



Licence WU67 Monthly Environmental Flow Report March 2022

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Contents

- 1. **Introduction 3**
- 2. **Compliance Analysis and Operational Interactions..... 4**
- 3. **Environmental Release Data 5**

1. Introduction

Icon Water holds a Licence to Take Water under the Water Resources Act 2007 – Licence Number WU67.

Under Licence Number WU67 clause C1, it is a requirement to provide the following information to the Environment Protection Authority (EPA) by the 15th day of each month.

2. Compliance Analysis and Operational Interactions

Table 1 - Notes relating to the reporting month Environmental Flow releases

Reservoir	Notes
Corin	Corin Dam spilled throughout March. Releases were at licence requirements throughout March.
Bendora	Bendora Dam spilled for the majority of March. Releases from the dam were increased above the licence requirement on 23 March to reduce the reservoir level and prevent the dam from spilling to facilitate a Dam Safety inspection of the Bendora stilling basin. Additional releases continued to the end of March and into April.
Cotter	Cotter Dam spilled throughout March. Releases were at licence requirements throughout March. The bi-monthly riffle release was achieved via spillway flow
Googong	Googong Dam spilled throughout March. The bi-monthly riffle release was achieved via spillway flow Googong mini-hydro operated for the majority of March. Releases were above licence requirements while the mini-hydro was operating.

Table 2 – Notes relating to abstraction from Murrumbidgee River

Mt MacDonald river gauge	Not applicable, natural river flows.
Murrumbidgee abstraction	There was no Murrumbidgee River abstraction for consumption in March.
Murrumbidgee To Cotter Eflow	M2C did not operate in March.
Murrumbidgee to Googong	M2G did not operate in March.
Angle Crossing river gauge	Not applicable, natural river flows.

3. Environmental Release Data

The environmental flow release requirements for the current month (a combination of requirements) are detailed in Table 3.

Table 3 – Current month Environmental Flow releases (Total for month in ML)

	Corin	Bendora	Cotter	Googong
Previous month's shortfall (-) or Excess (+) *	45	72		
Monthly 75% of the 80 th %tile ML #	450	720		
Additional release required?	No	No	No	No
Current month's release target	810	1026	450	300

Note: * Excess carried forward is capped at 10% of the current month's base flow.

Shortfall carried forward is 100% of the amount of water under released.

Under stage 1 or greater water restrictions, targets flow change to a predetermined base flow.

Daily totals in Table 4 to Table 7 are reported as the 24-hour average from midnight to midnight. Operational changes to environmental flow releases occur during business hours, and therefore the value reported may be slightly different to the target flow on the day the flow is changed. This is particularly evident for large changes in flow e.g. the riffle and pool flushes as the flow is averaged for the day.

The actual daily flows, in megalitres per day (ML/d), from each reservoir are detailed in Table 4 to Table 7 together with the water produced at the water treatment plants (WTP) in Table 10.

Table 8 provides more detail with respect to environmental flows provided below Cotter Dam. The e-flows are made up of two components: water released from the Cotter Dam and water being pumped from Murrumbidgee River to below Cotter Dam. This is to satisfy the requirements set out by ACT EPA and Federal Department of the Environment for the operation of the Enlarged Cotter Dam.

Table 9 provides flow details for the operations of the Murrumbidgee to Googong pipeline. It details daily flows through the high lift pumps station as well as daily flows in the Murrumbidgee River at Angle crossing. This is to demonstrate compliance with the requirements set out by ACT EPA, Federal Department of the Environment and NSW Department of Planning.

Table 10 also details the quantity of treated water that has been transferred to Googong reservoir from Stromlo WTP.

