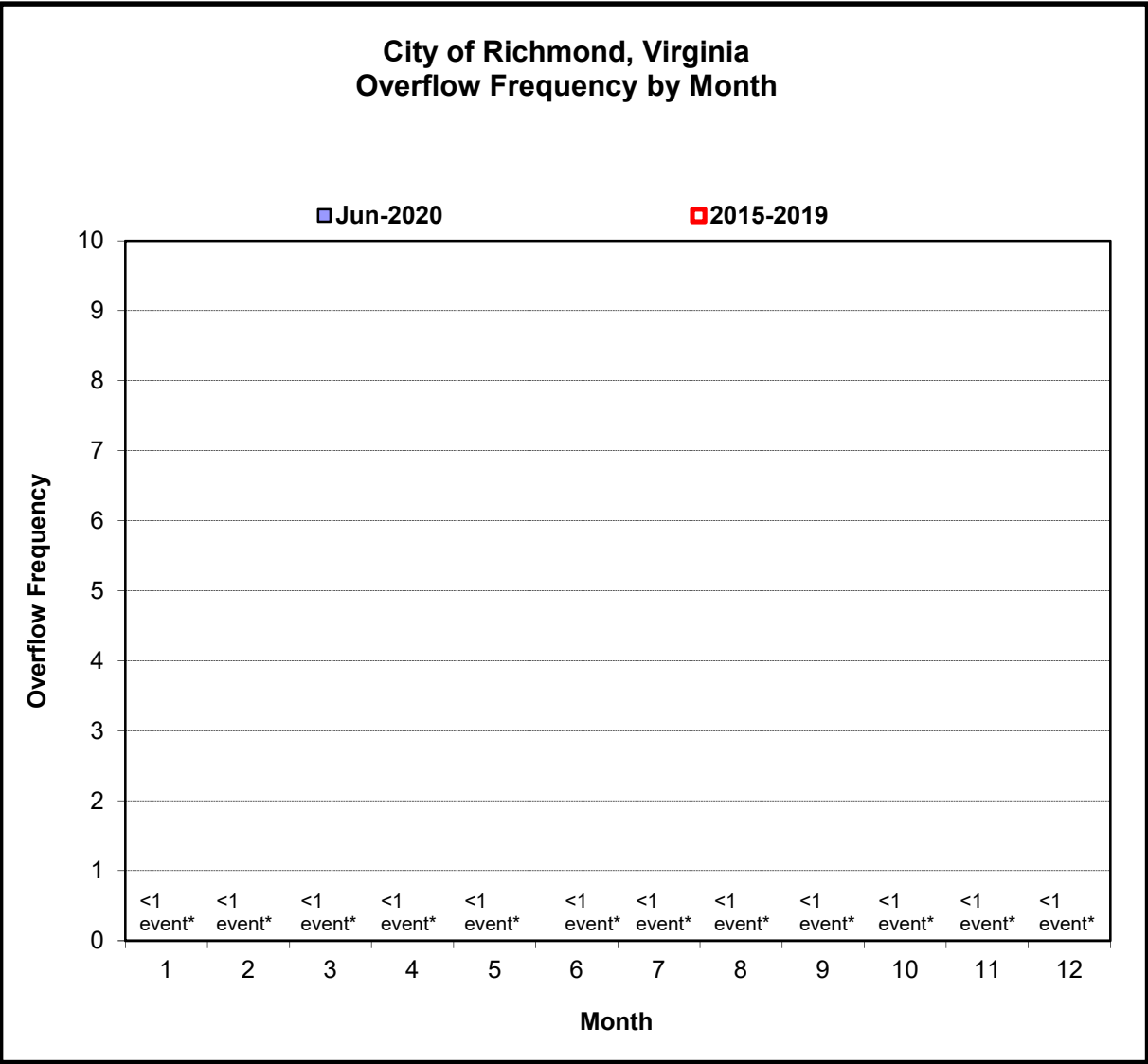
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO16 - Woodland
Overflow Model Summary
Current Month: June 2020**

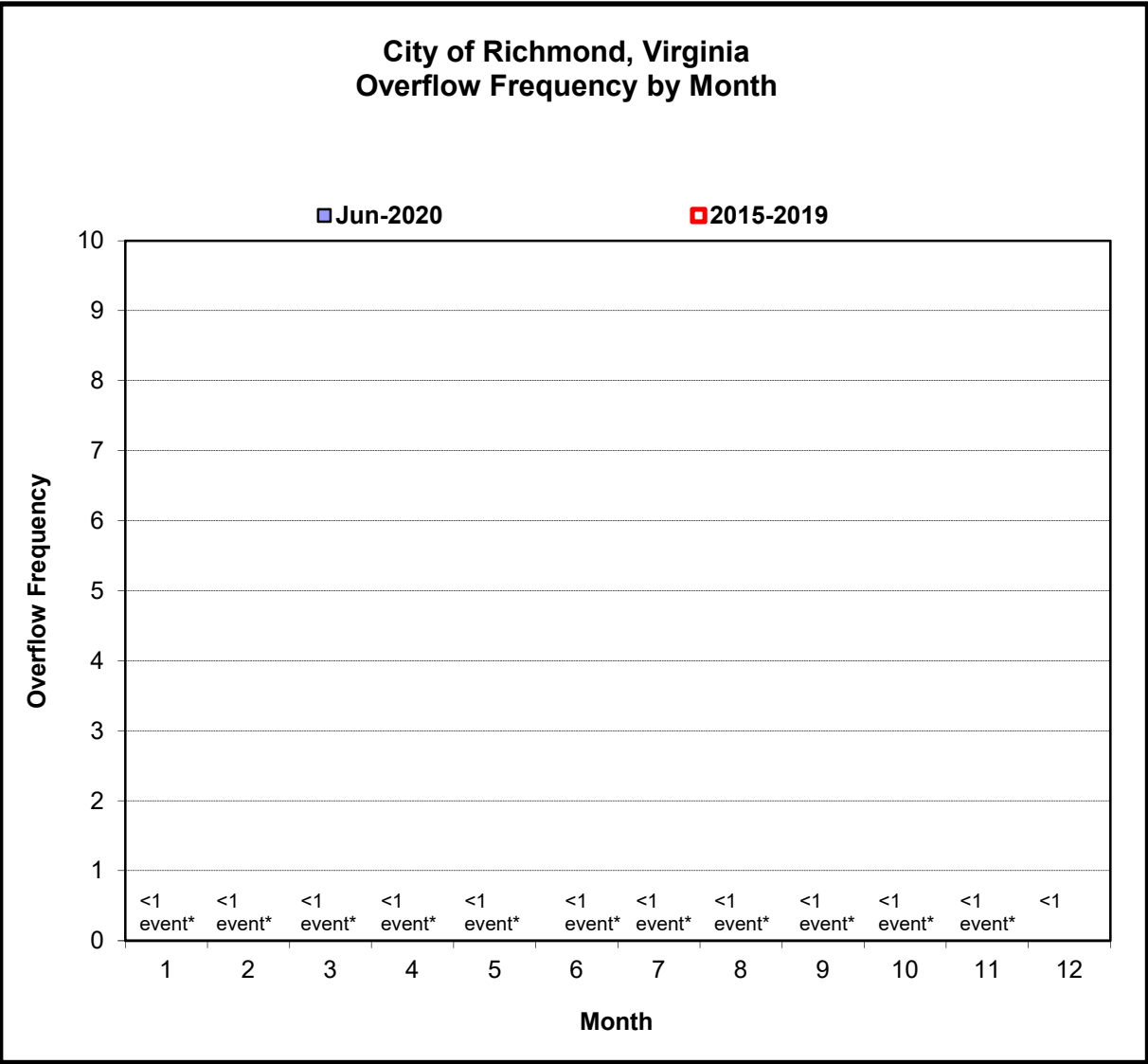
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO17 - Reedy Creek
Overflow Model Summary
Current Month: **June** **2020****

