

In accordance with your approval, the daily records have been taken from the Blue Tier Gauge since the 13th June, 1901. The gauge is situated about 10 chains down stream from the junction of the Sun and Moon Creeks.

In my preliminary Report on proposed water conservation in the Blue Tier District, dated 23rd September, 1901, I mention that I would judge the catchment-area which sends its water to abovenamed gauge to be, say, 1.4 square miles, and the combined direct and indirect catchment-areas for the proposed Wheal Tasman Flat Power Reservoir to be, say, 12 square miles.

I have computed the daily records from the last 14 months, and therefrom drawn euclosed diagrams, from which the daily rainfall and quantities which have passed through the gauge may be readily learnt.

I have also computed the table below, from which it may be observed that the rainfall during the last 14 months has been 80.50 inches. The evaporation during the same time I have reckoned to be 21½ inches; and it appears, then, from the table that if the Power-Reservoir had been operation during that period, and forwarded 13 sluice-heads per flow (day and night and Sundays included) the rectangle of the recent included. included), the water-level of the reservoir would, on the 31st August, 1902, have been 5 inches higher than it was on the 1st July, 1901.

> I have the honour to be, Sir,

Your obedient Servant,

K. L. RAHBEK, M. Dan. Assoc. C.E.

To the Honourable the Minister of Lands and Works, Hobart.

A2805

PROPOSED WHEAL TASMAN FLAT POWER RESERVOIR (BLUE, TIER)

Fourteen Months' Record (Quantities measured Daily through Gauge).

Monthly Quantities stated in Million Cubic Feet.

Year.	Months.		ed Quantities gh Gauge.		ed Monthly, poration.	Monthly Con- sumption.	Surplus.	Deficiency
1901	July August September October November December January	Rainfall. (Inches.) 3 · 17 8 · 93 11 · 41 6 · 61 1 · 69 1 · 1 · 34 15 · 08	9:149 20:606 41:640 18:772 5:366 1:709 34:642	Inches. 1 1 1 1 1 2 2 2 2	0.363 0.726 1.089 1.089 1.452 1.452	14·025 14·025 18·573 14·025 13·573 14·025 14·025	5-855 26-978 3-658	5.2
1902	February March April May June July August	1 · 84 4 · 50, 1 · 84 1 · 36 13 · 85, 4 · 37, 4 · 61	1.966	21 22 2 11 12 1	1.815 1.813 1.452 1.089 0.363 0.726	12.668 14.025 13.573 14.025 13.573 14.025 14.025	26-597	12:44. 7:150 12:022 13:146 3:871 0:931
	. · · · · · Total	80:50	1 212:457	211	15:609	198 (185	81.895	78 228

The daily consumption is reckoned at 13 sluice-heads = 452,425 cubic feet per 24 horris.

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JOHN VAIL, GOVERNMENT PRINTER, TASMANIA. Parliament of Tasmania.

THE BLUE TIER GAUGE :

Report By Mr. K. L. Rahbek, M.Dan. Assoc. C.E.

3/19

Presented to both Houses of Parliament by His Excellency's Command.

(Cost of printing and lithographing (400)-£12.11.6)

THE BLUE TIER GAUGE: REPORT BY MR. K. L. RAHBEK

Hobart, 17th September, 1902
To the Honourable the Minister of Lands and Works, Hobart.
Sir,

In accordance with your approval, the daily records have been taken from the Blue Tier Gauge since the 13th June, 1901.

The gauge is situated about 10 chains down stream from the junction of the Sun and Moon Creeks.

In my preliminary Report on proposed water conservation in the Blue Tier District, dated 23rd September, 1901, I mention that I would judge the catchment-area which sends its water to abovenamed gauge to be, say, 1.4 square miles, and the combined direct and indirect catchment-areas for the proposed Wheal Tasman Flat Power Reservoir to be, say 13 square miles.

I have computed the daily records from the last 14 months, and therefrom drawn enclosed diagrams, from which the daily rainfall and quantities which have passed through the gauge may be readily learnt.