Table 4 - Monthly Environmental Flow release data for Corin dam

SUM	410730 Gingera	410730 Gingera	Environmental flow release below Corin Date	Daily base flow	Additional release (pool / riffle)	Planned +/- 50% release regime	Calculated Natural Flow. (Unverified)	Calculated Natural Flow. (Verified)	Adjusted daily base flow. EOM = Revised monthly target	410752 Corin D/S	410752 Corin D/S	EOM Excess (+) / Shortfall (-) to carry forward	EOM Correction to 410730, Verified Vs unverified	EOM Correction to 410752, Verified Vs unverified	Comments
	(unverified)	(verified)								(Unverified)	(Verified)				
Previous months adjustment															
									-34.1						
	212.29	196.3	Tue 1-Mar-22	11.00		16.5	303.2	280.4	11.0	287.89	292.2				
	223.04	231.2	Wed 2-Mar-22	11.00		16.5	318.6	330.2	11.0	340.69	346.3				
	188.39	195.4	Thu 3-Mar-22	11.00		5.5	269.1	279.1	11.0	317.77	321.3				
	167.52	171	Fri 4-Mar-22	11.00		5.5	239.3	244.2	11.0	270.67	274.6				
	269.6	221.5	Sat 5-Mar-22	11.00		5.5	385.1	316.4	11.0	305.7	310.5				
	251.5	286.3	Sun 6-Mar-22	11.00		5.5	359.2	408.9	11.0	433.5	438.4				
	216.4	220	Mon 7-Mar-22	11.00		5.5	309.1	314.2	11.0	369.5	353.9				
	216.4	262.9	Tue 8-Mar-22	11.00		5.5	309.1	375.5	11.0	428.5	369.7				
	300.14	322.2	Wed 9-Mar-22	11.00		5.5	428.7	460.2	11.0	355.83	427.2				
	296.72	248.7	Thu 10-Mar-22	11.00		16.5	423.8	355.2	11.0	324.97	355.8				
	241.19	219.4	Fri 11-Mar-22	11.00		16.5	344.5	313.4	11.0	304.1	324.8				
	215.00	200.1	Sat 12-Mar-22	11.00		16.5	307.1	285.8	11.0	286.2	304.1				
	196.40	183.3	Sun 13-Mar-22	11.00		16.5	280.5	261.8	11.0	262.9	286.2				
	180.15	169.7	Mon 14-Mar-22	11.00		16.5	257.3	242.4	11.0		261.9				
	160.96	161.7	Tue 15-Mar-22	11.00		16.5	229.9	231.0	11.0	250.8	248.9				
	158.23	158	Wed 16-Mar-22	11.00		16.5	226.0	225.7	11.0	244.2	242.3				
	155.19	157	Thu 17-Mar-22	11.00		5.5	221.7	224.2	11.0	245.9	244				
	163.78	155.9	Fri 18-Mar-22	11.00		5.5	233.9	222.7	11.0	253.19	251.6				
	151.21	160.9	Sat 19-Mar-22	11.00		5.5	216.0	229.8	11.0	302.06	300.8				
	136.04	138.1	Sun 20-Mar-22	11.00		5.5	194.3	197.2	11.0	248.71	243.5				
		129.8	Mon 21-Mar-22	11.00		5.5		185.4	11.0	221.45	220				
	122.00	122.7	Tue 22-Mar-22	11.00		5.5	174.3	175.3	11.0	208.50	207.1				
	123.43	124.3	Wed 23-Mar-22	11.00		5.5	176.3	177.5	11.0	204.14	202.8				
	117.25	117.6	Thu 24-Mar-22	11.00		16.5	167.5	168.0	11.0	193.87	192.6				
	111.68	113.9	Fri 25-Mar-22	11.00		16.5	159.5	162.7	11.0	189.21	187.9				
	107.98	109.1	Sat 26-Mar-22	11.00		16.5	154.2	155.8	11.0	180.52	178.7				
	106.15	107.1	Sun 27-Mar-22	11.00		16.5	151.6	153.0	11.0	176.71	174.4				
	108.46	108.2	Mon 28-Mar-22	11.00		16.5	154.9	154.5	11.0	178.89	176.5				
	103.08	105.8	Tue 29-Mar-22	11.00		16.5	147.2	151.1	11.0	184.71	182.2				
	100.24	100.9	Wed 30-Mar-22	11.00		16.5	143.2	144.1	11.0	172.83	170.5				
	98.09	99.13	Thu 31-Mar-22	11.00		7.5	140.1	141.6	11.0	184.03	178.7				
SUM	5,198.53	5298.1		341.0	0.0	348.5	7425.1	7567.3	306.9	7928.1	8269.4	45.0	1.9%	4.3%	

