N2M02.

28—12/1/34—100,000. 8.

Z. 20.

Record Cover. Irrigation Department.
Departement.

Rekord-omslag.

File No. S.9
Lêer No.

Subject SILT CALCULATIONS.
Onderwerp

SUNDAYS RIVER.

File No.
Lêer No.

References: Af. 01 Jansenville
Referensies:

3

G.P.-S.207—1940—2,000.

Silt.

IRRIGATION DEPARTM...

I.D. No. 42.

To bring Ac Ft to tons multiply by 1360.

Sundays River - Jansenville
Silt in Suspension

Year	Period	Flow Ac. Ft.	Silt Tons.	% by Weight.
Up to 23/6/35		471 295	7606 800	1·19
1936	9-14 March.	21 215	378 000	1·31
	29-31 "	7510	58 390	0·57
	28-30 Oct.	10 410	113 780	0·80
	16 Nov-8 Dec	33 890	168 770	0·37
1937	23-31 Jan	16,128.	214,026.	0·98
	6-9 Feb.	8,738	196,956.	1.66.
	20-23 "	5,157.	34,373.	0·49
	26 Feb-8 March	34,854.	711,327.	1·56.
	23-27 Nov.	5,186	39,246.	0·56.
	17-26 Dec	77,871.	1,571,627.	1·48
1938.	29-31 Jan.	2529.	22,550.	0.66
	16-19 Feb.	~~2,852~~ 2,870.	18,759.	0·48.
		69,653	1164804	
1938	10-12 Nov.	1070.	1,092.	0·28
	16-19 Nov.	1470.	2,476.	0·12.
1939	23+24 Jan.	1200	22,460.	1·38
	16-24 Feb.	25,302	473,720.	1·38
		726,695	11,667,552.	
	Aug 1939	55,858	1,057,088.	
1940	Jan 1940	8,500	189,307.	
	Feb. 1940	60,077.	~~69,065~~ 485,677.	
	March 1940	7,231.	66,538	
		858,361	13,466,162	= 1.15 %.

$\frac{11,667,552}{726,695} \times \frac{100}{136} = 1.18$

$\frac{1164804 00}{948,808,080} = 1.18$

G.P.-S.207—1940—2,000. Silt. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No..... Station..... Jansenville.

Discharge of the Sundays for the month of March 1940.

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
19	0	0	0	8.5	0	0		
	19	2360	6.52	15.5	15,387	238,499		
20	7	2260	7.23	8.5	16,340	138,890		
	12	1970	9.47	6	18,656	111,936		
	19	1550	4.92	9.5	7,626	72,447		
21	7	850	2.12	8.5	1,802	15,317		
	12	730	1.36	6	993	5958		
	19	530	1.00	9.5	530	5035		
22	7	370	0.46	18	170	3,060		
23	7	130	0.15	15.5	20	310		
	24	20	0	8.5	0	0		
						591,452 × 0.1125 Tons.		
						66,538 Tons.		

13/5/40

Forward								

[P.T.O.

BINDING MARGIN.

G.P.-S.207—1940—2,000. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No..... Station..Jamaicaville.....

Discharge of the..Sundays.....for the month of..February.....1940.

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
4	0	3500	0.	3.5	0	0.		
	7	19,300	12.00 ~~11.9~~	6	231,600	1,389,600		
	12	12,000	8.43	6	101,160	606,960		
	19	4,820	6.27	9.5	30,221	287,100		
5	7	5630	20.18	8.5	113,613	965,710.		
	12	~~3500~~ 4000	4.80	6	19,200	115,200		
	19	2660	4.17.	9.5	11,092.	105,374.		
6	7	1850	2.41	8.5	4,458	37,893.		
	12	1250	9.81	6	12,263.	73,578		
	19	1000	1.00	9.5	1000	9,500		
7	7	730	0.94	18	686.	12,348		
8	7	370	0.35	20.5	130	2,665		
	24	60	0	8.5	0	0		
17	0	4000	0.	3.5	0	0		
	7	4000	3.38	6	13,520	81,120		
	12	3170	2.39	6	7,576	45,456		
	19	4820	3.09	9.5	14,894	141,493		
18	7	3850	2.19	8.5	8,431	71,663.		
	12	3000	2.05	6	6,150	36,900		
	19	2510	2.09	9.5	~~7,679~~ 5,245	49,827.		
19	7	2260	2.90	8.5	6,554	55,709.		
	12	1450	1.21	6	1,754	10,524		
	19	1350	1.38	9.5	1,863.	17,698		
Forward					~~99,440~~	4,116,318		

[P.T.O.