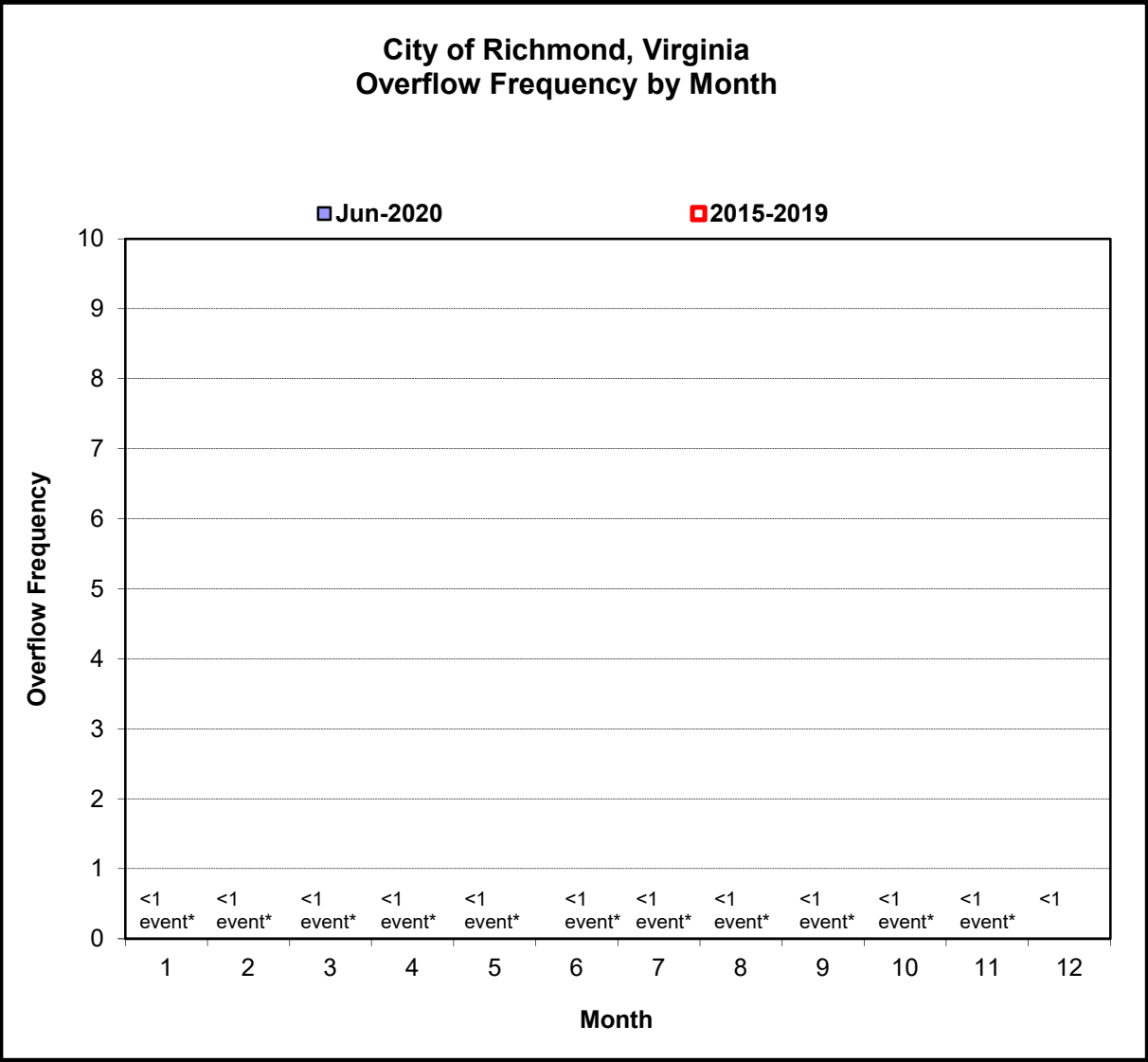
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO18 - 42nd Street
 Overflow Model Summary
 Current Month: **June** **2020****

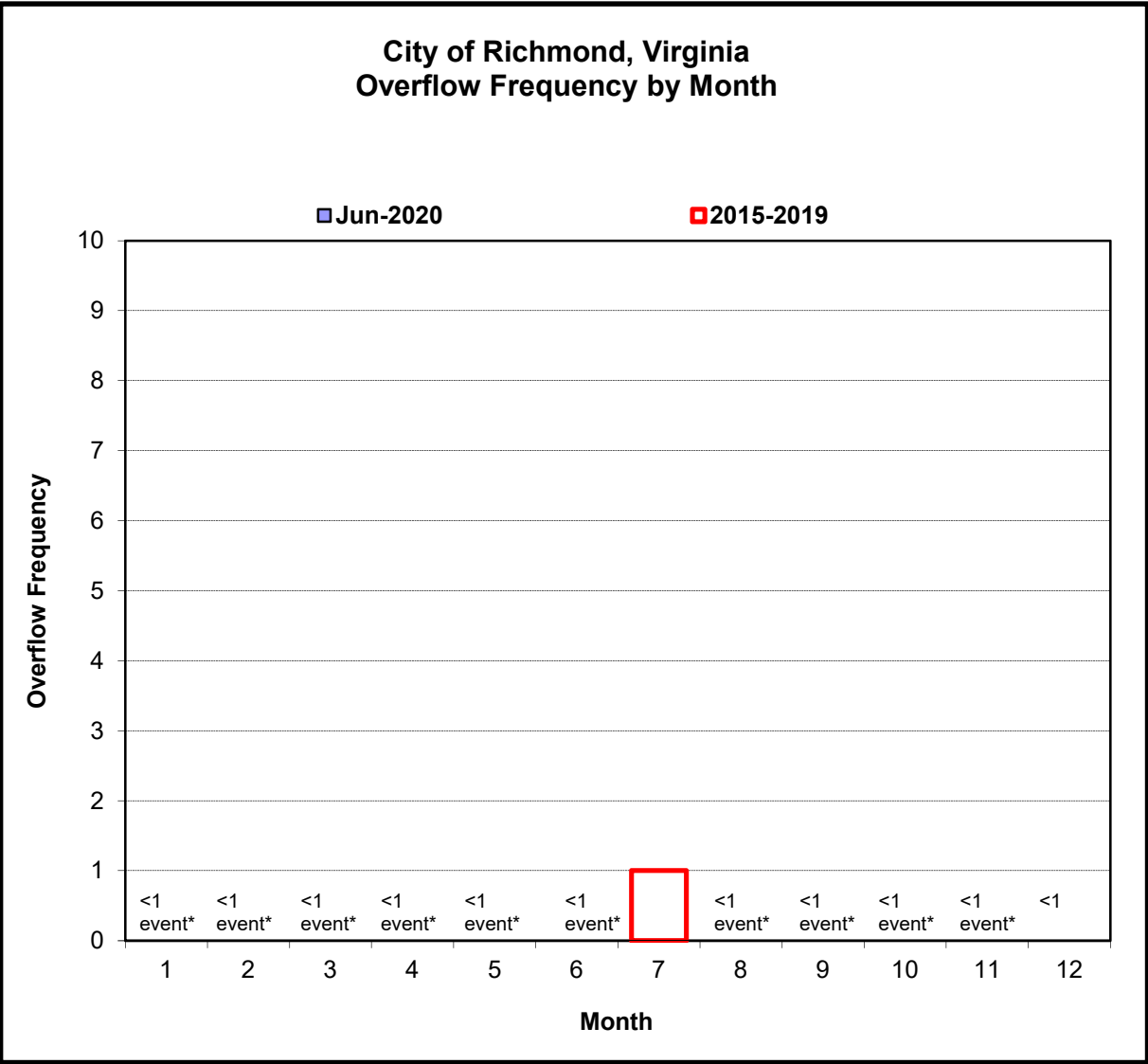
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO19 - Hampton
 Overflow Model Summary
 Current Month: **June 2020****

