



Licence WU67 Monthly Environmental Flow Report November 2021

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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 November.</p> <p>Releases were at licence requirements throughout November.</p> <p>The bi-monthly riffle release was achieved via overflows.</p> <p>Flow variation was changed from +/- 50% to +/- 25% on 16 September to minimise dislodgement of Macquarie perch eggs in downstream reaches.</p>
Bendora	<p>Bendora Dam spilled throughout November.</p> <p>Releases were at licence requirements throughout November.</p> <p>The bi-monthly riffle release was achieved via overflows.</p> <p>Flow variation was changed from +/- 50% to +/- 25% on 16 September to minimise dislodgement of Macquarie perch eggs in downstream reaches.</p>
Cotter	<p>Cotter Dam spilled throughout November.</p> <p>Releases were at licence requirements throughout November.</p>
Googong	<p>Googong Dam spilled throughout November.</p> <p>Googong mini-hydro operated throughout November. 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 November.
Murrumbidgee To Cotter Eflow	M2C did not operate in November.
Murrumbidgee to Googong	M2G did not operate in November.
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 (+) *	80.6	127.1		
Monthly 75% of the 80 th %tile ML #	806	1271		
Additional release required?	No	No	No	No
Current month's release target	1097	1470	465	310

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 (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
	Previous months adjustment									-129.0					
	128.65	129.9	Mon 1-Nov-21	43.00		53.8	183.8	185.5	43.0	184.69	182.9				
	124.51	125.2	Tue 2-Nov-21	43.00		53.8	177.8	178.8	43.0	177.93	177.9				
	123.69	122.5	Wed 3-Nov-21	43.00		53.8	176.7	175.0	43.0	176.5	176.5				
	292.14	258.7	Thu 4-Nov-21	43.00		53.8	417.3	369.5	43.0	320.98	319.3				
	283.49	280.1	Fri 5-Nov-21	43.00		53.8	404.9	400.1	43.0	403.83	402.1				
	272.73	265.1	Sat 6-Nov-21	43.00		53.8	389.5	378.6	43.0	393.31	391.5				
	264.35	286.6	Sun 7-Nov-21	43.00		53.8	377.6	409.4	43.0	404.36	402.5				
	192.38	222.7	Mon 8-Nov-21	43.00		53.8	274.8	318.1	43.0	340.2	338.2				
	192.38	196.6	Tue 9-Nov-21	43.00		53.8	274.8	280.8	43.0	296.45	292.6				
	204.06	200.7	Wed 10-Nov-21	43.00		53.8	291.5	286.7	43.0	291.26	287.4				
	192.25	188.6	Thu 11-Nov-21	43.00		32.3	274.6	269.4	43.0	286.00	282				
	389.69	358.8	Fri 12-Nov-21	43.00		32.3	556.6	512.5	43.0	425.28	419.1				
	435.77	407.5	Sat 13-Nov-21	43.00		32.3	622.4	582.0	43.0	506.07	502.2				
	455.03	462.8	Sun 14-Nov-21	43.00		32.3	649.9	661.0	43.0	551.56	545.6				
	412.82	426.9	Mon 15-Nov-21	43.00		32.3	589.6	609.7	43.0	538.24	533.9				
	363.96	374.2	Tue 16-Nov-21	43.00		32.3	519.8	534.5	43.0	492.9	486.2				
	327.97	334.9	Wed 17-Nov-21	43.00		32.3	468.4	478.3	43.0	452.6	447.4				
	298.12	303.7	Thu 18-Nov-21	43.00		53.8	425.8	433.8	43.0	420.4	416				
	294.71	284.4	Fri 19-Nov-21	43.00		53.8	420.9	406.2	43.0	398.4	392.4				
	358.89	361.6	Sat 20-Nov-21	43.00		53.8	512.6	516.5	43.0	453.2	445.3				
	304.14	311.2	Sun 21-Nov-21	43.00		53.8	434.4	444.5	43.0	432.8	426.8				
	273.59	279.2	Mon 22-Nov-21	43.00		53.8	390.8	398.8	43.0	391.9	384.5				
	253.49	257.2	Tue 23-Nov-21	43.00		53.8	362.1	367.4	43.0	360.71	352.6				
	268.6	263.6	Wed 24-Nov-21	43.00		53.8	383.6	376.5	43.0	367.47	358.2				
	605.93	478.5	Thu 25-Nov-21	43.00		32.3	865.4	683.4	43.0	469.89	460.8				
	921.07	872.7	Fri 26-Nov-21	43.00		32.3	1315.6	1246.5	43.0	805.8	796				
	887.48	953.2	Sat 27-Nov-21	43.00		32.3	1267.6	1361.5	43.0	921.39	913.1				
	709.05	737.7	Sun 28-Nov-21	43.00		32.3	1012.7	1053.7	43.0	768.76	760.3				
	599.68	620.1	Mon 29-Nov-21	43.00		32.3	856.5	885.7	43.0	668.07	658.7				
	511.99	528.6	Tue 30-Nov-21	43.00		32.3	731.3	755.0	43.0	603.64	595.5				
SUM	10942.6	10893.5		1290.0	0.0	1333.0	15629.3	15559.2	1161.0	13304.6	13147.5	80.6	-0.4%	-1.2%	