BINDING MARGIN.

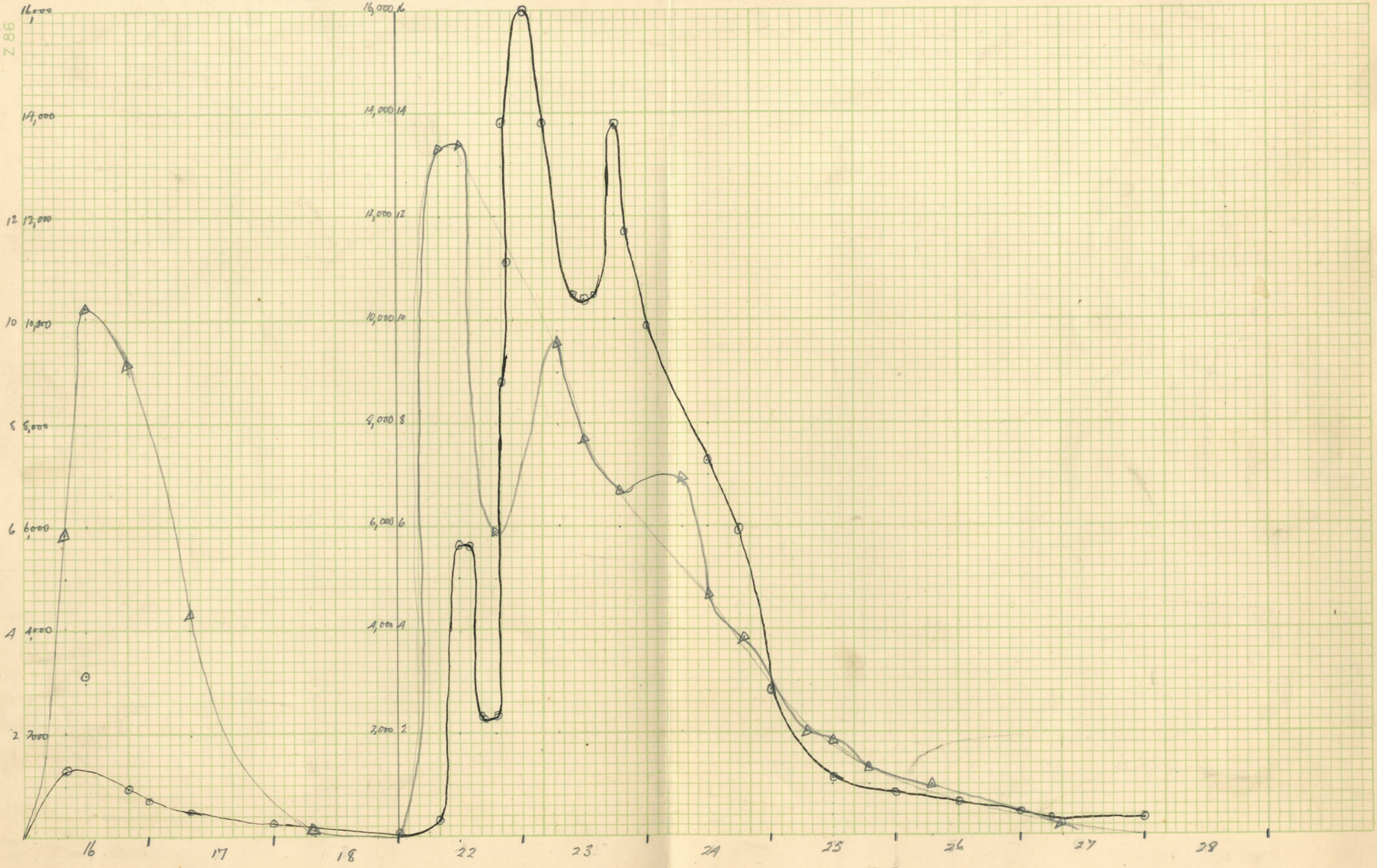
.....River. I.D. 42.