Table 5 - Monthly Environmental Flow release data for Bendora dam

SUM	410730 Gingera (unverified)	410730 Gingera (verified)	Environmental flow release below Bendora Date	Daily base flow	Additional release (pool / riffle)	Planned +/- 50% release regime	Calculated Natural Flow. (Unverified)	Calculated Natural Flow. (Verified)	Adjusted daily base flow. EOM = Revised monthly target	410747 Bendora D/S (Unverified)	410747 Bendora D/S (Verified)	EOM Excess (+) / Shortfall (-) to carry forward	EOM Correction to 410730 , Verified Vs unverified	EOM Correction to 410747 , Verified Vs unverified	Comments
Previous months adjustment									-58.9						
	212.29	196.3	Tue 1-Mar-22	19.00		9.5	467.0	431.9	19.0	218.6	220.1				
	223.04	231.2	Wed 2-Mar-22	19.00		28.5	490.7	508.6	19.0	262.9	260.4				
	188.39	195.4	Thu 3-Mar-22	19.00		28.5	414.5	429.9	19.0	264.2	262.4				
	167.52	171	Fri 4-Mar-22	19.00		28.5	368.5	376.2	19.0	208.9	212.4				
	269.6	221.5	Sat 5-Mar-22	19.00		28.5	593.1	487.3	19.0	201.1	204.5				
	251.5	286.3	Sun 6-Mar-22	19.00		28.5	553.3	629.9	19.0	380.2	372.3				
	216.4	220	Mon 7-Mar-22	19.00		28.5	476.1	484.0	19.0	345.3	337.3				
	216.4	262.9	Tue 8-Mar-22	19.00		28.5	476.1	578.4	19.0	274.2	274.2				
	300.14	322.2	Wed 9-Mar-22	19.00		9.5	660.3	708.8	19.0	342.5	339.4				
	296.72	248.7	Thu 10-Mar-22	19.00		9.5	652.8	547.1	19.0	299.7	291.4				
	241.19	219.4	Fri 11-Mar-22	19.00		9.5	530.6	482.7	19.0	251.9	247.5				
	215.00	200.1	Sat 12-Mar-22	19.00		9.5	473.0	440.2	19.0	222.8	221.8				
	196.40	183.3	Sun 13-Mar-22	19.00		9.5	432.1	403.3	19.0	200.6	200.5				
	180.15	169.7	Mon 14-Mar-22	19.00		9.5	396.3	373.3	19.0	178.8	178				
	160.96	161.7	Tue 15-Mar-22	19.00		9.5	354.1	355.7	19.0	157.5	156.1				
	158.23	158	Wed 16-Mar-22	19.00		28.5	348.1	347.6	19.0	139.5	138.9				
	155.19	157	Thu 17-Mar-22	19.00		28.5	341.4	345.4	19.0	138.3	137.5				
	163.78	155.9	Fri 18-Mar-22	19.00		28.5	360.3	343.0	19.0	136.25	138.1				
	151.21	160.9	Sat 19-Mar-22	19.00		28.5	332.7	354.0	19.0	179.04	176.4				
	136.04	138.1	Sun 20-Mar-22	19.00		28.5	299.3	303.8	19.0	169.52	166.5				
		129.8	Mon 21-Mar-22	19.00		28.5		285.6	19.0	135.26	135				
	122.00	122.7	Tue 22-Mar-22	19.00		28.5	268.4	269.9	19.0	109.35	110.7				
	123.43	124.3	Wed 23-Mar-22	19.00		9.5	271.5	273.5	19.0	155.18	154.3				Dam release increased to reduce reservoir level to facilitate Dam Safety inspection of stilling basin
	117.25	117.6	Thu 24-Mar-22	19.00		9.5	258.0	258.7	19.0	204.05	194.9				
	111.68	113.9	Fri 25-Mar-22	19.00		9.5	245.7	250.6	19.0	241.48	229.3				
	107.98	109.1	Sat 26-Mar-22	19.00		9.5	237.6	240.0	19.0	253.76	240.3				
	106.15	107.1	Sun 27-Mar-22	19.00		9.5	233.5	235.6	19.0	252.29	237.7				
	108.46	108.2	Mon 28-Mar-22	19.00		9.5	238.6	238.0	19.0	244.85	231.3				
	103.08	105.8	Tue 29-Mar-22	19.00		9.5	226.8	232.8	19.0	240.57	226.8				
	100.24	100.9	Wed 30-Mar-22	19.00		36.0	220.5	222.0	19.0	237.38	224.4				
	98.09	99.13	Thu 31-Mar-22	19.00		36.0	215.8	218.1	19.0	239.31	222.5				
SUM	5,198.53	5298.1		589.0	0.0	613.5	11436.8	11655.9	530.1	6885.4	6742.9	72.0	1.9%	-2.1%	