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									-201.0						
	128.65	129.9	Mon 1-Nov-21	67.00			83.8	283.0	285.8	67.0	114.58	114.6			
	124.51	125.2	Tue 2-Nov-21	67.00			83.8	273.9	275.4	67.0	105.65	105.7			
	123.69	122.5	Wed 3-Nov-21	67.00			83.8	272.1	269.5	67.0	104.40	104.3			
	292.14	258.7	Thu 4-Nov-21	67.00			83.8	642.7	569.1	67.0	228.87	228.1			
	283.49	280.1	Fri 5-Nov-21	67.00			83.8	623.7	616.2	67.0	540.26	538			
	272.73	265.1	Sat 6-Nov-21	67.00			83.8	600.0	583.2	67.0	659.50	655.6			
	264.35	286.6	Sun 7-Nov-21	67.00			83.8	581.6	630.5	67.0	658.83	654.7			
	192.38	222.7	Mon 8-Nov-21	67.00			83.8	423.2	489.9	67.0	530.78	525.8			
	192.38	196.6	Tue 9-Nov-21	67.00			83.8	423.2	432.5	67.0	430.26	426.1			
	204.06	200.7	Wed 10-Nov-21	67.00			50.3	448.9	441.5	67.0	382.20	377.1			
	192.25	188.6	Thu 11-Nov-21	67.00			50.3	423.0	414.9	67.0	360.40	355.5			
	389.69	358.8	Fri 12-Nov-21	67.00			50.3	857.3	789.4	67.0	500.89	493.1			
	435.77	407.5	Sat 13-Nov-21	67.00			50.3	958.7	896.5	67.0	791.90	780.7			
	455.03	462.8	Sun 14-Nov-21	67.00			50.3	1001.1	1018.2	67.0	990.20	974.2			
	412.82	426.9	Mon 15-Nov-21	67.00			50.3	908.2	939.2	67.0	1024.57	1008			
	363.96	374.2	Tue 16-Nov-21	67.00			50.3	800.7	823.2	67.0	882.28	865.8			
	327.97	334.9	Wed 17-Nov-21	67.00			83.8	721.5	736.8	67.0	758.27	743.3			
	298.12	303.7	Thu 18-Nov-21	67.00			83.8	655.9	668.1	67.0	641.99	627.6			
	294.71	284.4	Fri 19-Nov-21	67.00			83.8	648.4	625.7	67.0	554.21	540.5			
	358.89	361.6	Sat 20-Nov-21	67.00			83.8	789.5	795.5	67.0	607.25	591.7			
	304.14	311.2	Sun 21-Nov-21	67.00			83.8	669.1	684.6	67.0	637.89	620.9			
	273.59	279.2	Mon 22-Nov-21	67.00			83.8	601.9	614.2	67.0	549.78	533.8			
	253.49	257.2	Tue 23-Nov-21	67.00			83.8	557.7	565.8	67.0	474.44	459.8			
	268.60	263.6	Wed 24-Nov-21	67.00			50.3	590.9	579.9	67.0	465.06	450.2			
	605.93	478.5	Thu 25-Nov-21	67.00			50.3	1333.0	1052.7	67.0	604.92	585			
	921.07	872.7	Fri 26-Nov-21	67.00			50.3	2026.4	1919.9	67.0	1660.32	1617			
	887.48	953.2	Sat 27-Nov-21	67.00			50.3	1952.5	2097.0	67.0	2276.56	2221			
	709.05	737.7	Sun 28-Nov-21	67.00			50.3	1559.9	1622.9	67.0	1913.07	1863			
	599.68	620.1	Mon 29-Nov-21	67.00			50.3	1319.3	1364.2	67.0	1515.28	1462			
	511.99	528.6	Tue 30-Nov-21	67.00			50.3	1126.4	1162.9	67.0	1264.81	1219			
SUM	10,942.61	10893.5		2010.0	0.0	2043.5	24073.7	23965.7	1809.0	22229.4	21742.1	127.1	-0.4%	-2.2%	