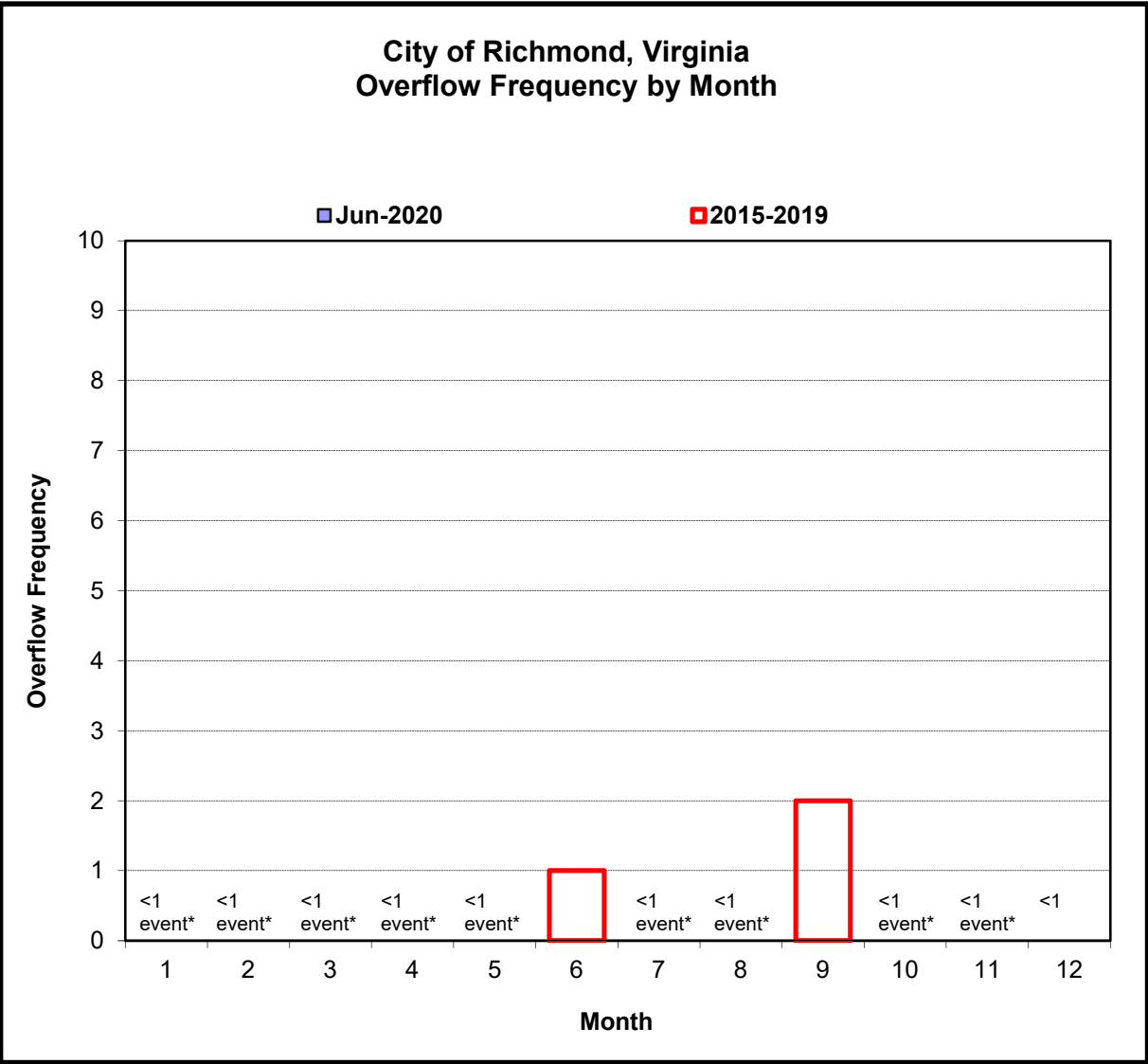
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.480	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO20 - Mc Cloy
 Overflow Model Summary
 Current Month: **June** **2020****

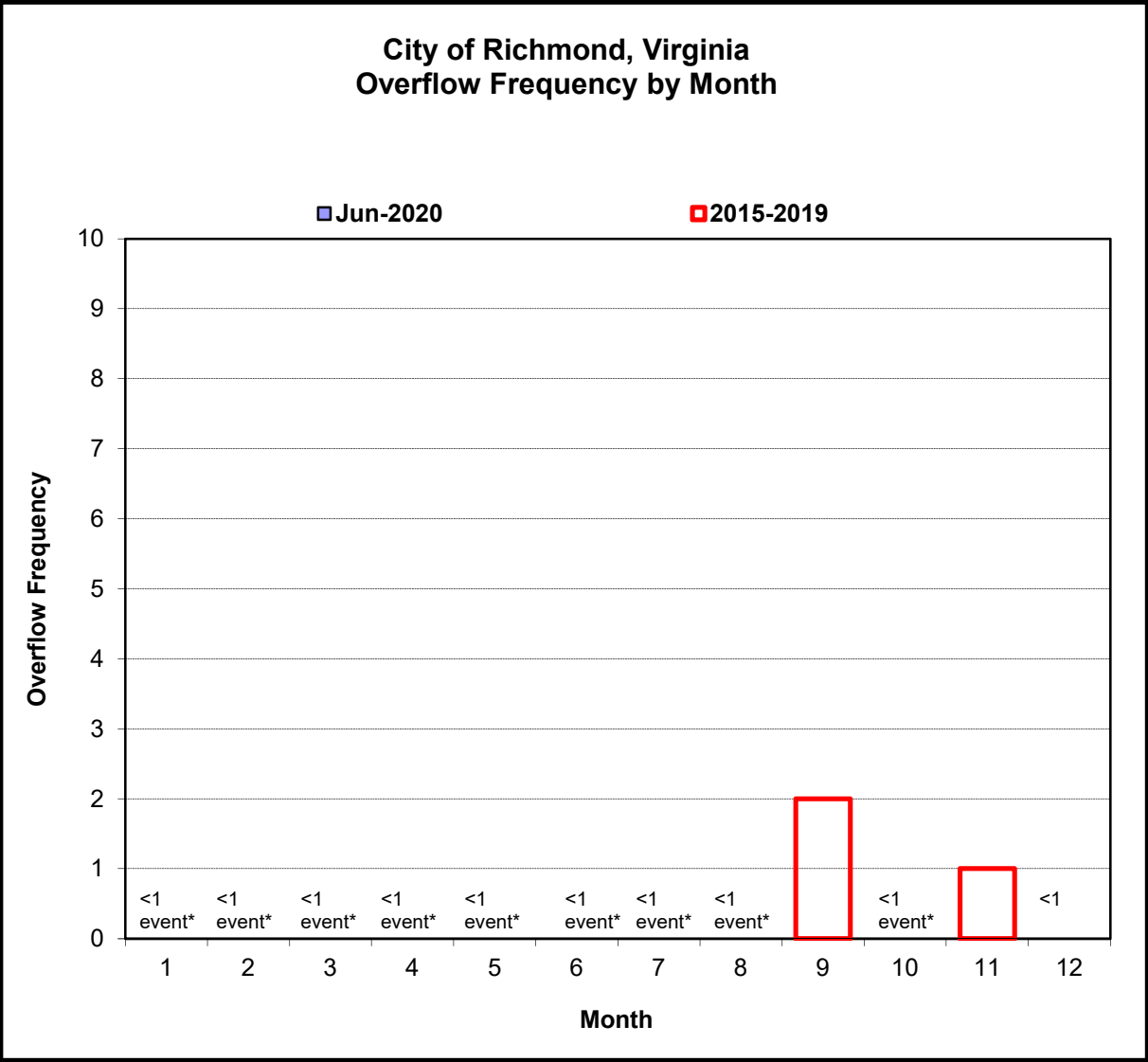
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO21 - Gordon Ave
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	0.99	0.75
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	4.40	2.50
6/12/20		0.01	0.08	0.12	3.70	3.42
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	6.20	2.67
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.22	0.33
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.46	0.42