I have also computed the table below, from which it may be observed that the rainfall during the last 14 months has been 80.50 inches. The evaporation during the same time I have reckoned to be $21\frac{1}{2}$ inches; and it appears, then, from the table that if the Power-Reservoir had been in operation during that period, and forwarded 13 sluice-heads per diem (day and night and Sundays included), the water-level of the reservoir would, on the 31st August 1902, have been 5 inches higher than it was on the 1st July, 1901.

I have the honour to be, Sir, your obedient Servant, K. L. RAHBECK, M. Dan. Assoc.

Proposed Wheal Tasman Flat Power Reservoir(Blue Tier)
Fourteen Months' Record(Quantities measured Daily through Gauge).

(4)

Monthly Quantities stated in Million Cubic Feet.

(August 8.93 20.606 1 0.726 14.025 5.855 (September. 11.41 41.640 1½ 1.089 13.573 26.978 (October 6.61 18.772 1½ 1.089 14.025 3.658 (November 1.69 5.366 2 1.452 13.573 9.5 (December 1.34 1.709 2 1.452 14.025 13.5 (December 1.84 2.043 2½ 1.815 14.025 18.802 12.4 (March 4.50 8.620 2½ 1.815 14.025 12.4 (May 1.84 3.003 2 1.452 13.573 12.4 (May 1.36 1.966 1½ 1.089 14.025 13.5 (July 1.36 1.966 1½ 1.089 14.025 13.5 (July 4.27 10.517 ½ 0.363 13.573 26.597 (August 4.61 13.820 1 0.726 14.025 0.61	Year.	Months.	Measured (through (Quantities Gauge.	Assumed Evapora		Monthly Con- sumption	Surp]w	Deficiency
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1901 (September 11.41		(July	3.17	9.149	1/2	0.363	14.025		5.239
1901. (October 6.61 18.772 1½ 1.089 14.025 3.658 (November 1.69 5.366 2 1.452 13.573 9.7 (December 1.34 1.709 2 1.452 14.025 13.7 (January 15.08 34.642 2½ 1.815 14.025 18.802 (February 1.84 2.043 2½ 1.815 12.668 12.4 (March 4.50 8.620 2½ 1.815 14.025 7. (April 1.84 3.003 2 1.452 13.573 12.4 (May 1.36 1.966 1½ 1.089 14.025 13.7 (June 13.85 40.534 ½ 0.363 13.573 26.597 (July 4.27 10.517 ½ 0.363 14.025 3.4 (August 4.61 13.820 1 0.726 14.025 0.		(August	8.93	20.606	1	0.726	14.025	5.855	•••
(November. 1.69 5.366 2 1.452 13.573 9.7 (December. 1.34 1.709 2 1.452 14.025 13.7 (January. 15.08 34.642 2½ 1.815 14.025 18.802 (February. 1.84 2.043 2½ 1.815 12.668 12.4 (March. 4.50 8.620 2½ 1.815 14.025 7.6 (April. 1.84 3.003 2 1.452 13.573 12.4 (May. 1.36 1.966 1½ 1.089 14.025 13.6 (June. 13.85 40.534 ½ 0.363 13.573 26.597 (July. 4.27 10.517 ½ 0.363 14.025 3.6 (August. 4.61 13.820 1 0.726 14.025 0.6	4.004	(September.	11.41	41.640	1월	1.089	13.573	26.978	
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(February 1.84 2.043 2½ 1.815 12.668 12.4 (March 4.50 8.620 2½ 1.815 14.025 7.4 (April 1.84 3.003 2 1.452 13.573 12.6 (May 1.36 1.966 1½ 1.089 14.025 13.6 (June 13.85 40.534 ½ 0.363 13.573 26.597 (July 4.27 10.517 ½ 0.363 14.025 3.6 (August 4.61 13.820 1 0.726 14.025 0.6		(December	1.34	1.709	2	1.452	14.025		13.7
(March		(January	15.08	34.642	21/2	1.815	14.025	18.802	
1902. (April 1.84 3.003 2 1.452 13.573 12.6 (May 1.36 1.966 1½ 1.089 14.025 13.6 (June 13.85 40.534 ½ 0.363 13.573 26.597 (July 4.27 10.517 ½ 0.363 14.025 3.6 (August 4.61 13.820 1 0.726 14.025 0.6		(February	1.84	2.043	21/2	1.815	12.668		12.44
1902. (May 1.36 1.966 1½ 1.089 14.025 13.6 (June 13.85 40.534 ½ 0.363 13.573 26.597 (July 4.27 10.517 ½ 0.363 14.025 3.6 (August 4.61 13.820 1 0.726 14.025 0.		(March	4.50	8.620	2 2	1.815	14.025		7.150
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(July 4.27 10.517 ½ 0.363 14.025 3.664 13.820 1 0.726 14.025 0.665	190%.		1.36	1.966	1 1 2	1.089	14.025		13.14
(August 4.61 13.820 1 0.726 14.025 0.		June	13.85	40.534	1/2	0.363	13.573	26.597	
		July	4.27	10.517	1/2	0.363	14.025		3.871
Total 80.50 212.457 213 15.609 193.185 81.890 78.		(August	4.61	13.820	1	0.726	14.025		0.931
		Total	80.50	212.457	21½	15.609	193.185	81.890	78.228

