

$$C \sum x + m \sum x^2 = \sum xy$$

$$Cn + m \sum x = \sum y$$

$$C 48 \cdot 39 + 189 \cdot 46m = 183 \cdot 70 \quad (1)$$

$$C 13 + 48 \cdot 39m = 46 \cdot 94 \quad (2)$$

Multiply each equation by coefficient of c thus—

$$c \ 629 \cdot 07 + 2462 \cdot 98m = 2388 \cdot 10$$

$$c \ 629 \cdot 07 + 2341 \cdot 59m = 2271 \cdot 43$$

$$121 \cdot 49m = 116 \cdot 67$$

$$m = \cdot 961$$

Substitute value of m in (2)—

$$c \ 13 + (48 \cdot 39 \times \cdot 961) = 46 \cdot 94$$

$$c \ 13 + 46 \cdot 50 = 46 \cdot 94$$

$$c = \cdot 03$$

Thus the equation from 0 to 15 seconds becomes—

$$\therefore v = \frac{y = \cdot 961x + \cdot 03}{t} + \cdot 03$$

$$v = \frac{48 \cdot 05}{t} + \cdot 03$$

From 15 seconds onwards.

No. of Observations.	Length of base.	$t =$ Time in Seconds for 50 revolutions.	Revolutions per Second.	Velocity in feet per Second.	x^2 .	xy .
			x	y		
1	48·2	20·7	2·41	2·33	5·81	5·62
2	48·7	22·0	2·27	2·21	5·15	5·02
3	97·6	50·5	1·98	1·93	3·92	3·82
		(100 rev.)				
4	48·4	21·2	2·36	2·28	5·57	5·38
5	49·4	21·9	2·28	2·26	5·20	5·15
6	48·9	25·1	1·99	1·95	3·96	3·88
7	49·3	27·1	1·84	1·82	3·39	3·35
8	50·6	30·0	1·67	1·69	2·79	2·82
9	50·3	34·5	1·45	1·46	2·10	2·12
10	50·2	38·5	1·30	1·30	1·69	1·69
11	49·3	36·4	1·37	1·35	1·88	1·85
12	50·8	41·0	1·22	1·24	1·49	1·51
13	49·4	39·0	1·28	1·27	1·64	1·63
14	51·3	46·8	1·07	1·10	1·14	1·18
15	51·9	62·7	·80	·83	·64	·66
16	50·2	73·9	·68	·70	·46	·48
17	52·5	68·4	·73	·77	·53	·56
18	51·7	82·5	·61	·63	·37	·39
19	49·5	57·7	·87	·86	·76	·75
20	50·3	68·4	·73	·73	·53	·54
21	84·1	59·1	·85	·81	·72	·69
22	47·3	62·3	·80	·76	·64	·61
22 = n			30·56	30·30	50·38	49·60

$$c \sum x + m \sum x^2 = \sum xy$$

$$c n + m \sum x = \sum y$$

$$c \ 30 \cdot 56 + m \ 50 \cdot 38 = 49 \cdot 60 \quad (1)$$

$$c \ 22 \cdot 00 + m \ 30 \cdot 56 = 30 \cdot 30 \quad (2)$$

Multiply each equation by coefficient of c —

$$c \ 672 \cdot 32 + m \ 1108 \cdot 36 = 1091 \cdot 20$$

$$c \ 672 \cdot 32 + m \ 933 \cdot 91 = 925 \cdot 97$$

$$174 \cdot 45 m = 165 \cdot 23$$

$$m = \cdot 947$$

Substituting value of m in (2)
we have—

$$c \ 22 + (30.56 \times .947) = 30.30$$

$$c \ 22 = 1.36$$

$$c = .06$$

Thus the equation from 15
seconds to infinity becomes—

$$y = .947x + .06$$

$$\text{or } v = \frac{.947 \times 50}{t} + .06$$

$$v = \frac{47.35}{t} + .06$$

It will be noticed in the higher velocities that an error of $\frac{1}{10}$ seconds in timing one contact to the next will make an appreciable difference in the calculated velocity; it is therefore the practice, when measuring velocities of 4 feet upwards, to give a longer run—that is, three or four contacts' time, and take the mean for fifty revolutions, on one contact for which the meter is rated.

The following is a list giving articles of equipment required for gauging purposes.