Table 6 - Monthly Environmental Flow release data for Cotter dam

SUM	Environmental flow release below Cotter	Daily base flow	Additional release (pool / riffle)			EOM = Revised monthly target	410700 Cotter D/S (Unverified)	410700 Cotter D/S (Verified)	EOM Excess (+) / Shortfall (-)	EOM Correction to 410700 , Verified Vs unverified	Comments
SUM	Date	flow	(pool / riffle)				(Unverified)	(Verified)			
Previous months adjustment						0.0					
	Tue 1-Mar-22	15				15.0	323.9	323.9			
	Wed 2-Mar-22	15				15.0	318.8	318.8			
	Thu 3-Mar-22	15				15.0	334.8	334.8			
	Fri 4-Mar-22	15				15.0	304.5	304.5			
	Sat 5-Mar-22	15				15.0	329.2	329.2			
	Sun 6-Mar-22	15				15.0	483.4	483.4			
	Mon 7-Mar-22	15				15.0	471.0	471			
	Tue 8-Mar-22	15				15.0	395.5	395.5			
	Wed 9-Mar-22	15				15.0	375.1	362.9			
	Thu 10-Mar-22	15				15.0	372.7	356.8			
	Fri 11-Mar-22	15	100			100.0	325.5	313.6			
	Sat 12-Mar-22	15				15.0	292.1	283.7			
	Sun 13-Mar-22	15				15.0	270.8	263.3			
	Mon 14-Mar-22	15				15.0	248.3	241.8			
	Tue 15-Mar-22	15				15.0	225.4	219.8			
	Wed 16-Mar-22	15				15.0	204.0	199			
	Thu 17-Mar-22	15				15.0	197.8	193.4			
	Fri 18-Mar-22	15				15.0	198.3	194.6			
	Sat 19-Mar-22	15				15.0	209.0	205.8			
	Sun 20-Mar-22	15				15.0	224.2	221.6			
	Mon 21-Mar-22	15				15.0	205.5	203.5			
	Tue 22-Mar-22	15				15.0	178.7	177.3			
	Wed 23-Mar-22	15				15.0	150.6	150			
	Thu 24-Mar-22	15				15.0	198.10	198.1			
	Fri 25-Mar-22	15				15.0	226.41	226.9			
	Sat 26-Mar-22	15				15.0	260.72	261.9			
	Sun 27-Mar-22	15				15.0	269.80	271.6			
	Mon 28-Mar-22	15				15.0	292.46	295.4			
	Tue 29-Mar-22	15				15.0	291.36	294.9			
	Wed 30-Mar-22	15				15.0	276.89	280.9			
	Thu 31-Mar-22	15				15.0	263.4	267.9			
SUM		465.0	100.0			550.0	8718.3	8645.8	8095.8	-0.8%	