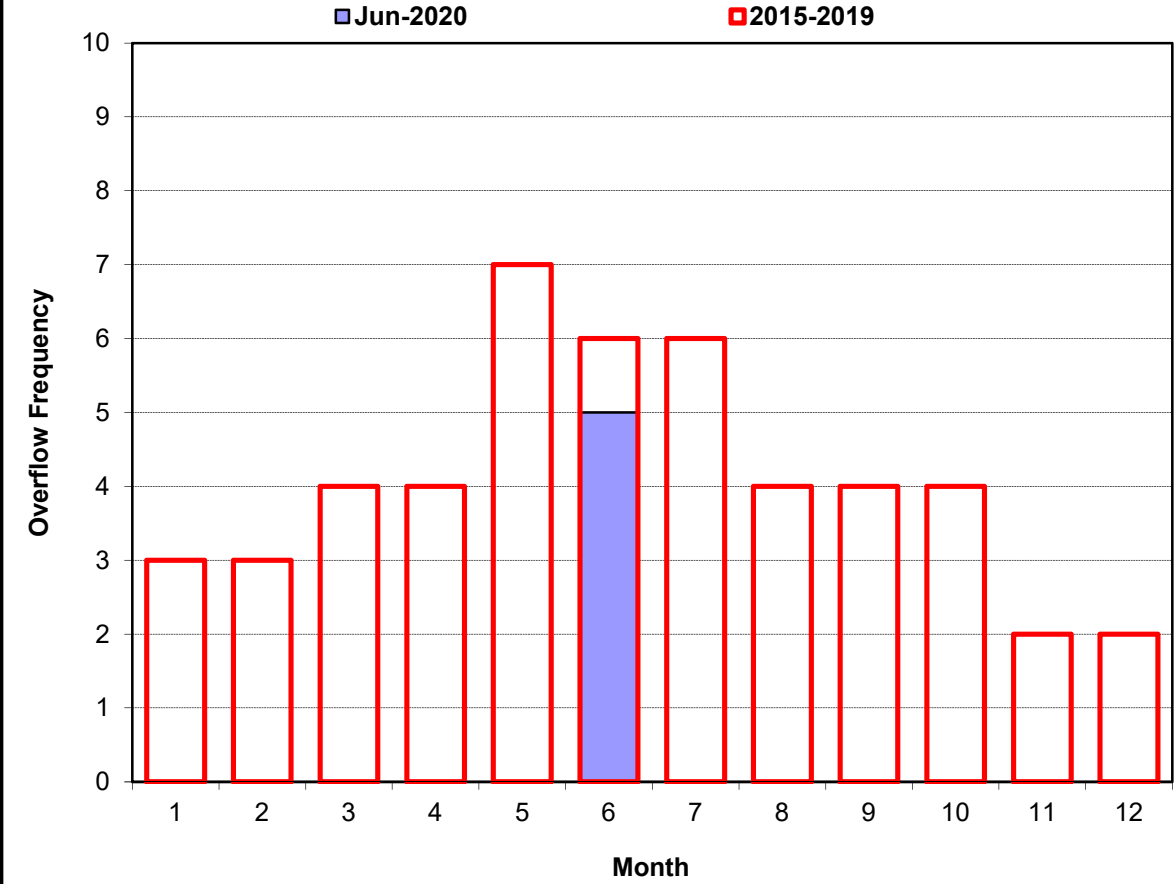
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
5	5.25	10.50	5.76	16.10	10.08

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



**CSO24 - Gillies & Varina
 Overflow Model Summary
 Current Month: **June 2020****

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	0.2	2.50
6/12/20		0.01	0.08	0.12	0.03	0.42
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.44	1.17
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

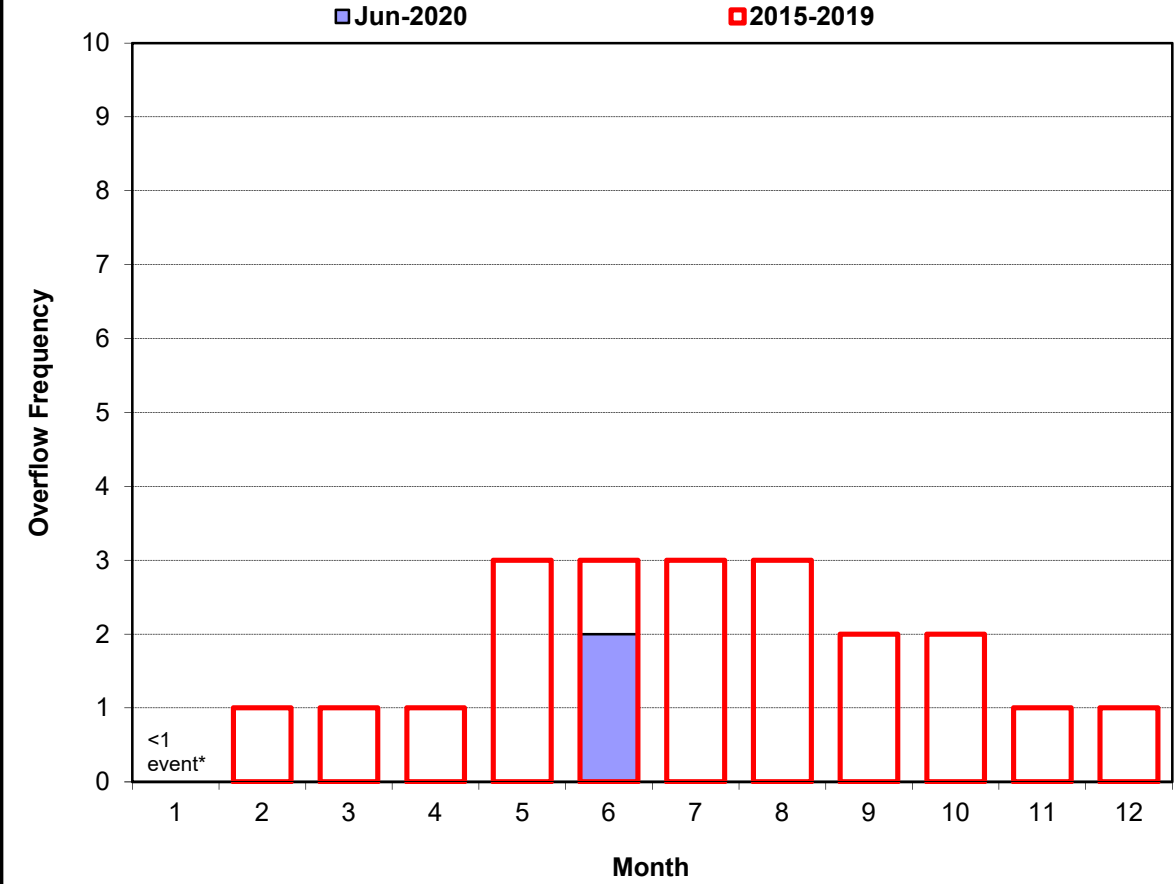
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	5.25	10.50	5.76	0.67	4.08