- | | |
|--|-------------------------------|
| 1 meter complete. | 1 14-in. level. |
| 2 stop watches. | 1 14-ft. staff. |
| 2 spare dry cells. | 1 7-lb. sounding lead. |
| 1 brass bar. | 1 axe. |
| 3 10-lb. lead weights. | 1 tomahawk. |
| 2 5-lb. lead weights. | 1 handsaw. |
| 1 boat. | 1 screw-wrench. |
| 1 coil 50 ft. insulated wire. | 1 pair cutting pliers, large. |
| 1 coil 120 ft. insulated wire. | 1 pair cutting pliers, small. |
| 3 lengths each 500 ft. flexible wire. | 1 file. |
| 3 lengths each 150 ft. flexible wire. | 1 chisel, wood, |
| 1 iron winder. | 1 chisel, cold. |
| 1 iron traveller. | 1 gouge. |
| 1 outrigger wheel. | 1 hammer. |
| 6 double galvanised-iron blocks.* | 1 brace and set bits. |
| 6 single galvanised-iron blocks.* | 2 reels copper binding wire. |
| 300 ft. $\frac{1}{2}$ -in. sashcord. | 6 sheets emery paper. |
| 1 500 ft. $\frac{1}{8}$ band chain and winder. | 1 bottle phonogram oil. |
| 1 100 ft. box tape steel feet and decimals. | 1 tool-bag. |
| | 1 iron box. |

* For straining wires.

Diagram C

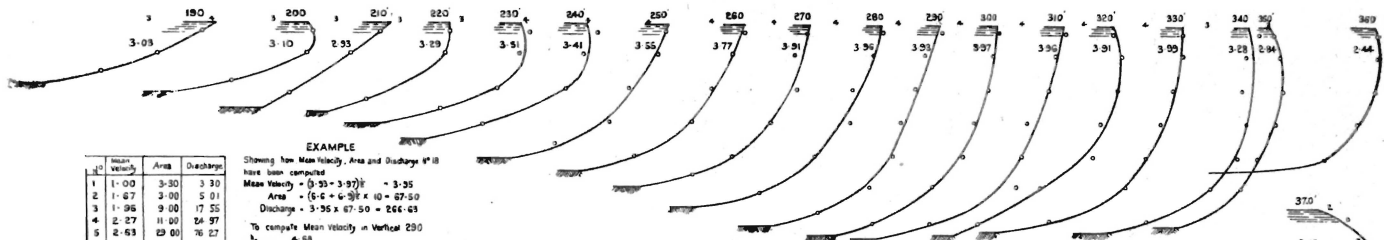
GAUGING OF MURRUMBIDGE RIVER

CUNDACAI

Date of Observation July 11th 1903

Gauge reading 5' 0"

River falling slowly



EXAMPLE

Showing how Mean Velocity, Area and Discharge are computed

Mean Velocity = $(3.93 + 3.97) \div 2 = 3.95$

Area = $(6.6 + 6.32) \times 10 = 67.50$

Discharge = $3.95 \times 67.50 = 266.63$

To compute Mean Velocity in Vertical 290

$h = 6.58$

h_1	h_2	h_3
1	2	4.50
2	3	4.32
3	4	4.10
4	5	3.83
5	6	3.32
6	7	2.00

Formula

$$A = \frac{L}{10} [h_1 + h_2 + h_3 + 6(h_1 + h_2 + h_3) + h_1^2 + h_2^2 + h_3^2]$$

A = Area of figure

L = length of interval between ordinates

h_1, h_2, h_3 = ordinates

$$A = \frac{35.75}{10} [6.58 + 4.32 + 3.83 + 6(6.58 + 4.32 + 3.83) + 6.58^2 + 4.32^2 + 3.83^2]$$

A = 25.91

Mean Velocity of vertical = $\frac{Area}{Length} = \frac{25.91}{8.67} = 3.00$

Similarly the Mean Velocity of Vertical 300 = 3.97

No.	Mean Velocity	Area	Discharge
1	1.00	3.30	3.30
2	1.67	3.00	5.01
3	1.96	9.00	17.55
4	2.27	11.00	24.97
5	2.63	69.00	76.27
6	2.94	17.50	51.45
7	3.00	19.50	57.50
8	3.08	21.50	65.79
9	3.01	25.50	76.74
10	3.11	28.50	88.03
11	3.40	31.00	105.40
12	3.46	35.00	122.85
13	3.49	41.00	142.08
14	3.56	44.00	158.36
15	3.64	49.00	180.92
16	3.93	50.50	202.05
17	3.94	65.00	258.12
18	3.95	67.50	266.63
19	3.97	69.50	275.92
20	3.93	63.50	249.14
21	3.86	68.50	270.57
22	3.95	66.00	260.84
23	3.96	67.00	265.02
24	3.64	62.00	226.68
25	2.90	32.50	84.75
26	1.23	17.65	21.86