Table 6 - Monthly Environmental Flow release data for Cotter dam

SUM	Environmental flow release below Cotter Date	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
Previous months adjustment						0.0					
	Mon 1-Nov-21	15				15.0	191.22	191.2			
	Tue 2-Nov-21	15				15.0	177.25	177.3			
	Wed 3-Nov-21	15				15.0	169.00	169			
	Thu 4-Nov-21	15				15.0	334.01	334			
	Fri 5-Nov-21	15				15.0	1231.94	1232			
	Sat 6-Nov-21	15				15.0	1830.52	1830			
	Sun 7-Nov-21	15				15.0	2048.61	2043			
	Mon 8-Nov-21	15				15.0	1493.89	1489			
	Tue 9-Nov-21	15				15.0	1077.62	1074			
	Wed 10-Nov-21	15	100			100.0	848.72	845.2			riffle release achieved
	Thu 11-Nov-21	15				15.0	750.24	747			
	Fri 12-Nov-21	15				15.0	1121.19	1117			
	Sat 13-Nov-21	15				15.0	1526.59	1521			
	Sun 14-Nov-21	15				15.0	1890.73	1885			
	Mon 15-Nov-21	15				15.0	1898.04	1892			
	Tue 16-Nov-21	15				15.0	1609.51	1599			
	Wed 17-Nov-21	15				15.0	1321.75	1312			
	Thu 18-Nov-21	15				15.0	1115.62	1107			
	Fri 19-Nov-21	15				15.0	953.89	946.4			
	Sat 20-Nov-21	15				15.0	878.03	871			
	Sun 21-Nov-21	15				15.0	929.84	922.5			
	Mon 22-Nov-21	15				15.0	839.51	832.6			
	Tue 23-Nov-21	15				15.0	728.61	722.2			
	Wed 24-Nov-21	15				15.0	744.14	737.2			
	Thu 25-Nov-21	15				15.0	1445.37	1432			
	Fri 26-Nov-21	15				15.0	3419.05	3396			
	Sat 27-Nov-21	15				15.0	3652.36	3630			
	Sun 28-Nov-21	15				15.0	3049.20	3027			
	Mon 29-Nov-21	15				15.0	2268.83	2250			
	Tue 30-Nov-21	15				15.0	1794.25	1777			
SUM		450.0	100.0			535.0	41339.54	41108.6	40573.6	-0.6%	

