



Licence WU67 Monthly Environmental Flow Report August 2021

Version number 1 Effective date 14 September 2021

Document management

Document summary

Title	Licence WU67 Monthly Environmental Flow Report August 2021
Version	1.00
Document status	Final
Date of issue	15 September 2021

Version control

Version	Author	Date	Description	Checked by
1.00	C. Martin	14/8/2021	Report for August 2021	E. Turner

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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	<p>Corin Dam spilled throughout August.</p> <p>Releases were at licence requirements throughout August.</p> <p>On 12-13 August 98% of the annual pool maintenance Flow requirement was achieved with an average daily flow of 537 ML (unverified data) recorded below Corin Dam. The EPA confirmed this has met the licence requirement for the pool maintenance flow. Verified data for the same period shows average total daily flow of 601.5 ML.</p>
Bendora	<p>Bendora Dam spilled throughout August.</p> <p>Releases were at licence requirements throughout August.</p> <p>On 12-13 August flow below Bendora and at Vanity's Crossing peaked at just over 1000 MLD and was greater than the required pool maintenance flow of 550 MLD for 48 hours at Vanity's Crossing. The flow below Bendora was a combination of spillway flow and controlled release. The EPA confirmed this has met the licence requirement for pool maintenance flow.</p>
Cotter	<p>Cotter Dam spilled throughout August.</p> <p>Releases were at licence requirements throughout August.</p>
Googong	<p>Googong Dam spilled throughout August.</p> <p>Googong mini-hydro operated throughout August. Releases were above licence requirements while the mini-hydro was operating.</p>

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 August.
Murrumbidgee To Cotter Eflow	M2C did not operate in August.
Murrumbidgee to Googong	M2G did not operate in August.
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 (+) *	432	432		
Monthly 75% of the 80 th %tile ML #	2760	4320		
Additional release required?	No	No	No	No
Current month's release target	2328	3888	535	390

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

	410730 Gingera (unverified)	410730 Gingera (verified)	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 (Unverified)	410752 Corin D/S (Verified)	EOM Excess (+) / Shortfall (-) to carry forward	EOM Correction to 410730, Verified Vs unverified	EOM Correction to 410752, Verified Vs unverified	Comments
SUM									-192.2						
Previous months adjustment															
	410.8	406.8	Sun 1-Aug-21	62.00		22.5	586.7	581.0	62.0	435.9	511				
	352.8	361	Mon 2-Aug-21	62.00		22.5	503.9	515.6	62.0	421.5	478.3				
	382.4	375.4	Tue 3-Aug-21	62.00		22.5	546.1	536.2	62.0	427.9	475.9				
	360.7	367.3	Wed 4-Aug-21	62.00		22.5	515.1	524.6	62.0	424.1	470.9				
	342.7	345.9	Thu 5-Aug-21	62.00		93.0	489.4	494.0	62.0	399.7	442.9				
	323.9	327.4	Fri 6-Aug-21	62.00		93.0	462.6	467.6	62.0	382.3	423.3				
	306.3	310.5	Sat 7-Aug-21	62.00		93.0	437.5	443.5	62.0	370.9	407.7				
	292.0	294.3	Sun 8-Aug-21	62.00		93.0	417.1	420.3	62.0	352.0	385				
	282.15	283.2	Mon 9-Aug-21	62.00		93.0	403.0	404.5	62.0	342.58	373.7				
	270.58	272.1	Tue 10-Aug-21	62.00		93.0	386.5	388.6	62.0	331.66	357.8				
	533.43	365.4	Wed 11-Aug-21	62.00		93.0	761.9	521.9	62.0	340.3	367.1				
	668.11	772.3	Thu 12-Aug-21	62.00	550	31.0	954.3	1103.1	550.0	582.3	642				
	501.75	518.8	Fri 13-Aug-21	62.00	550	31.0	716.6	741.0	550.0	505.3	561				Pool flush requirement met; confirmed by E&S and EPA
	436.82	446	Sat 14-Aug-21	62.00		31.0	623.9	637.0	62.0	457.7	506.3				
	394.51	400	Sun 15-Aug-21	62.00		31.0	563.5	571.3	62.0	422.4	463.6				
	360.45	364.5	Mon 16-Aug-21	62.00		31.0	514.8	520.6	62.0	398.4	434.9				
	330.81	334.7	Tue 17-Aug-21	62.00		31.0	472.5	478.1	62.0	375.2	407.4				
	307.33	309.6	Wed 18-Aug-21	62.00		31.0	439.0	442.2	62.0	354.66	382.6				
	286.93	288.9	Thu 19-Aug-21	62.00		93.0	409.8	412.6	62.0	340.27	364.3				
	271.64	271.3	Fri 20-Aug-21	62.00		93.0	388.0	387.5	62.0	323.30	342.2				
	259.76	259.4	Sat 21-Aug-21	62.00		93.0	371.0	370.5	62.0	319.54	337.3				
	245.60	245.7	Sun 22-Aug-21	62.00		93.0	350.8	350.9	62.0	306.71	319.7				
	276.42	252.8	Mon 23-Aug-21	62.00		93.0	394.8	361.1	62.0	314.74	333.5				
	307.01	314.8	Tue 24-Aug-21	62.00		93.0	438.5	449.6	62.0	434.57	426				
	271.64	270.6	Wed 25-Aug-21	62.00		93.0	388.0	386.5	62.0	362.07	355.6				
	252.09	253.5	Thu 26-Aug-21	62.00		31.0	360.1	362.1	62.0	334.71	325				
	244.20	240.9	Fri 27-Aug-21	62.00		31.0	348.8	344.1	62.0	321.03	309.9				
	244.23	241.6	Sat 28-Aug-21	62.00		31.0	348.8	345.1	62.0	320.61	309.5				
	261.09	250	Sun 29-Aug-21	62.00		31.0	372.9	357.1	62.0	331.81	324.2				
	242.01	247.1	Mon 30-Aug-21	62.00		31.0	345.7	352.9	62.0	337.98	326.5				
	222.65	221.2	Tue 31-Aug-21	62.00		31.0	318.0	315.9	62.0	296.47	296.5				
SUM	10,242.71	10213.0		1922.0	1100.0	1795.0	14629.7	14587.2	2705.8	11668.3	12461.6	432.0	-0.3%	6.8%	