Table 7 - Monthly Environmental Flow release data for Googong dam

SUM	410781 Upstream Googong (Unverified)	410781 Upstream Googong (Verified)	Environmental flow release below Googong	Daily base flow	Additional release (pool / riffle)	Calculated Natural Flow. (Unverified)	Calculated Natural Flow. (Verified)	EOM = Revised monthly target	410760 Wickerslack (Unverified)	410760 Wickerslac k (Verified)	EOM Excess (+) / Shortfall (-)	EOM Correction to 410781, Verified Vs unverified	EOM Correction to 410760, Verified Vs unverified	Comments
Previous months adjustment														
	1713.8	1584		Tue 1-Mar-22	10.0		2193.7	2027.5	10.0	2059.42	2059			
	2581.6	2313		Wed 2-Mar-22	10.0		3304.4	2960.6	10.0	2225.05	2225			
	4360.2	4301.0		Thu 3-Mar-22	10.0		5581.0	5505.3	10.0	4003.86	4004			
	2935.5	3170.0		Fri 4-Mar-22	10.0		3757.5	4057.6	10.0	4311.9	4312			
	2551.8	2390.0		Sat 5-Mar-22	10.0		3266.3	3059.2	10.0	3058.2	3058			
	3738.1	3819.0		Sun 6-Mar-22	10.0		4784.8	4888.3	10.0	4151.9	4152			
	2224.3	2360.0		Mon 7-Mar-22	10.0		2847.0	3020.8	10.0	3582.9	3583			
	2224.2	2651.0		Tue 8-Mar-22	10.0		2847.0	3393.3	10.0	2791.3	2791			
	2995.86	3769.0		Wed 9-Mar-22	10.0		3834.7	4824.3	10.0	4182.2	4182			
	3573.55	2382.0		Thu 10-Mar-22	10.0		4574.1	3049.0	10.0	3463.2	3463			
	2140.6	1634.0		Fri 11-Mar-22	10.0	100	2740.0	2091.5	100.0	2228.2	2228			
	1555.4	1315.0		Sat 12-Mar-22	10.0		1990.9	1683.2	10.0	1660.5	1661			
	1266.0	1105.0		Sun 13-Mar-22	10.0		1620.5	1414.4	10.0	1332.8	1333			
	1069.6	956.0		Mon 14-Mar-22	10.0		1369.0	1223.7	10.0	1131.1	1131			
	823.9	837.5		Tue 15-Mar-22	10.0		1054.5	1072.0	10.0	977.18	977.2			
	765.2	780.6		Wed 16-Mar-22	10.0		979.4	999.2	10.0	875.28	875.3			
	739.8	739.9		Thu 17-Mar-22	10.0		947.0	947.1	10.0	809.15	809.2			
	658.61	681.1		Fri 18-Mar-22	10.0		843.0	871.8	10.0	800.76	800.8			
	610.02	622.5		Sat 19-Mar-22	10.0		780.8	796.8	10.0	709.10	709.1			
	533.71	545.6		Sun 20-Mar-22	10.0		683.2	698.4	10.0	640.58	640.6			
		495.0		Mon 21-Mar-22	10.0			633.6	10.0	570.44	570.5			
	453.20	457.8		Tue 22-Mar-22	10.0		580.1	586.0	10.0	520.81	520.8			
	430.55	434.7		Wed 23-Mar-22	10.0		551.1	556.4	10.0	491.13	491.1			
	413.21	416.6		Thu 24-Mar-22	10.0		528.9	533.2	10.0	461.99	462			
	398.97	402.9		Fri 25-Mar-22	10.0		510.7	515.7	10.0	416.49	416.5			
	376.25	380.1		Sat 26-Mar-22	10.0		481.6	486.5	10.0	440.46	440.5			
	366.62	368.0		Sun 27-Mar-22	10.0		469.3	471.0	10.0	397.97	398			
	365.14	361.4		Mon 28-Mar-22	10.0		467.4	462.6	10.0	381.46	381.5			
	364.73	371.4		Tue 29-Mar-22	10.0		466.9	475.4	10.0	386.40	386.4			
	334.63	339.3		Wed 30-Mar-22	10.0		428.3	434.3	10.0	368.59	368.6			
	319.17	322.8		Thu 31-Mar-22	10.0		408.5	413.2	10.0	356.81	356.8			
SUM	42884.0	42306.2			310.0	100.0	54891.6	54151.9	400.0	49787.2	49786.9	49386.9	-1.3%	0.0%

Note:

410781 Upstream Googong verified data is provided every second month.

Table 8 – Monthly flow data for Cotter River Environmental Flows

Date	Cotter River e-flows below Cotter Dam		Comments
	E-flow sourced from Murrumbidgee via M2C	E-flow sourced from Cotter Dam release/spill	
Tue 1-Mar-22	0.0	323.9	
Wed 2-Mar-22	0.0	318.8	
Thu 3-Mar-22	0.0	334.8	
Fri 4-Mar-22	0.0	304.5	
Sat 5-Mar-22	0.0	329.2	
Sun 6-Mar-22	0.0	483.4	
Mon 7-Mar-22	0.0	471	
Tue 8-Mar-22	0.0	395.5	
Wed 9-Mar-22	0.0	362.9	
Thu 10-Mar-22	0.0	356.8	
Fri 11-Mar-22	0.0	313.6	
Sat 12-Mar-22	0.0	283.7	
Sun 13-Mar-22	0.0	263.3	
Mon 14-Mar-22	0.0	241.8	
Tue 15-Mar-22	0.0	219.8	
Wed 16-Mar-22	0.0	199	
Thu 17-Mar-22	0.0	193.4	
Fri 18-Mar-22	0.0	194.6	
Sat 19-Mar-22	0.0	205.8	
Sun 20-Mar-22	0.0	221.6	
Mon 21-Mar-22	0.0	203.5	
Tue 22-Mar-22	0.0	177.3	
Wed 23-Mar-22	0.0	150	
Thu 24-Mar-22	0.0	198.1	
Fri 25-Mar-22	0.0	226.9	
Sat 26-Mar-22	0.0	261.9	
Sun 27-Mar-22	0.0	271.6	
Mon 28-Mar-22	0.0	295.4	
Tue 29-Mar-22	0.0	294.9	
Wed 30-Mar-22	0.0	280.9	
Thu 31-Mar-22	0.0	267.9	
Total	0.0	8645.8	