1033.459 3516.00

Area of Waterway 1033 sq feet
 Total Discharge 3516 cusecs
 Mean Velocity 3.40 feet per sec

Meter #P 240

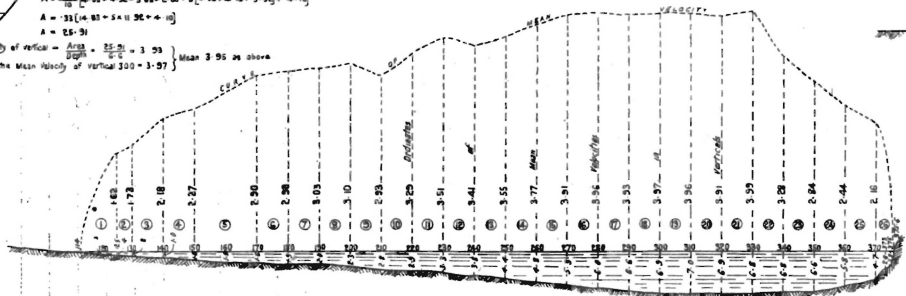
Equation $V = \frac{37.137}{2.5} < 25$ seconds

$V = \frac{37.137}{2.5} = 14.85 > 25$ seconds

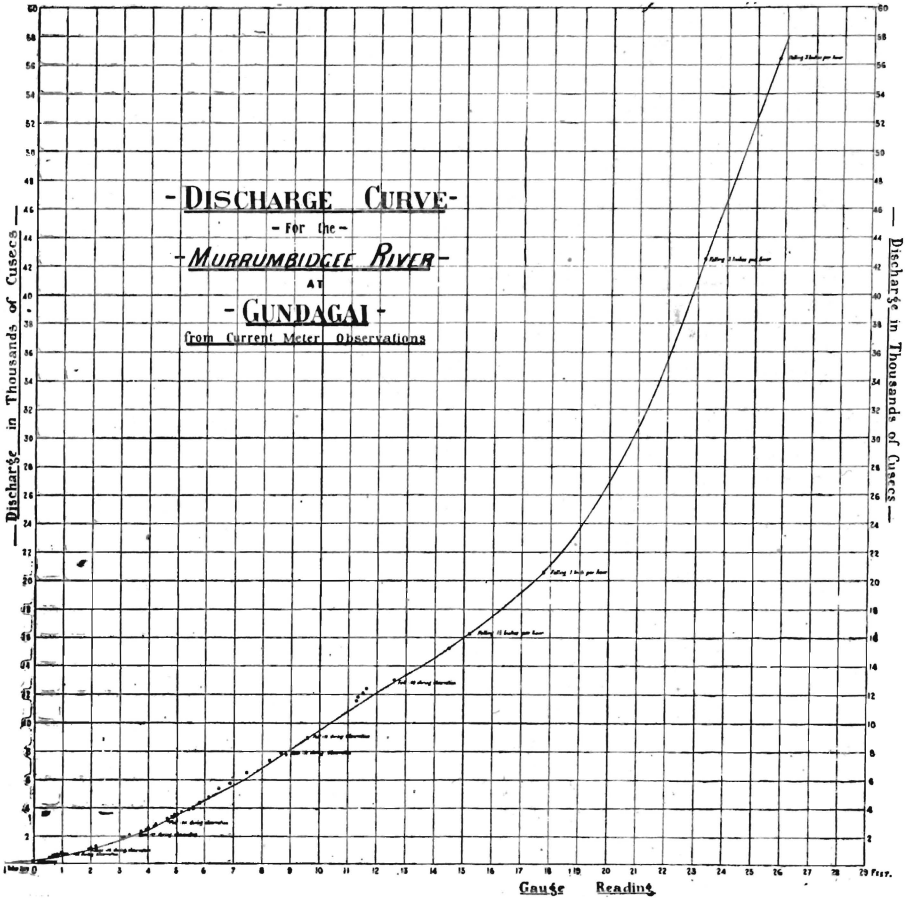
VERTICAL VELOCITY CURVES

Horizontal Scale: 1" per second to 1 inch

Vertical: 2 feet to 1 inch



Scales of River Section: 20 feet to 1 inch horizontal
 10 " " " vertical
 Scale of Mean Velocity ordinates: 1 foot per second to 1 inch



APPENDIX PLATE 4.