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO25 - Briel & Gillies Cr
Overflow Model Summary
Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	0.1	2.33
6/12/20		0.01	0.08	0.12	0.01	0.25
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.22	0.58
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

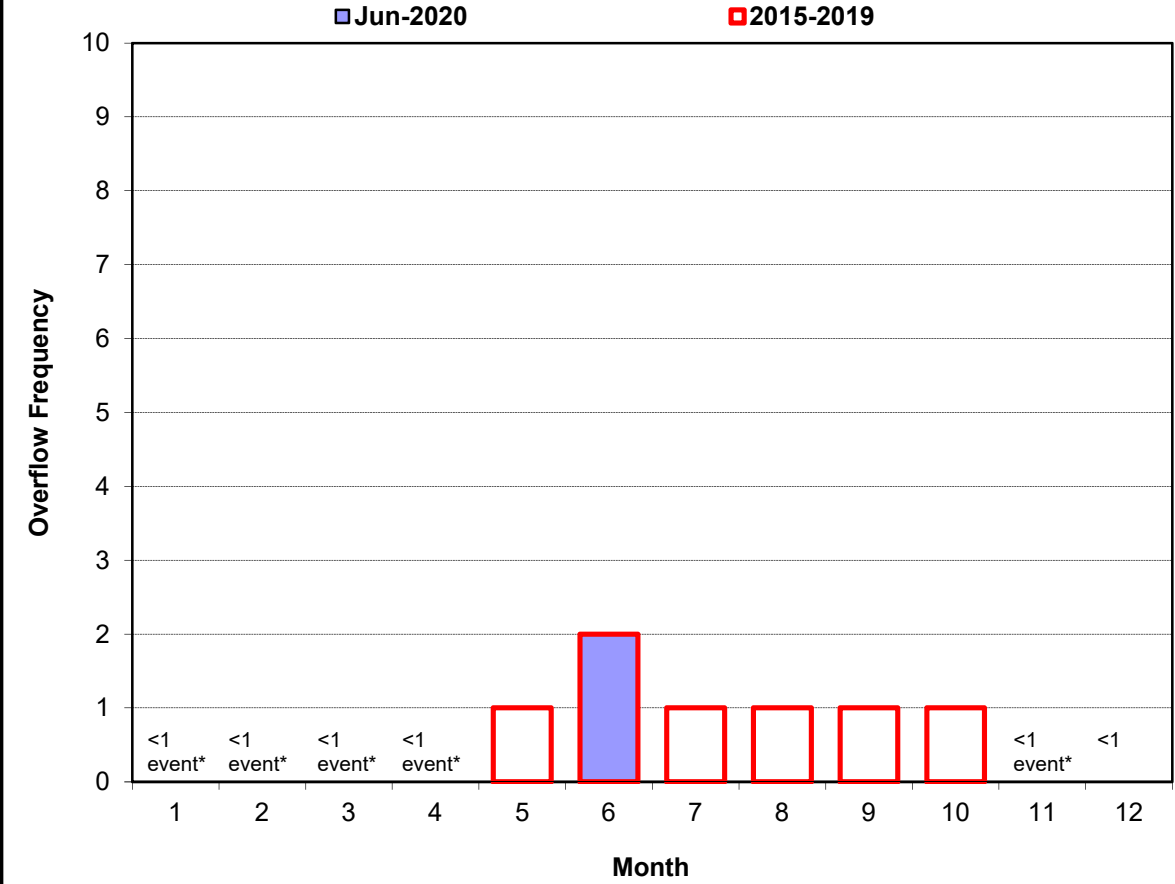
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	5.25	10.50	5.76	0.33	3.17

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO26 - Govt Road & NSRR
 Overflow Model Summary
 Current Month: June 2020**

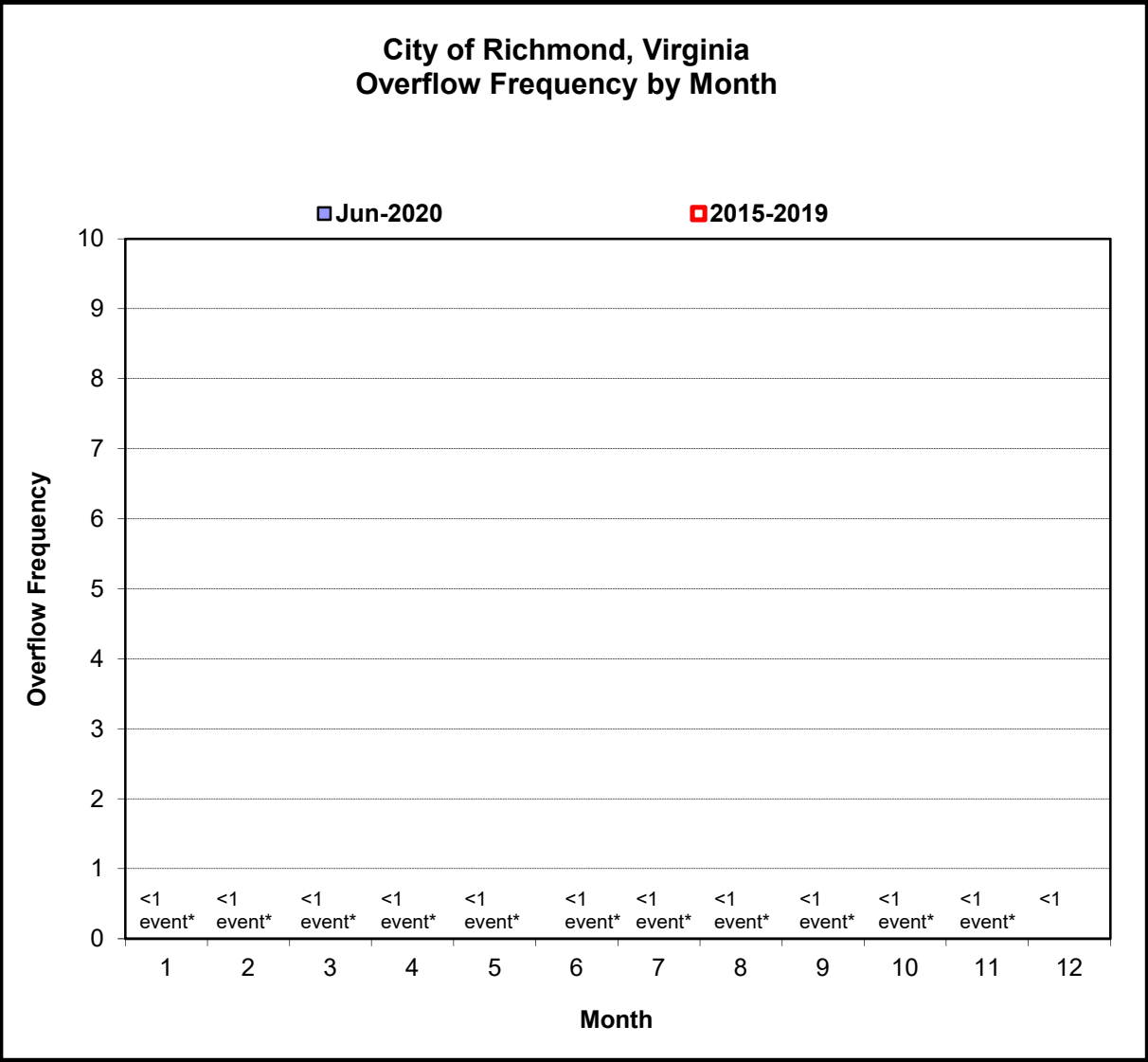
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20		1.15	0.50	5.76		
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
0	5.25	10.50	5.76	0.00	0.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO31 - Oakwood Cem
Overflow Model Summary
Current Month: June 2020**