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								-27801.4						
	201.66	201.1	Mon 1-Nov-21	10.00		258.1	257.4	10.0	227.39	221.9				
	193.16	191.4	Tue 2-Nov-21	10.00		247.2	245.0	10.0	210.32	210.3				
	183.73	181.1	Wed 3-Nov-21	10.00		235.2	231.8	10.0	199.01	199				
	703.53	476.9	Thu 4-Nov-21	10.00		900.5	610.4	10.0	447.06	447.1				
	1110.67	1153	Fri 5-Nov-21	10.00		1421.7	1475.8	10.0	1291.46	1291				
	1025.44	983.1	Sat 6-Nov-21	10.00		1312.6	1258.4	10.0	1331.48	1331				
	1179.3	1207	Sun 7-Nov-21	10.00		1509.5	1545.0	10.0	1935.79	1936				
	870.2	914.9	Mon 8-Nov-21	10.00		1113.9	1171.1	10.0	1504.34	1504				
	645.2	683.4	Tue 9-Nov-21	10.00		825.8	874.8	10.0	1068.88	1069				
	539.0	530.5	Wed 10-Nov-21	10.00		689.9	679.0	10.0	799.41	799.4				
	499.8	511.3	Thu 11-Nov-21	10.00		639.8	654.5	10.0	679.82	679.8				
	2342.5	1891	Fri 12-Nov-21	10.00	100	2998.5	2420.5	100.0	1763.55	1764				Riffle released achieved
	2703.12	2610	Sat 13-Nov-21	10.00		3460.0	3340.8	10.0	4084.69	4085				
	2361.02	2588	Sun 14-Nov-21	10.00		3022.1	3312.6	10.0	5008.57	5009				
	1359.95	1513	Mon 15-Nov-21	10.00		1740.7	1936.6	10.0	2988.38	2988				
	886.6	945.3	Tue 16-Nov-21	10.00		1134.8	1210.0	10.0	1701.06	1701				
	658.3	682.6	Wed 17-Nov-21	10.00		842.7	873.7	10.0	1107.90	1108				
	546.9	556.5	Thu 18-Nov-21	10.00		700.0	712.3	10.0	826.66	826.7				
	486.8	485.4	Fri 19-Nov-21	10.00		623.2	621.3	10.0	671.97	672				
	1101.9	826.2	Sat 20-Nov-21	10.00		1410.5	1057.5	10.0	716.24	716.2				
	1418.0	1547	Sun 21-Nov-21	10.00		1815.1	1980.2	10.0	1484.56	1485				
	847.1	912.5	Mon 22-Nov-21	10.00		1084.2	1168.0	10.0	1351.28	1351				
	646.97	664.2	Tue 23-Nov-21	10.00		828.1	850.2	10.0	960.15	960.2				
	567.61	567.9	Wed 24-Nov-21	10.00		726.5	726.9	10.0	782.63	782.6				
	3466.14	1914	Thu 25-Nov-21	10.00		4436.7	2449.9	10.0	1635.92	1636				
	6126.7	6666	Fri 26-Nov-21	10.00		7842.2	8532.5	10.0	10643.95	10644				
	4089.4	4499	Sat 27-Nov-21	10.00		5234.4	5758.7	10.0	7755.28	7755				
	2219.01	2482	Sun 28-Nov-21	10.00		2840.3	3177.0	10.0	4538.15	4538				
	1569	1569	Mon 29-Nov-21	10.00		2008.3	2008.3	10.0	2583.21	2583				
	1113.63	1170	Tue 30-Nov-21	10.00		1425.4	1497.6	10.0	1742.36	1742				
SUM	41662.4	41123.3		300.0	100.0	53327.8	52637.8	-27411.4	62041.5	62035.2	80.6	-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	
Mon 1-Nov-21	0.0	191.2	
Tue 2-Nov-21	0.0	177.3	
Wed 3-Nov-21	0.0	169	
Thu 4-Nov-21	0.0	334	
Fri 5-Nov-21	0.0	1232	
Sat 6-Nov-21	0.0	1830	
Sun 7-Nov-21	0.0	2043	
Mon 8-Nov-21	0.0	1489	
Tue 9-Nov-21	0.0	1074	
Wed 10-Nov-21	0.0	845.2	
Thu 11-Nov-21	0.0	747	
Fri 12-Nov-21	0.0	1117	
Sat 13-Nov-21	0.0	1521	
Sun 14-Nov-21	0.0	1885	
Mon 15-Nov-21	0.0	1892	
Tue 16-Nov-21	0.0	1599	
Wed 17-Nov-21	0.0	1312	
Thu 18-Nov-21	0.0	1107	
Fri 19-Nov-21	0.0	946.4	
Sat 20-Nov-21	0.0	871	
Sun 21-Nov-21	0.0	922.5	
Mon 22-Nov-21	0.0	832.6	
Tue 23-Nov-21	0.0	722.2	
Wed 24-Nov-21	0.0	737.2	
Thu 25-Nov-21	0.0	1432	
Fri 26-Nov-21	0.0	3396	
Sat 27-Nov-21	0.0	3630	
Sun 28-Nov-21	0.0	3027	
Mon 29-Nov-21	0.0	2250	
Tue 30-Nov-21	0.0	1777	
Total	0.0	62035.2	