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									-300.7						
	410.8	406.8	Sun 1-Aug-21	97.00		48.5	903.8	895.0	97.0	787.6	733.8				
	352.8	361	Mon 2-Aug-21	97.00		48.5	776.2	794.2	97.0	777.4	730.2				
	382.4	375.4	Tue 3-Aug-21	97.00		48.5	841.2	825.9	97.0	707.0	707				
	360.7	367.3	Wed 4-Aug-21	97.00		145.5	793.5	808.1	97.0	712.8	708.2				
	342.7	345.9	Thu 5-Aug-21	97.00		145.5	753.9	761.0	97.0	630.0	632.3				
	323.9	327.4	Fri 6-Aug-21	97.00		145.5	712.5	720.3	97.0	562.0	570				
	306.3	310.5	Sat 7-Aug-21	97.00		145.5	673.9	683.1	97.0	510.6	519.6				
	292.0	294.3	Sun 8-Aug-21	97.00		145.5	642.4	647.5	97.0	479.6	483.9				
	282.15	283.2	Mon 9-Aug-21	97.00		145.5	620.7	623.0	97.0	448.32	457.8				
	270.58	272.1	Tue 10-Aug-21	97.00		145.5	595.3	598.6	97.0	430.01	441.5				
	533.43	365.4	Wed 11-Aug-21	97.00		48.5	1173.5	803.9	97.0	420.6	434.1				
	668.11	772.3	Thu 12-Aug-21	97.00	550	48.5	1469.8	1699.1	550.0	804.9	814.4				
	501.75	518.8	Fri 13-Aug-21	97.00	550	48.5	1103.9	1141.4	550.0	872.4	872.6				Pool flush requirement met; confirmed by E&S and EPA
	436.82	446	Sat 14-Aug-21	97.00		48.5	961.0	981.2	97.0	684.5	697.4				
	394.51	400	Sun 15-Aug-21	97.00		48.5	867.9	880.0	97.0	587.4	602.8				
	360.45	364.5	Mon 16-Aug-21	97.00		48.5	793.0	801.9	97.0	521.7	536.8				
	330.81	334.7	Tue 17-Aug-21	97.00		48.5	727.8	736.3	97.0	459.0	476.3				
	307.33	309.6	Wed 18-Aug-21	97.00		145.5	676.1	681.1	97.0	421.63	439				
	286.93	288.9	Thu 19-Aug-21	97.00		145.5	631.2	635.6	97.0	386.75	404.9				
	271.64	271.3	Fri 20-Aug-21	97.00		145.5	597.6	596.9	97.0	360.76	380.9				
	259.76	259.4	Sat 21-Aug-21	97.00		145.5	571.5	570.7	97.0	341.42	361.5				
	245.60	245.7	Sun 22-Aug-21	97.00		145.5	540.3	540.5	97.0	307.22	329.4				
	276.42	252.8	Mon 23-Aug-21	97.00		145.5	608.1	556.2	97.0	317.46	338.9				
	307.01	314.8	Tue 24-Aug-21	97.00		145.5	675.4	692.6	97.0	455.67	468.1				
	271.64	270.6	Wed 25-Aug-21	97.00		48.5	597.6	595.3	97.0	424.33	440.5				
	252.09	253.5	Thu 26-Aug-21	97.00		48.5	554.6	557.7	97.0	335.91	354.2				
	244.20	240.9	Fri 27-Aug-21	97.00		48.5	537.2	530.0	97.0	333.01	351.6				
	244.23	241.6	Sat 28-Aug-21	97.00		48.5	537.3	531.5	97.0	318.17	337.1				
	261.09	250	Sun 29-Aug-21	97.00		48.5	574.4	550.0	97.0	311.58	328.4				
	242.01	247.1	Mon 30-Aug-21	97.00		48.5	532.4	543.6	97.0	340.54	356				
	222.65	221.2	Tue 31-Aug-21	97.00		48.5	489.8	486.6	97.0	316.20	316.2				
SUM	10,242.71	10213.0		3007.0		1100.0	22534.0	22468.6	3612.3	15366.6	15625.4	432.0	-0.3%	1.7%	