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
						[illegible]	4,116,318	
20	7	1000	2.12	8.5	2130	18,020		
	12	800	1.69	6	1352	8,112		
	19	700	1.30	9.5	910	8,645		
21	7	670	0.92	14.5	616	8,932		
	24	290	0	8.5	0	0		
	0	1230	0	3.5	0	0		
24	7	1100	2.78	6	3058	18,348		
	12	900	4.08	6.5	3672	23,868		
	20	2120	4.47	9.5	9,476	90,022		
25	7	630	1.43	17.5	901	15,767		
26	7	600	0.58	24	348	8,352		
27	7	220	0.22	15.5	48	744		
	24	150	0.	8.5	0.	4,317,128	× 0.1125 Tons.	
					[illegible] Tons			
					60,[illegible] Tons.	= 485,679 Tons.		
						[illegible] 12/2/41		

Forward

BINDING MARGIN.

Z 86


16,000
14,000
12 12,000
10 10,000
8 8,000
6 6000
4 4,000
2 2000
16,000 K
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12,000 12
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G.P.-S.207—1940—2,000. Silt. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No..... Station... Jansenville

Discharge of the... Sundays ...for the month of... January ...1940...

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
15	0	0	0	6	0.	0		
	12	2360	19.33	10	45,619	456,190		
	20	950	12.63	10	11,999	119,990		
16	8	600	6.22	11	3732	41,052		
	18	300	1.66	12	498	5,976		
17	8	4820	12.73	9	61,359	552,231		
	12	3170	15.45	5	48,977	244,875		
	18	1970	9.67	10	19,050	190,500		
18	8	730	4.82	12	3,519.	42,228		
	18	630	3.55	12	2,237.	26,844		
19	8	360	0.60	15	216	3,240		
	24	0	0	8	0.	0.		
						1,682,733 × 0.1125 Tons.		
						189,307 Tons.		
						Duff 12/2/41		
Forward								

BINDING MARGIN.

[P.T.O.

G.P.-S.207—1940—2,000. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No..... Station..Jansenville.....

Discharge of the Sundays for the month of Aug 1939.

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
16	0	0	0	4	0	0		
	8	1250	5.86	6	7325	43,930		
	12	3170	10.28	6	32,588	195528		
	20	950	9.17	10	8,711	87,110		
17	8	422	4.31	18	1,819	32,742		
18	8	130	0.13	20	17	340		
~~24~~	24	25	0	8	0	0		
22	0		0	4	0	0		
	8	370	13.36	6	4,943	29,658		
	12	5730	13.42	5.5	75,555	415,553		
	19	2360	5.91	9.5	13,947	132,496		
23	7	13800	9.59	8.5	132,342	1,124,907		
	12	10400	7.68	6	79,872	479,232		
	19	13800	6.70	9.5	92,460	878,370		
24	7	8000	6.97	8.5	55,760	5,492,360		
	12	7270	4.63	6	33,660	201,960		
	19	5960	3.84	9.5	22,886	217,417		
25	7	~~4150~~ 2000	2.08	8.5	4,160	35,360		
	12	1180	1.88	6	2,218	13,308		
	19	1000	1.36	9.5	1,360	12,920		
26	7	630	1.02	18	643	1,157		
27	7	460	0.21	20.5	97	1,989		
	24		0	8.5	0	0		
						9,396,337 × 0.1125 Tons.		
Forward						1,057,088 Tons		

[P.T.O.

12/2/40

BINDING MARGIN.

G.P.-S.8004—1/10/35—2,000. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No. 130 Station Jamesville

Discharge of the Sunday's River for the month of February 1939.