The daily consumption is reckoned at 13 sluice-heads = 452,425 cubic feet per 24 hours.

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THE BLUE TIER SCHEME

THE WHEAL TASMAN FLAT GAUGE

Situate about 10 chains down Stream from the junction of the Sun and the Moon Creeks.

DIAGRAMS

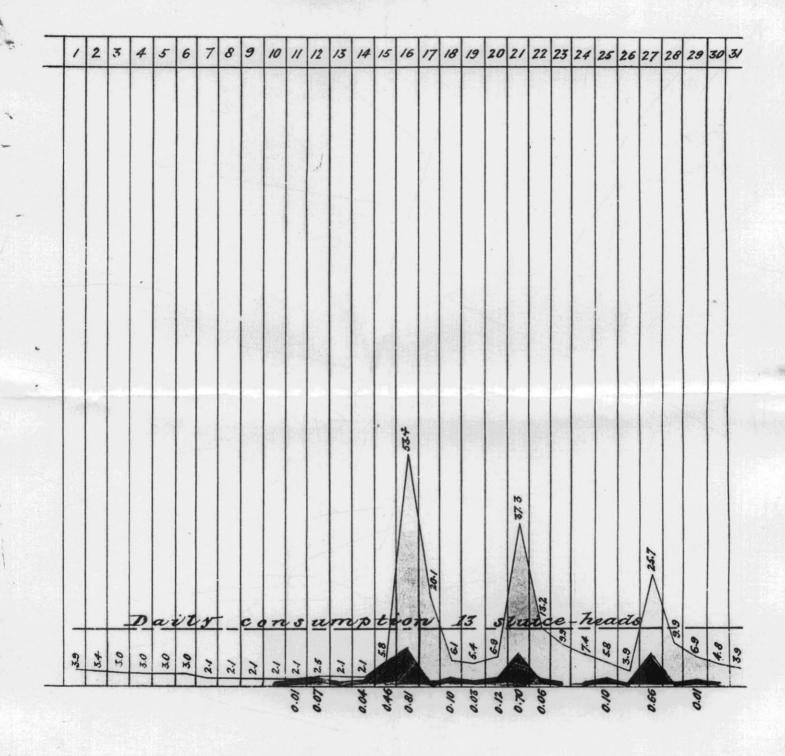
Showing the daily rain fall and the daily quantities of water which passed through the Gauge from the 1st July 1901 to the 31st August 1902.

- Scales { 2 inches of rain fall to an inch. 20 stuice-heads to an inch.



K. K. 19/1902

- July 1901.



Rain fall = 3.17 inches

262.9 stuice-heads = 8.4 stuice-heads per diem.

JOHN VAIL COVERNMENT PRINTER TASMANIA.

(7)

Rain Latt = 8.93 inches 592.1 stuice heads = 19.1 stuice heads per diem.	592.1 stuice heads = 19.1 stuice heads per diem.															195				
592.1 stuice heads = 19.1 stuice heads per diem.	592.1 stuice heads = 19.1 stuice heads per diem.																			
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JOHN VAIL GOVERNMENT PRINTER, TASMANIA.