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)		Verified Vs unverified	
Previous months adjustment							0.0					
	Sun 1-Aug-21	15					15.0	1197.6	1168			
	Mon 2-Aug-21	15					15.0	1123.5	1086			
	Tue 3-Aug-21	15					15.0	1056.3	1056			
	Wed 4-Aug-21	15					15.0	1110.1	1093			
	Thu 5-Aug-21	15					15.0	1012.7	1011			
	Fri 6-Aug-21	15					15.0	917.9	912.1			
	Sat 7-Aug-21	15					15.0	833.9	830.4			
	Sun 8-Aug-21	15					15.0	759.1	755.8			
	Mon 9-Aug-21	15					15.0	712.6	709.4			
	Tue 10-Aug-21	15					15.0	675.3	672.2			
	Wed 11-Aug-21	15					15.0	647.1	642.2			
	Thu 12-Aug-21	15					15.0	775.7	770.2			
	Fri 13-Aug-21	15					15.0	1040.1	1032			
	Sat 14-Aug-21	15					15.0	935.5	928.1			
	Sun 15-Aug-21	15					15.0	817.6	810.7			
	Mon 16-Aug-21	15					15.0	732.4	724.7			
	Tue 17-Aug-21	15					15.0	649.6	640.5			
	Wed 18-Aug-21	15					15.0	586.5	577.9			
	Thu 19-Aug-21	15					15.0	543.4	535.3			
	Fri 20-Aug-21	15					15.0	503.0	495.6			
	Sat 21-Aug-21	15					15.0	472.5	464.5			
	Sun 22-Aug-21	15					15.0	437.3	429			
	Mon 23-Aug-21	15					15.0	445.9	428.1			
	Tue 24-Aug-21	15					15.0	639.88	627.9			
	Wed 25-Aug-21	15					15.0	646.19	634.1			
	Thu 26-Aug-21	15					15.0	535.45	524.3			
	Fri 27-Aug-21	15					15.0	466.25	454.7			
	Sat 28-Aug-21	15					15.0	453.96	442.8			
	Sun 29-Aug-21	15					15.0	433.20	423.2			
	Mon 30-Aug-21	15					15.0	454.45	443.5			
	Tue 31-Aug-21	15					15.0	422.3	422.3			
SUM		465.0	0.0				465.0	22037.0	21745.5	21280.5	-1.3%	