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours = Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
16	0	0	0	6	0	0		
	12	0	·30	7	0	0		
	14	2360	4·70	2	11,092	22,184		
	16	1130	5·30	3	6,315	18,645		
	20	880	4·30	4	3784	15,136		
	24	880	8·60	3	7568	37,840		
17	6	1180	10·0	6	11,800	70,800		
	12	4000	9·40	6	84,600	507,600		
	18	8080	18·80	5	151,904	759,520		
	22	8080	18·40	3	148,672	446,016		
	24	8000	17·80	4·5	142,400	640,800		
18	7	7270	14·50	6	105,415	632,490		
	12	4000	9·90	4·5	39,600	178,200		
	16	2830	8·00	6	22,640	135,840		
	24	2310	6·00	8	13,860	110,880		
19	8	1500	4·00	9	60,000	540,000		
	18	1350	2·90	8	3915	31,320		
	24	1200	2·90	9	3480	31,320		
20	12	680	1·90	12	1292	15504		
	24	470	1·60	12	752	9024		
21	12	310	1·20	12	372	4,464		
	24	~~300~~ 250	·80	12	200	2400		
22	12	180	·40	12	72	864		
	24	130	0	12	0	0		
2								
Forward						4,210,847		

[P.T.O.

BINDING MARGIN.

Sundays – River. – Jamesville. I.D. 42.

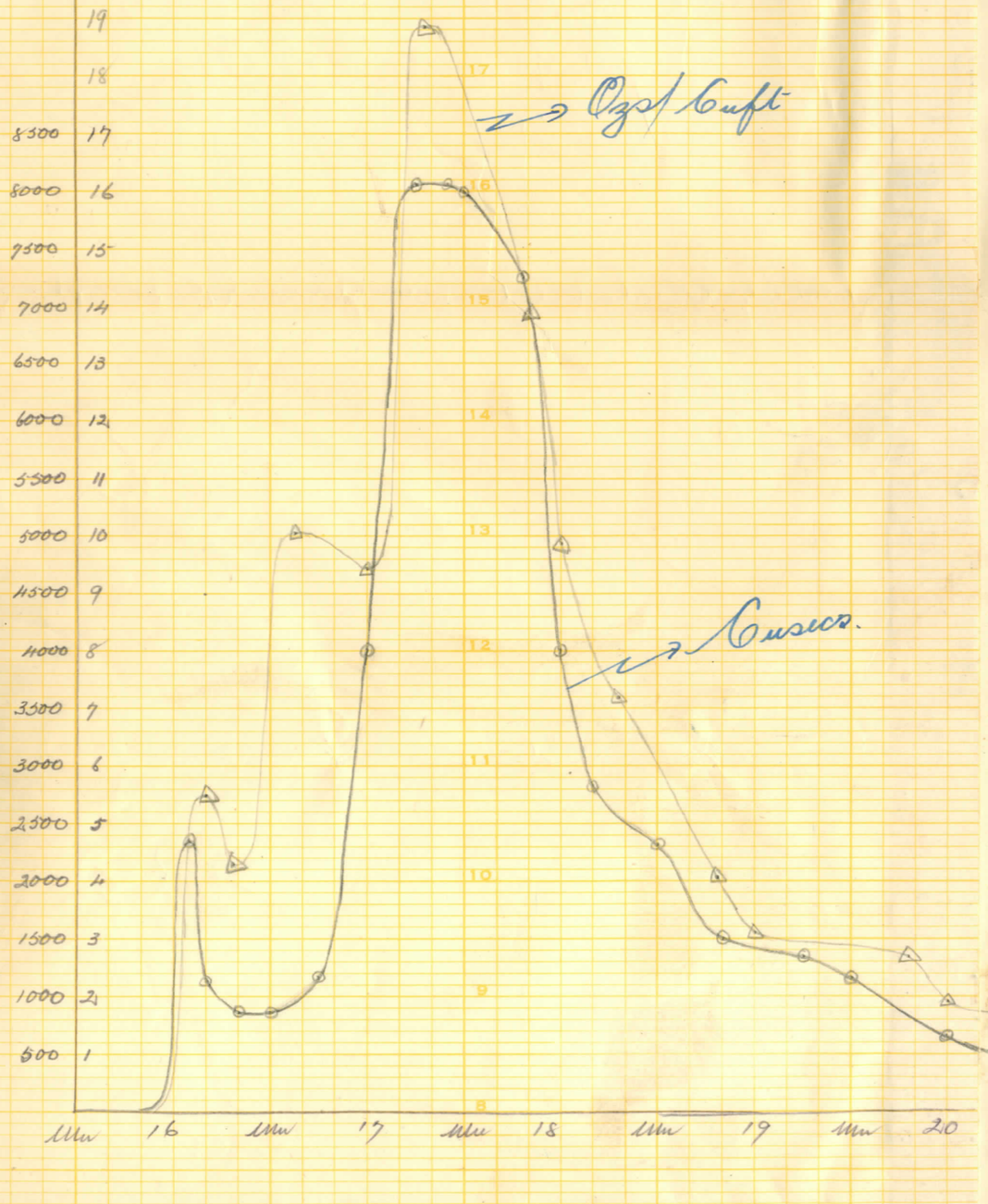
1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
Brought forward.						4,210,847		
23	12	110	0	12	0	0		
	24	60	0	12	0	0		
24	12	30	0	12	0	0		
	24	0	0	6	0	0		
						4,210,847 ×	0.1125 Tons	
						473,720 Tons →		
						24/7/39		
Forward								