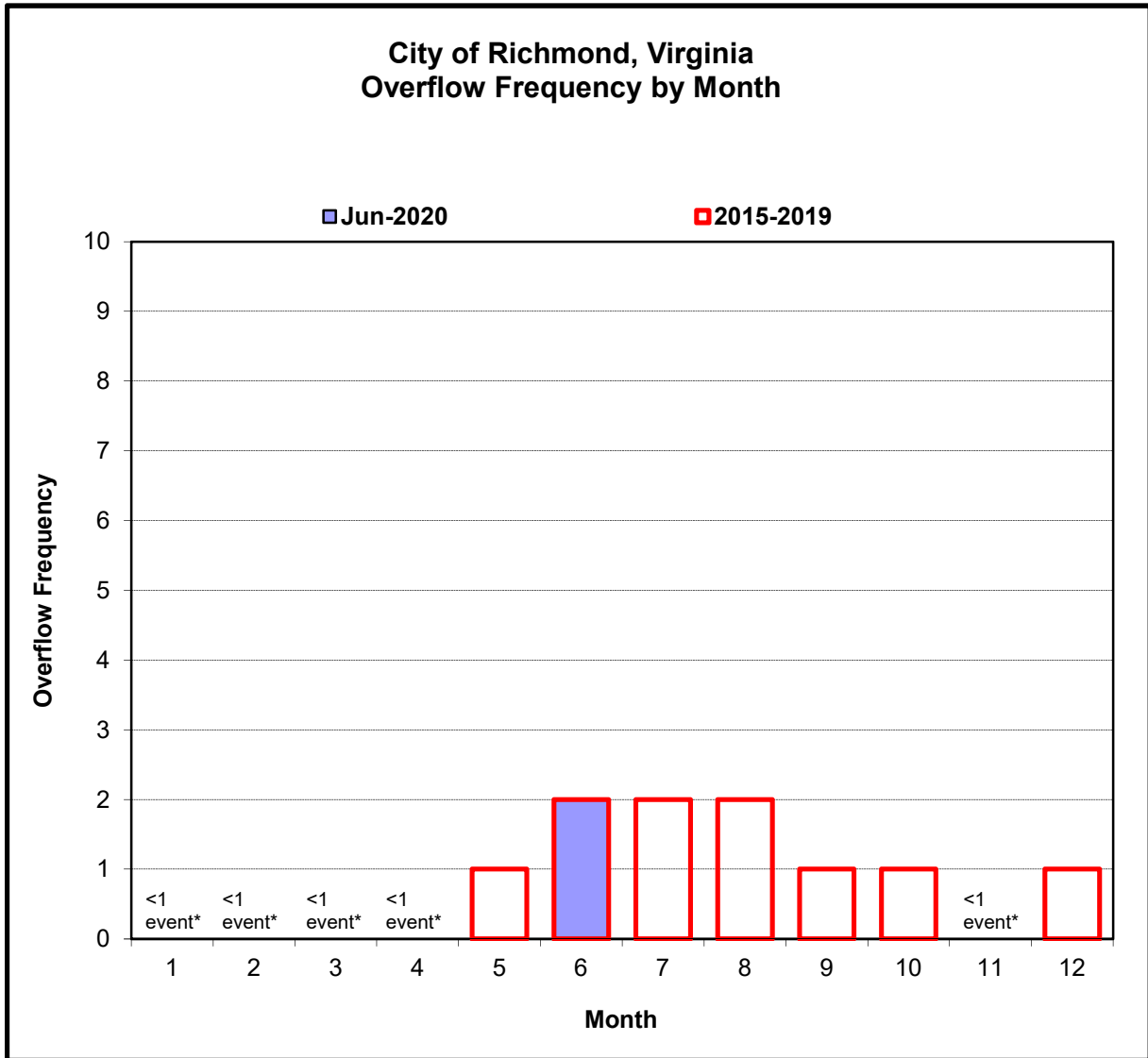
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1	1.29	1.25	3.60	0.3	2.33
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.73	0.50
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	5.25	10.50	5.76	1	2.83

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO33 - Shields Lake
Overflow Model Summary
Current Month: **June** **2020****

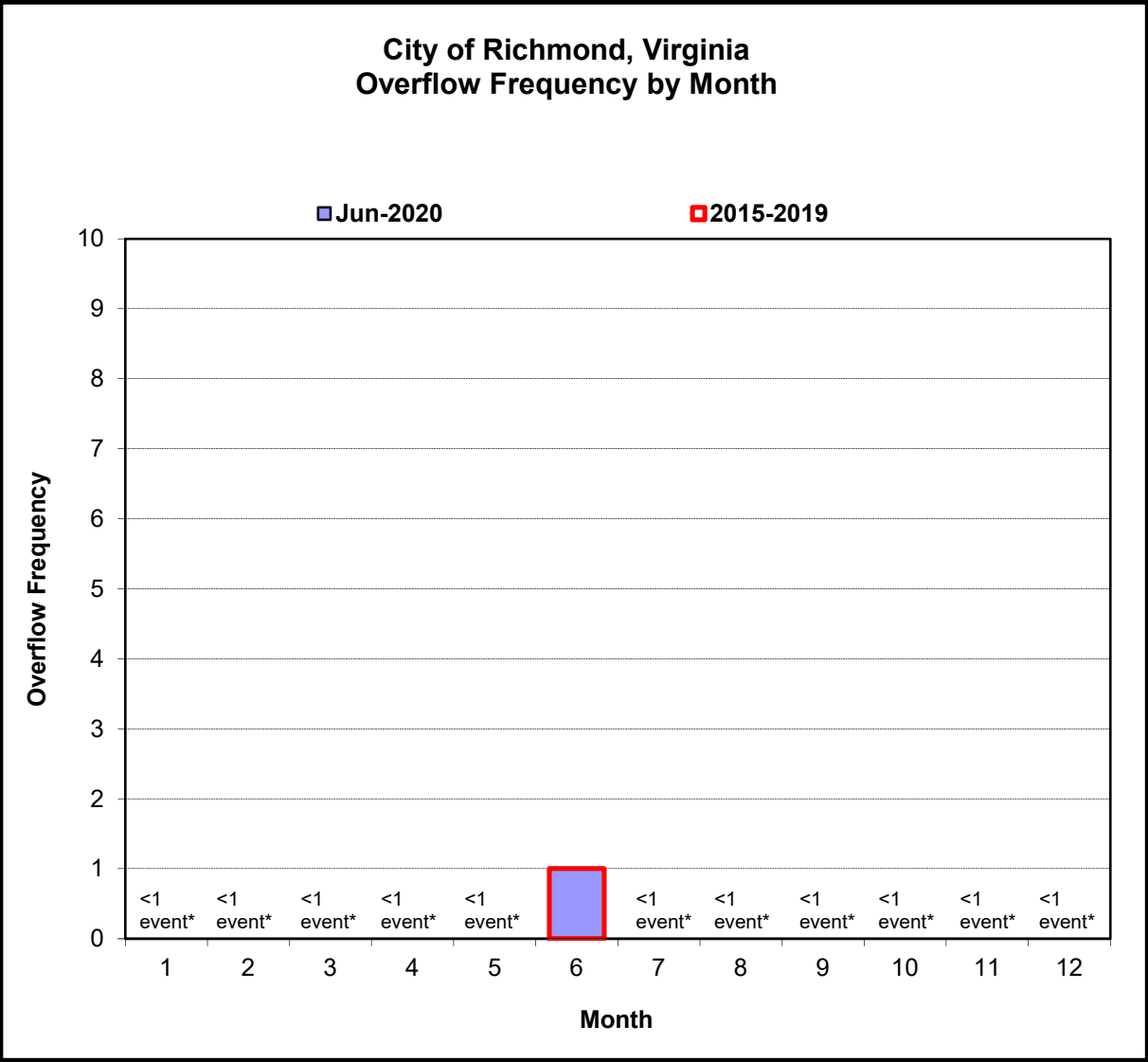
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20		1.29	1.25	3.60		
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.03	0.08
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
1	5.25	10.50	5.76	0.03	0.08