Table 7 - Monthly Environmental Flow release data for Googong dam

SUM	410781 Upstream Googong (Unverified)	410781 Upstream Googong (Verified)	Environmental flow release below Googong Date	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														
	124.6			Sun 1-Aug-21		10.0		159.5		10.0		206.1		
	133.8			Mon 2-Aug-21		10.0		171.2		10.0		193.6		
	157.3			Tue 3-Aug-21		10.0		201.3		10.0		217.4		
	159.9			Wed 4-Aug-21		10.0		204.7		10.0		229.1		
	143.5			Thu 5-Aug-21		10.0		183.7		10.0		213.7		
	127.8			Fri 6-Aug-21		10.0		163.5		10.0		198.1		
	117.9			Sat 7-Aug-21		10.0		150.9		10.0		182.2		
	112.8			Sun 8-Aug-21		10.0		144.3		10.0		174.8		
	110.85			Mon 9-Aug-21		10.0		141.9		10.0		163.10		
	108.88			Tue 10-Aug-21		10.0		139.4		10.0		151.79		
	110.5			Wed 11-Aug-21		10.0		141.4		10.0		147.13		
	128.2			Thu 12-Aug-21		10.0		164.1		10.0		161.11		
	130.7			Fri 13-Aug-21		10.0		167.3		10.0		163.23		
	127.1			Sat 14-Aug-21		10.0		162.7		10.0		160.93		
	114.8			Sun 15-Aug-21		10.0		146.9		10.0		155.78		
	106.6			Mon 16-Aug-21		10.0		136.4		10.0		147.10		
	101.6			Tue 17-Aug-21		10.0		130.0		10.0		137.47		
	97.04			Wed 18-Aug-21		10.0		124.2		10.0		140.00		
	94.52			Thu 19-Aug-21		10.0		121.0		10.0		136.02		
	91.68			Fri 20-Aug-21		10.0		117.4		10.0		134.44		
	92.30			Sat 21-Aug-21		10.0		118.1		10.0		132.17		
	88.28			Sun 22-Aug-21		10.0		113.0		10.0		132.39		
	101.66			Mon 23-Aug-21		10.0		130.1		10.0		133.98		
	499.88			Tue 24-Aug-21		10.0		639.9		10.0		329.03		
	610.25			Wed 25-Aug-21		10.0		781.1		10.0		464.43		
	472.26			Thu 26-Aug-21		10.0		604.5		10.0		551.80		
	385.82			Fri 27-Aug-21		10.0		493.9		10.0		533.20		
	880.78			Sat 28-Aug-21		10.0		1127.4		10.0		575.22		
	818.90			Sun 29-Aug-21		10.0		1048.2		10.0		924.63		
	644.98			Mon 30-Aug-21		10.0		825.6		10.0		971.77		
	459.41			Tue 31-Aug-21		10.0		588.1		10.0		787.14		
SUM	7454.4	0.0				310.0	0.0	9541.6	0.0	310.0	8948.9			#VALUE! -100.0% #VALUE!

Note:

410781 Upstream Googong verified data is provided every second month.

410760 Queanbeyan River at Wickerslack verified data for August could not be collected due to a new fencing installed by the landowner. ALS Hydrographic are currently negotiating access with the landowner Upstream

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	
Sun 1-Aug-21	0.0	1168	
Mon 2-Aug-21	0.0	1086	
Tue 3-Aug-21	0.0	1056	
Wed 4-Aug-21	0.0	1093	
Thu 5-Aug-21	0.0	1011	
Fri 6-Aug-21	0.0	912.1	
Sat 7-Aug-21	0.0	830.4	
Sun 8-Aug-21	0.0	755.8	
Mon 9-Aug-21	0.0	709.4	
Tue 10-Aug-21	0.0	672.2	
Wed 11-Aug-21	0.0	642.2	
Thu 12-Aug-21	0.0	770.2	
Fri 13-Aug-21	0.0	1032	
Sat 14-Aug-21	0.0	928.1	
Sun 15-Aug-21	0.0	810.7	
Mon 16-Aug-21	0.0	724.7	
Tue 17-Aug-21	0.0	640.5	
Wed 18-Aug-21	0.0	577.9	
Thu 19-Aug-21	0.0	535.3	
Fri 20-Aug-21	0.0	495.6	
Sat 21-Aug-21	0.0	464.5	
Sun 22-Aug-21	0.0	429	
Mon 23-Aug-21	0.0	428.1	
Tue 24-Aug-21	0.0	627.9	
Wed 25-Aug-21	0.0	634.1	
Thu 26-Aug-21	0.0	524.3	
Fri 27-Aug-21	0.0	454.7	
Sat 28-Aug-21	0.0	442.8	
Sun 29-Aug-21	0.0	423.2	
Mon 30-Aug-21	0.0	443.5	
Tue 31-Aug-21	0.0	422.3	
Total	0.0	21745.5	