BINDING MARGIN.

Silt

Sundays River - Kansmond

16th - 24th February 1939.



G.P.-S.8004—1/10/35—2,000. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No. 130 Station Jansenville

Discharge of the Sunday's River for the month of January 1939.

1 Date.	2 Time of Observation.	3 Height above lowest sill or above zero of flood-gauge in feet.	4 Discharge. Cubic feet per Second.	5 Duration of Discharge. Hours.	6 Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	7 Total Product per day.	8 Total Discharge in Cubic Feet per day (Col. 7 × 3600).	9 Remarks.
23	0	0	0	5	0	0		
	10	0	16	6	0	0		
	12	1250	? 18.10	4.5	22,625	101,813		
	19	730	? 14.60	6	10,658	63,948		
	24	500	? 10.00	6	5,000	30,000		
24	7	130	? 4.10	6	533	3198		
	12	50	1.50	6.5	75	488		
	20	50	.60	6	30	180		
	24	30	30	2	9	18		
						199,646 x 0.1125 Tons		
						= 22,460 Tons → ?		
Forward								

J. 24/6/39.

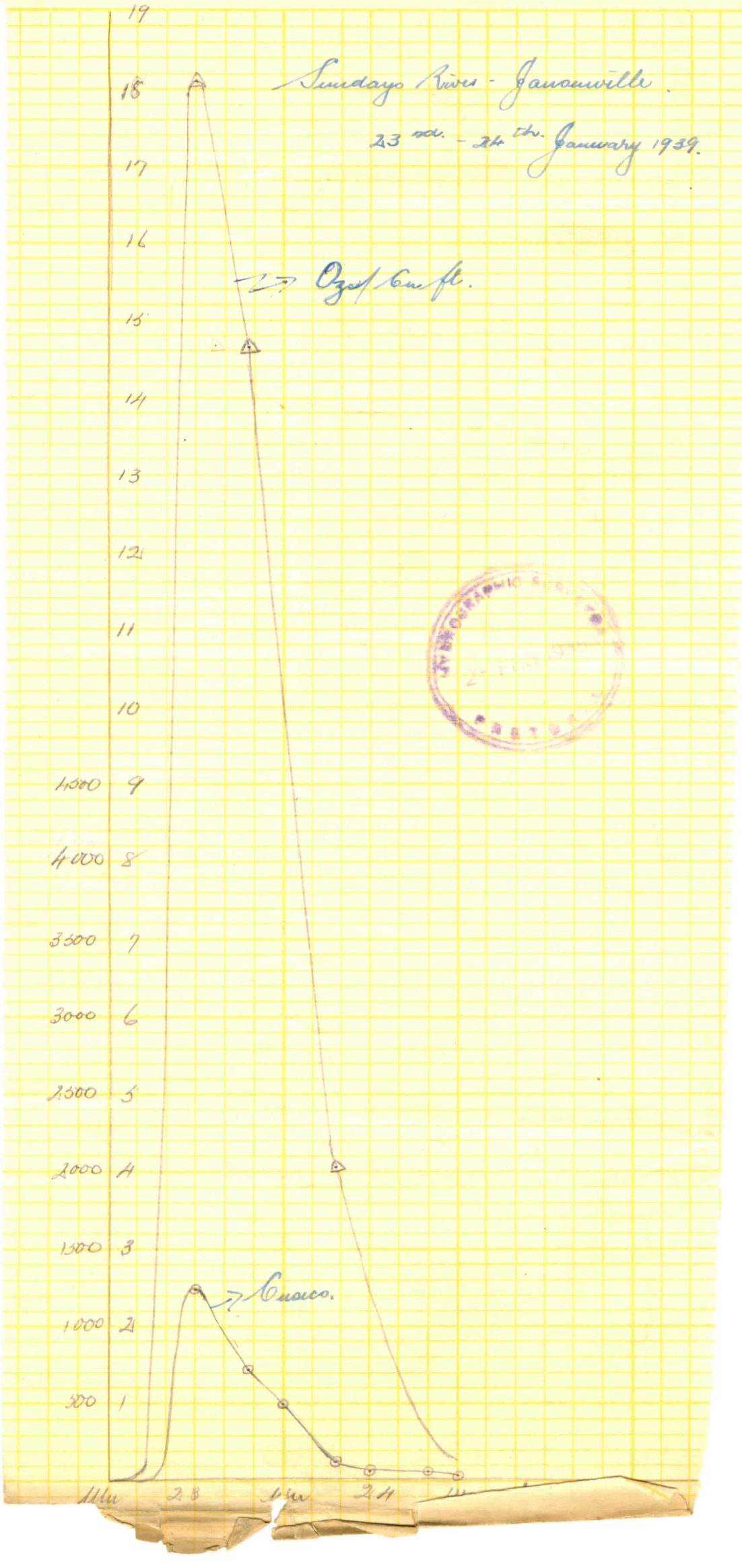
Hierdie hoeveelheid slik is heeltemal te veel vir die hoeveelheid water wat daar was!

[P.T.O.

BINDING MARGIN.

ECORDER.

DIAGRAM Nº. L 290



G.P.-S.8004—1/10/35—2,000. I.D. No. 42.

IRRIGATION DEPARTMENT.

Catchment No. 130 Station Jansenville

Discharge of the Sundays River for the month of November 1938.