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO34 - 19th & Dock
 Overflow Model Summary
 Current Month: **June 2020****

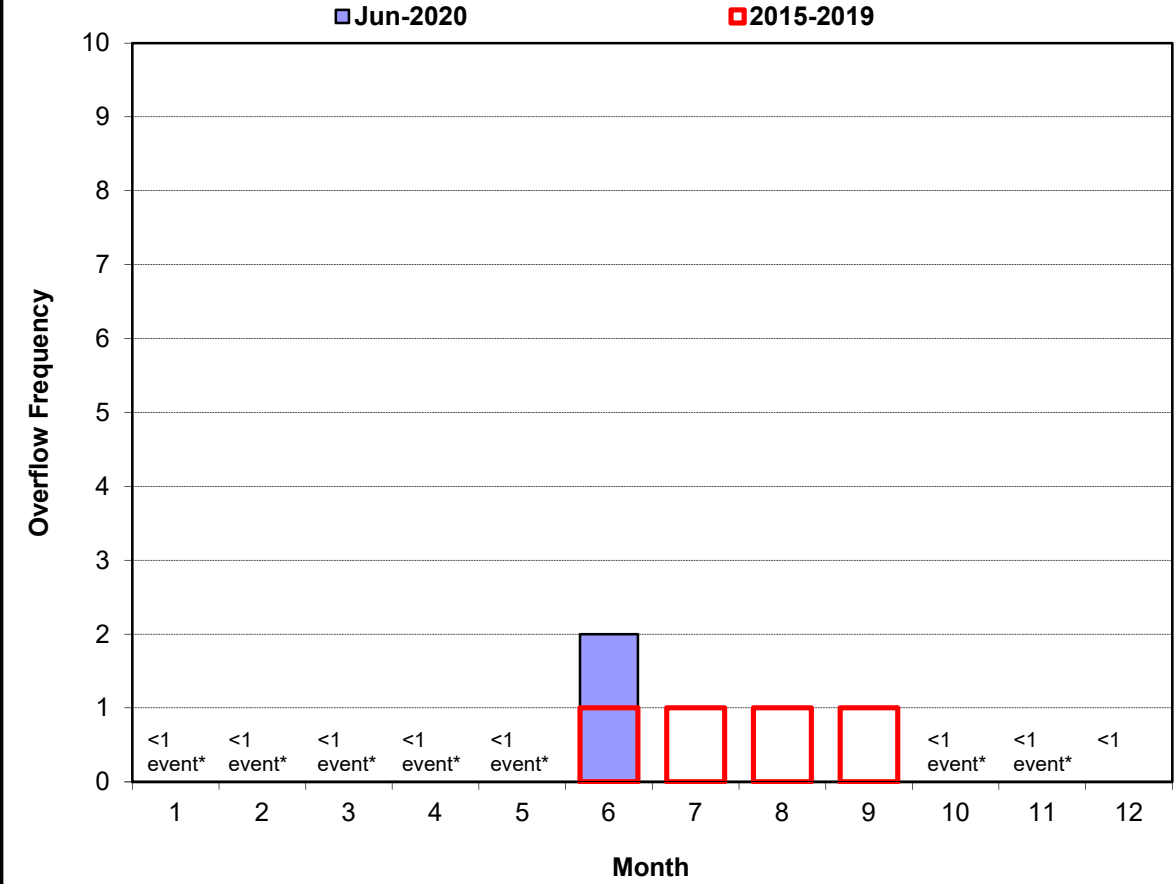
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1	1.29	1.25	3.60	0.006	2.17
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20		0.48	1.08	1.68		
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.17	0.33
6/26/20						
6/27/20						
6/28/20		0.19	0.08	2.28		
6/29/20						
6/30/20		0.26	0.17	2.52		

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
2	5.25	10.50	5.76	0.18	2.50

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO35 - 29th & Dock
Overflow Model Summary
Current Month: June 2020**

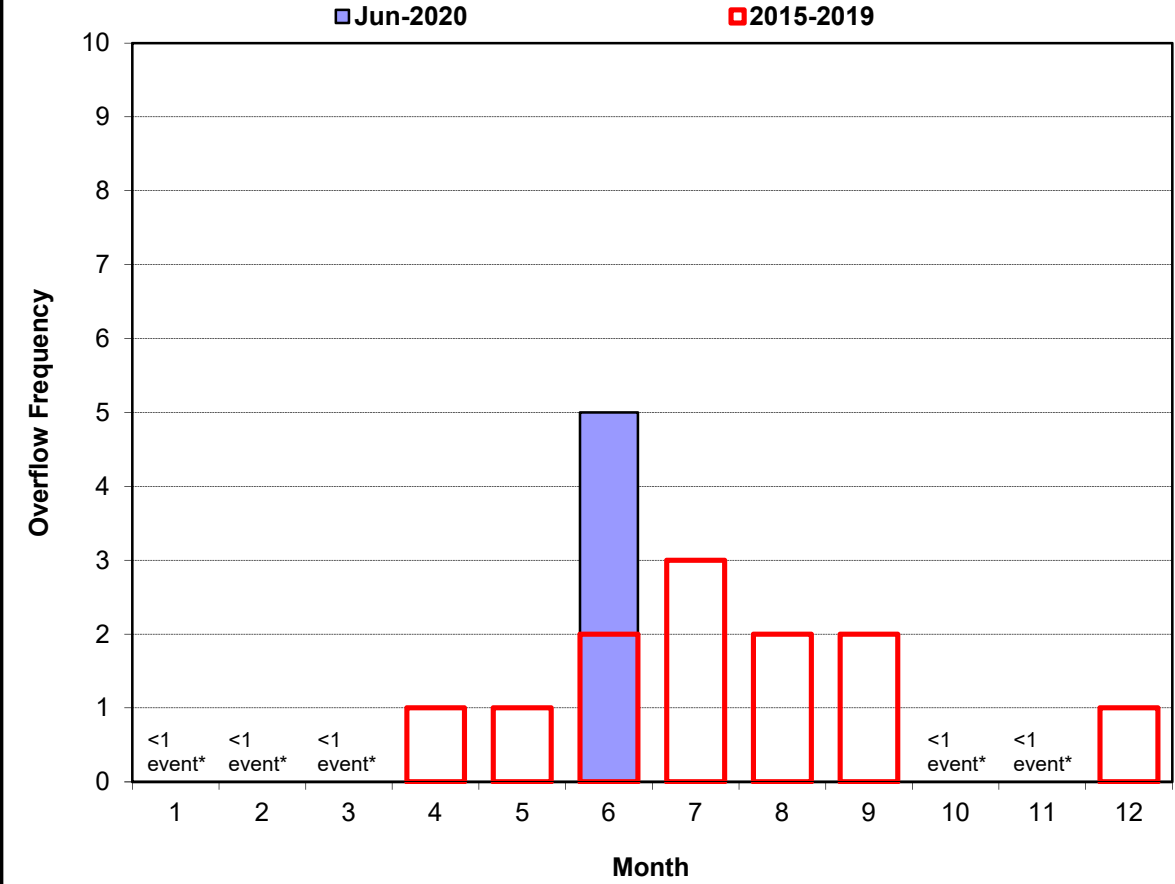
Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20		0.53	1.25	1.68		
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1	1.29	1.25	3.60	0.05	2.25
6/12/20		0.01	0.08	0.12		
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20		0.33	1.58	0.96		
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	0.001	0.08
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.17	0.42
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.001	0.08
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.001	0.08