Table 9 – Monthly flow data for Murrumbidgee to Googong

Date	M2G Flow	Comments
Tue 1-Mar-22	0.0	
Wed 2-Mar-22	0.0	
Thu 3-Mar-22	0.0	
Fri 4-Mar-22	0.0	
Sat 5-Mar-22	0.0	
Sun 6-Mar-22	0.0	
Mon 7-Mar-22	0.0	
Tue 8-Mar-22	0.0	
Wed 9-Mar-22	0.0	
Thu 10-Mar-22	0.0	
Fri 11-Mar-22	0.0	
Sat 12-Mar-22	0.0	
Sun 13-Mar-22	0.0	
Mon 14-Mar-22	0.0	
Tue 15-Mar-22	0.0	
Wed 16-Mar-22	0.0	
Thu 17-Mar-22	0.0	
Fri 18-Mar-22	0.0	
Sat 19-Mar-22	0.0	
Sun 20-Mar-22	0.0	
Mon 21-Mar-22	0.0	
Tue 22-Mar-22	0.0	
Wed 23-Mar-22	0.0	
Thu 24-Mar-22	0.0	
Fri 25-Mar-22	0.0	
Sat 26-Mar-22	0.0	
Sun 27-Mar-22	0.0	
Mon 28-Mar-22	0.0	
Tue 29-Mar-22	0.0	
Wed 30-Mar-22	0.0	
Thu 31-Mar-22	0.0	
Total	0.0	

Table 10 – Monthly water production data and water transferred to Googong reservoir

Day	Stromlo WTP ML			Googong WTP ML	Transfer from SWTP to Googong res.
	M'bidgee	Cotter	Bendora		
1	0.0	0.0	112.8	0.0	0.0
2	0.0	0.0	119.9	5.7	0.0
3	0.0	0.0	122.0	0.0	0.0
4	0.0	0.0	124.7	0.0	0.0
5	0.0	0.0	123.0	0.0	0.0
6	0.0	0.0	120.7	0.0	0.0
7	0.0	0.0	112.2	0.0	0.0
8	0.0	0.0	125.5	0.0	0.0
9	0.0	0.0	136.9	0.0	0.0
10	0.0	0.0	135.8	0.0	0.0
11	0.0	0.0	131.9	0.0	0.0
12	0.0	0.0	123.1	0.0	0.0
13	0.0	0.0	125.4	0.0	0.0
14	0.0	0.0	125.1	0.0	0.0
15	0.0	0.0	127.4	0.0	0.0
16	0.0	0.0	141.0	0.0	0.0
17	0.0	0.0	147.2	0.0	0.0
18	0.0	0.0	137.4	0.0	0.0
19	0.0	0.0	134.4	0.0	0.0
20	0.0	0.0	131.1	0.0	0.0
21	0.0	0.0	126.0	0.0	0.0
22	0.0	0.0	131.5	0.0	0.0
23	0.0	0.0	151.6	0.0	0.0
24	0.0	0.0	141.5	11.3	0.0
25	0.0	0.0	153.9	0.0	0.0
26	0.0	0.0	147.1	0.0	0.0
27	0.0	0.0	133.3	0.0	0.0
28	0.0	0.0	146.9	0.0	0.0
29	0.0	0.0	154.7	0.0	0.0
30	0.0	0.0	145.4	0.0	0.0
31	0.0	0.0	104.5	49.5	0.0
Total	0.0	0.0	4093.9	66.5	0.0

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