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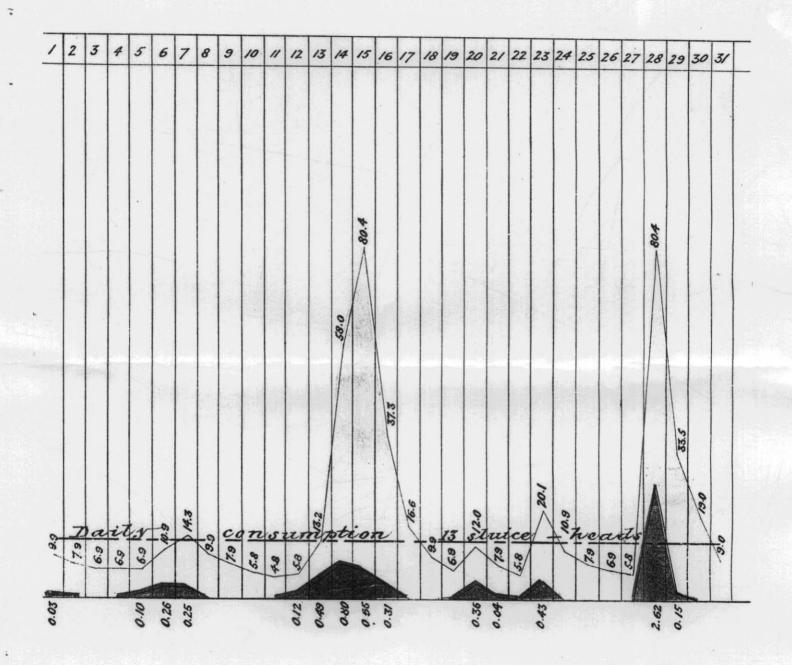
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\$4.8 -\$70 -\$2.6 \$55.7 \$55.7 \$55.7 \$55.5 \$55.5
34.8 -370 -30.2 47.0 38.2 55.5
34.8 -370 -30.2 47.0 38.2 55.5
34.8

Rain fall = 11.41 inches

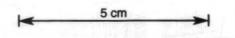
1196.5 sluce-heads = 39.9 sluice heads per diem!

- October 1901.



Rain fall = 6.61 inches

539.4 sluice heads = 17.4 sluice heads per diem.



-November 1901.

Daily consumption 13 strice heads
Daily consumption 13 strice heads

Rain fall = 1.69 inches

154.2 stuice heads = 5.1 stuice heads per diem.

JOHN VALL CONCORNEY POWERS TARREST

5 cm →

——December 1901.——

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Rain fall = 1.34 inches

49.1 sluice-heads = 1.58 sluice-heads per diem.

JOHN VAIL GOVERNMENT PRINTER, TREMANIA.

5 cm

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JOHN VAIL GOVERNMENT PRINTER, TASMANIA

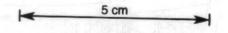
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- February 1902.

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Rain fall = 1.84 inches

58.7 sluice-heads = 2.1 sluice-heads per diem.

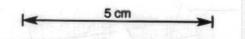


JOHN VAIL GOVERNMENT PRINTER TO MAKE

- March 1902.

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Rain fall = 4.50 inches
249.7 sluice-heads = 8 stuice-heads per diem.



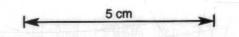
JOHN VALL GOVERNMENT PRINTED TRANSPORT

- April 1902.

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Rain fall = 1.84 inches

86.3 sluice-heads = 2.8 sluice-heads per diem.



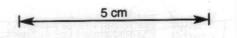
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- May 1902.

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Rain fall = 1.36 inches

56.5 sluice-heads = 1.8 sluice-heads per diem.



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TOWN VALL GOVE THINKEN FROM ST. TASMANIA

5 cm

18/19

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Rain fall = 4.27 inches

302.2 sluice-heads = 9.7 sluice-heads per diem.

|< 5 cm →

JOHN VAIL COVERNMENT PRINTER TESMINIA

19 is

-- August 1902.

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0.176

Rain fall = 4.61 inches

397.1 sluice heads = 12.8 sluice-heads per diem.

5 cm

JOHN VAIL GOVERNMENT PRINTER TARMANIA