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
5	5.25	10.50	5.76	0.22	2.92

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

City of Richmond, Virginia Overflow Frequency by Month



* Average Overflow Frequency is less than once in the month.

**CSO39 - Govt Road & Gillies
 Overflow Model Summary
 Current Month: June 2020**

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	0.09	0.67
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	0.55	2.58
6/12/20		0.01	0.08	0.12	0.06	0.58
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20	1 ⁽³⁾	0.58	2.83	1.08	0.03	0.58
6/17/20		0.33	1.58	0.96	0.005	13.83
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	0.04	1.33
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	0.77	1.25
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.008	0.17
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.04	0.25

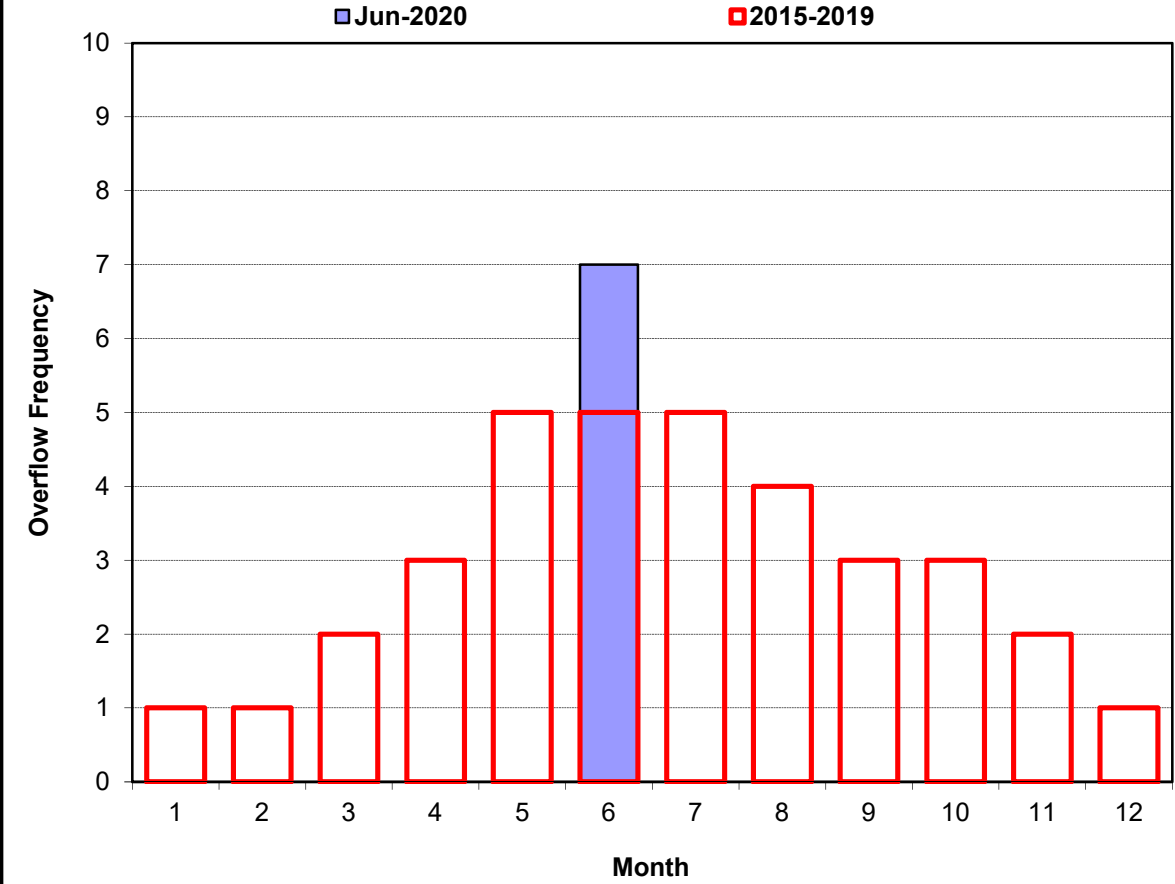
MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
7	5.25	10.50	5.76	1.6	21.25

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month



CSO40 - Diff User
Overflow Model Summary
Current Month: June 2020

Date	Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hr)
6/1/20						
6/2/20						
6/3/20						
6/4/20						
6/5/20						
6/6/20	1	0.53	1.25	1.68	0.44	1.83
6/7/20		0.02	0.08	0.24		
6/8/20						
6/9/20						
6/10/20						
6/11/20	1 ⁽³⁾	1.29	1.25	3.60	2.7	2.58
6/12/20		0.01	0.08	0.12	0.89	2.67
6/13/20						
6/14/20						
6/15/20		0.15	1.00	0.24		
6/16/20		0.58	2.83	1.08		
6/17/20	1	0.33	1.58	0.96	0.03	0.25
6/18/20		0.01	0.08	0.12		
6/19/20	1	0.48	1.08	1.68	0.2	1.00
6/20/20						
6/21/20						
6/22/20		0.25	0.50	1.32		
6/23/20						
6/24/20						
6/25/20	1	1.15	0.50	5.76	5	3.17
6/26/20						
6/27/20						
6/28/20	1	0.19	0.08	2.28	0.05	0.33
6/29/20						
6/30/20	1	0.26	0.17	2.52	0.25	1.17

MONTH SUMMARY

Num of Overflow	Rainfall ⁽¹⁾ Total (in)	Hours of ⁽¹⁾ Rainfall	Max. Rainfall ⁽¹⁾ Intensity (in/hr)	Volume of Overflow (MG)	Duration of Overflow (hrs)
7	5.25	10.50	5.76	9.60	13.00

⁽¹⁾ Based on the NWS Station at Richmond Airport (KRIC ASOS) rainfall data.

⁽³⁾ Overflow event continued on the following day.

City of Richmond, Virginia Overflow Frequency by Month