Table 9 – Monthly flow data for Murrumbidgee to Googong

Date	Murrumbidgee at Angle crossing	M2G Flow	Comments
Mon 1-Nov-21	849	0.0	
Tue 2-Nov-21	749	0.0	
Wed 3-Nov-21	760	0.0	
Thu 4-Nov-21	775	0.0	
Fri 5-Nov-21	852	0.0	
Sat 6-Nov-21	984	0.0	
Sun 7-Nov-21	1566	0.0	
Mon 8-Nov-21	1676	0.0	
Tue 9-Nov-21	1449	0.0	
Wed 10-Nov-21	1342	0.0	
Thu 11-Nov-21	1215	0.0	
Fri 12-Nov-21	1403	0.0	
Sat 13-Nov-21	1973	0.0	
Sun 14-Nov-21	6637	0.0	
Mon 15-Nov-21	7524	0.0	
Tue 16-Nov-21	4138	0.0	
Wed 17-Nov-21	2882	0.0	
Thu 18-Nov-21	2235	0.0	
Fri 19-Nov-21	1802	0.0	
Sat 20-Nov-21	1669	0.0	
Sun 21-Nov-21	1853	0.0	
Mon 22-Nov-21	2248	0.0	
Tue 23-Nov-21	2078	0.0	
Wed 24-Nov-21	1830	0.0	
Thu 25-Nov-21	2474	0.0	
Fri 26-Nov-21	16052	0.0	
Sat 27-Nov-21	33954	0.0	
Sun 28-Nov-21	23708	0.0	
Mon 29-Nov-21	12236	0.0	
Tue 30-Nov-21	7387	0.0	
Total	146299	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	145.9	0.0	0.0
2	0.0	0.0	151.2	0.0	0.0
3	0.0	0.0	147.5	0.0	0.0
4	0.0	0.0	145.3	0.0	0.0
5	0.0	0.0	135.1	0.0	0.0
6	0.0	0.0	109.8	0.0	0.0
7	0.0	0.0	105.1	0.0	0.0
8	0.0	0.0	118.3	0.0	0.0
9	0.0	0.0	114.8	0.0	0.0
10	0.0	0.0	109.4	0.0	0.0
11	0.0	0.0	104.6	0.0	0.0
12	0.0	0.0	110.4	0.0	0.0
13	0.0	0.0	116.7	0.0	0.0
14	0.0	0.0	115.0	0.0	0.0
15	0.0	0.0	118.1	0.0	0.0
16	0.0	0.0	117.7	0.0	0.0
17	0.0	0.0	110.7	0.0	0.0
18	0.0	0.0	116.2	0.0	0.0
19	0.0	0.0	132.4	0.0	0.0
20	0.0	0.0	135.5	0.0	0.0
21	0.0	0.0	119.5	0.0	0.0
22	0.0	0.0	115.6	0.0	0.0
23	0.0	0.0	117.2	0.0	0.0
24	0.0	0.0	114.8	0.0	0.0
25	0.0	0.0	114.4	0.0	0.0
26	0.0	0.0	113.2	0.0	0.0
27	0.0	0.0	124.8	0.0	0.0
28	0.0	0.0	111.1	0.0	0.0
29	0.0	0.0	131.6	0.0	0.0
30	0.0	0.0	133.6	0.0	0.0
31					
Total	0.0	0.0	3655.5	0.0	0.0

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