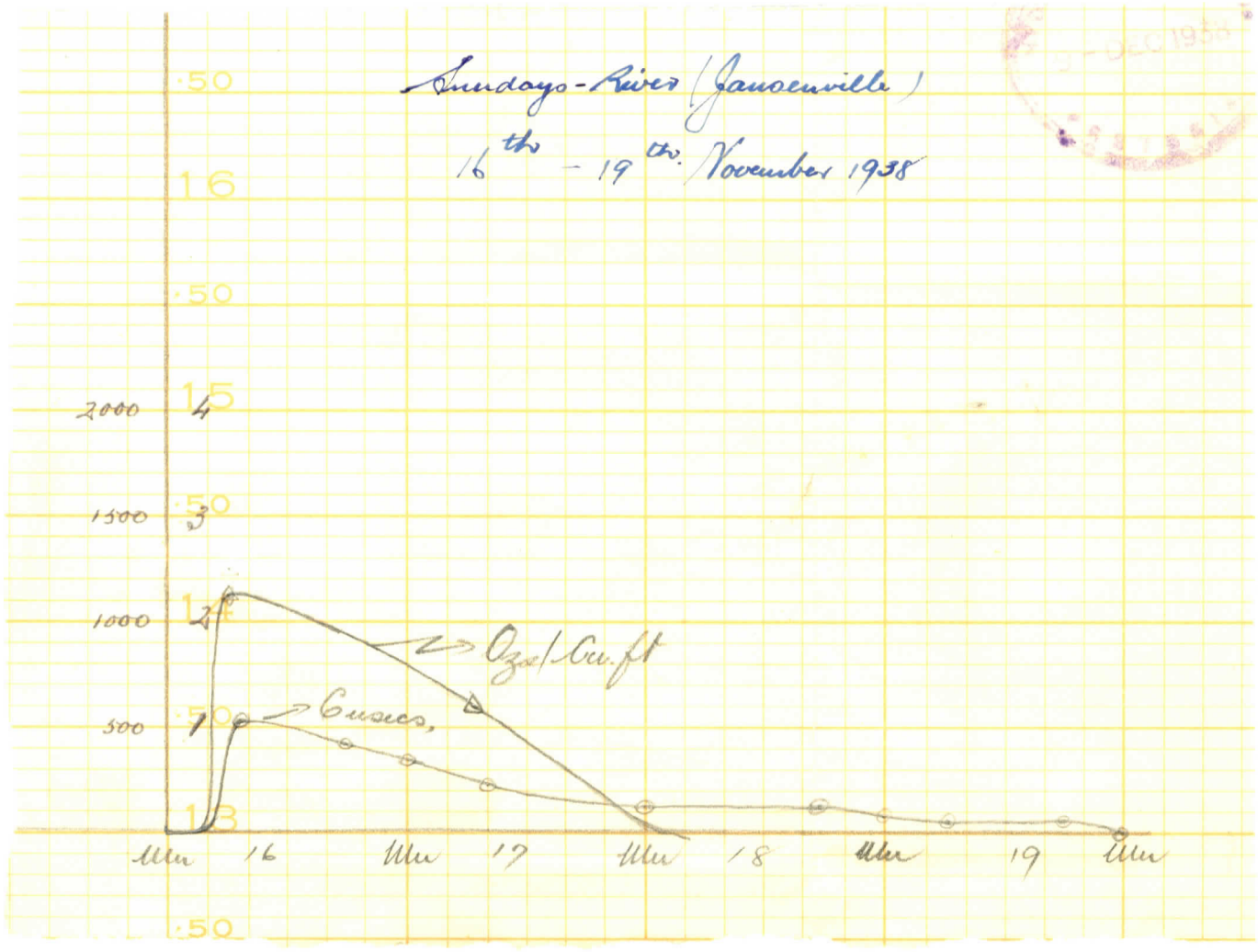
1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours= Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
16	0	00	0	4	0	0		
	4	00	0	3·5	0	0		
	7	530	2·30	7	1219	8,533.		
	18	420	1·80	8·5	756.	6,426		
	24	370	1·60	7	592	4,144		
17	8	220	1·10	12	242	2904		
	24	130	0	17	0	0		
18	18	130	0	12	0	0		
	24	90	0	6	0	0		
19	6	30	0	9	0	0		
	18	30	0	9	0	0		
	24	0	0	3	0	0		
						22.007		
						22.007 × 0·1125 Tons.		
						2476 Tons.		
						J. 24/7/39		
Forward								

BINDING MARGIN.

[P.T.O.

Sundays - River (Jamestown)

16th - 19th. November 1938



G.P.-S.8004—1/10/35—2,000. I.D. No. 42.

IRRIGATION DEPARTMENT.