Table 9 – Monthly flow data for Murrumbidgee to Googong

Date	Murrumbidgee at Angle crossing	M2G Flow	Comments
Sun 1-Aug-21	1651	0.0	
Mon 2-Aug-21	1494	0.0	
Tue 3-Aug-21	1442	0.0	
Wed 4-Aug-21	1350	0.0	
Thu 5-Aug-21	1334	0.0	
Fri 6-Aug-21	1355	0.0	
Sat 7-Aug-21	1241	0.0	
Sun 8-Aug-21	1201	0.0	
Mon 9-Aug-21	1110	0.0	
Tue 10-Aug-21	1030	0.0	
Wed 11-Aug-21	968.3	0.0	
Thu 12-Aug-21	978.1	0.0	
Fri 13-Aug-21	946.9	0.0	
Sat 14-Aug-21	1196	0.0	
Sun 15-Aug-21	1107	0.0	
Mon 16-Aug-21	995.7	0.0	
Tue 17-Aug-21	1038	0.0	
Wed 18-Aug-21	978.3	0.0	
Thu 19-Aug-21	910.5	0.0	
Fri 20-Aug-21	882.2	0.0	
Sat 21-Aug-21	871	0.0	
Sun 22-Aug-21	918.7	0.0	
Mon 23-Aug-21	828.9	0.0	
Tue 24-Aug-21	986.4	0.0	
Wed 25-Aug-21	1255	0.0	
Thu 26-Aug-21	3059	0.0	
Fri 27-Aug-21	2793	0.0	
Sat 28-Aug-21	3013	0.0	
Sun 29-Aug-21	5787	0.0	
Mon 30-Aug-21	4565	0.0	
Tue 31-Aug-21	3441	0.0	
Total	50727.0	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	111.0	0.0	0.0
2	0.0	0.0	115.8	0.0	0.0
3	0.0	0.0	108.4	0.0	0.0
4	0.0	0.0	109.6	0.0	0.0
5	0.0	0.0	109.6	0.0	0.0
6	0.0	0.0	110.4	0.0	0.0
7	0.0	0.0	124.8	0.0	0.0
8	0.0	0.0	129.1	0.0	0.0
9	0.0	0.0	114.2	0.0	0.0
10	0.0	0.0	114.6	0.0	0.0
11	0.0	0.0	108.7	0.0	0.0
12	0.0	0.0	106.5	0.0	0.0
13	0.0	0.0	110.3	0.0	0.0
14	0.0	0.0	116.1	0.0	0.0
15	0.0	0.0	112.2	0.0	0.0
16	0.0	0.0	109.9	0.0	0.0
17	0.0	0.0	118.2	0.0	0.0
18	0.0	0.0	127.0	0.0	0.0
19	0.0	0.0	116.4	0.0	0.0
20	0.0	0.0	114.4	0.0	0.0
21	0.0	0.0	104.2	0.0	0.0
22	0.0	0.0	124.0	0.0	0.0
23	0.0	0.0	118.2	0.0	0.0
24	0.0	0.0	105.7	0.0	0.0
25	0.0	0.0	107.0	0.0	0.0
26	0.0	0.0	114.1	0.0	0.0
27	0.0	0.0	114.7	0.0	0.0
28	0.0	0.0	84.4	0.0	0.0
29	0.0	0.0	114.7	0.0	16.2
30	0.0	0.0	94.9	0.0	0.0
31	0.0	0.0	111.2	0.0	0.0
Total	0.0	0.0	3480.3	0.0	16.2

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