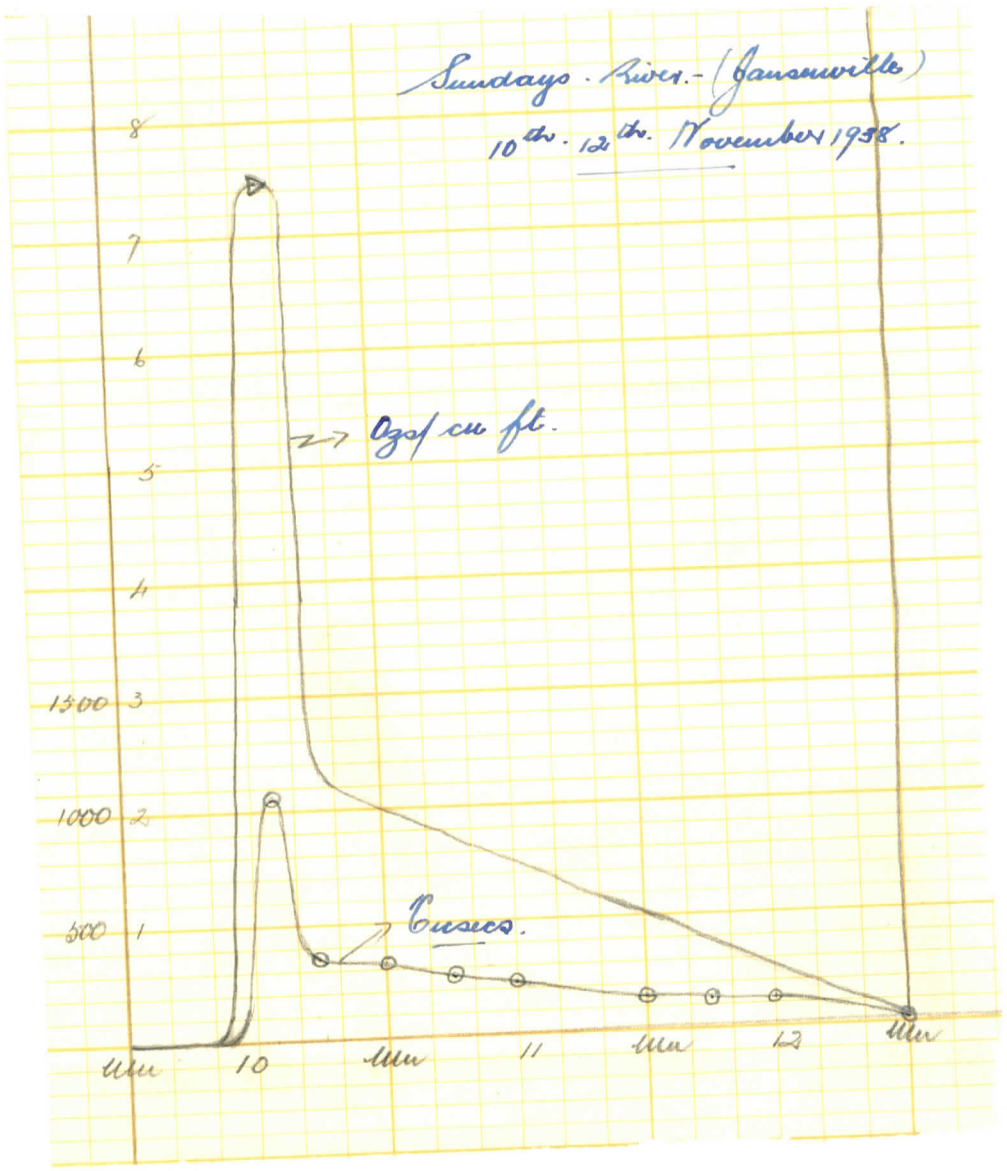
Catchment No. 130 Station Jousenville

Discharge of the Sunday's River for the month of November 1938.

1	2	3	4	5	6	7	8	9
Date.	Time of Observation.	Height above lowest sill or above zero of flood-gauge in feet.	Discharge. Cubic feet per Second.	Duration of Discharge. Hours.	Product Mean Discharge × No. of hours = Col. 4 × Col. 5.	Total Product per day.	Total Discharge in Cubic Feet per day (Col. 7 × 3600).	Remarks.
10	0	0	10	7	0	0		
	14	0	7·50	7·5	0	0		
	15	1050	7·40	2·0	9770	19540		
	18	370	2·40	4·5	888	3996		
	24	340	2·00	6	680	4080		
11	6	290	1·70	6	493	2958		
	12	240	1·50	9	360	3240		
	24	150	1·00	9	150	1350		
12	6	130	·80	6	104	624		
	12	130	·50	9	65	585		
	24	0	0	6	0	0		
						36,373 × 0·1125		
						4.092 Tons.		
						J. 24/7/39		
Forward								

[P.T.O.

BINDING MARGIN.


Sundays. River.- (Jansenville)
10th. 12th. November 1938.
8
7
6
5
4
3
2
1
1500
1000
500
Ozs/ cu ft.
Cusecs.
10
11
12