APPENDIX B.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1887

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth	Sec. ft. per sq. mile.
January... ..	56,500	710	6,904	424,412	18,402	·948	·822
February	4,760	1,830	2,847	158,085	6,888	·353	·339
March	25,200	2,220	7,471	459,243	20,009	1·025	·889
April	5,990	2,220	3,050	181,444	7,906	·405	·363
May	2,220	1,830	2,189	134,546	5,862	·300	·261
June	12,900	1,830	6,360	378,376	16,486	·845	·757
July	51,400	4,560	12,417	763,316	33,258	1·704	1·478
August	19,200	4,560	9,561	587,762	25,609	1·312	1·138
September	17,450	3,560	9,047	538,246	23,451	1·202	1·077
October	17,880	4,150	7,461	458,628	19,982	1·024	·888
November	16,200	3,560	8,370	497,971	21,697	1·111	·996
December	10,650	2,590	4,600	282,756	12,320	·632	·548
The Year				4,864,785	211,960	10·861	

1888

January	7,950	1,830	3,244	199,450	8,689	·445	·386
February	2,030	1,830	1,840	105,833	4,611	·236	·219
March	1,830	1,830	1,830	112,496	4,901	·251	·218
April	2,030	710	1,284	76,405	3,329	·171	·153
May	1,150	710	866	53,243	2,320	·121	·105
June	5,780	710	1,789	106,447	4,638	·238	·213
July	6,600	1,150	3,132	192,529	8,388	·430	·373
August	5,380	1,360	2,266	139,306	6,070	·311	·270
September	8,630	1,830	4,247	252,664	11,009	·565	·506
October	4,560	1,075	2,663	163,707	7,133	·366	·317
November	710	490	702	41,802	1,821	·094	·084
December	15,700	710	3,106	190,943	8,319	·427	·370
The Year				1,634,805	71,229	3·655	

APPENDIX B—*Continued.*ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1889

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet	Depth	Sec. ft. per sq. mile.
January... ..	9,980	420	2,733	168,039	7,321	inches. ·375	·325
February	3,050	420	892	49,545	2,159	·110	·106
March	420	420	420	25,819	1,125	·058	·050
April	1,830	420	740	44,052	1,919	·098	·088
May	10,990	420	2,770	170,300	7,420	·380	·330
June	21,100	1,150	10,320	613,986	26,752	1·372	1·229
July	8,400	3,560	4,939	303,617	13,229	·678	·588
August	9,980	3,050	4,815	296,022	12,898	·661	·573
September	38,400	4,760	11,908	708,407	30,865	1·582	1·418
October	17,450	4,970	7,788	478,775	20,860	1·069	·927
November	8,400	4,760	5,951	354,045	15,426	·790	·708
December	4,760	2,590	3,513	215,988	9,411	·482	·418
The Year				3,428,597	149,385	7·655	

1890

January	2,590	710	1,266	77,858	3,392	·174	·151
February	3,560	710	1,826	101,401	4,418	·226	·217
March	15,200	1,150	3,991	245,357	10,690	·548	·475
April	4,760	1,150	1,884	112,079	4,883	·250	·224
May	6,600	1,035	2,790	171,529	7,474	·383	·332
June	16,700	6,290	11,068	658,435	28,688	1·471	1·318
July	21,100	7,280	10,840	666,367	29,034	1·487	1·290
August	19,200	5,380	9,797	602,297	26,242	1·344	1·166
September	9,300	5,380	5,470	384,900	16,770	·859	·770
October	12,500	5,990	7,677	471,914	20,562	1·054	·914
November	7,950	5,990	6,380	379,566	16,538	·847	·759
December	5,990	2,590	4,490	275,994	12,026	·616	·534
The Year				4,147,698	180,717	9·259	

APPENDIX B—Continued.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1891

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth	Sec. ft. per sq. mile.
January... ..	94,000	3,560	14,596	897,268	39,094	inches. 2·004	1 738
February	5,070	2,590	3,461	192,172	8,373	·429	·412
March	2,590	1,830	2,440	149,994	6,535	·334	·290
April	3,560	2,590	3,106	184,776	8,051	·413	·370
May	3,560	2,590	3,017	185,450	8,080	·414	·359
June	120,200	2,590	19,942	1,186,369	51,690	2·649	2·374
July	103,800	8,630	26,142	1,607,053	70,020	3·588	3·112
August	58,000	7,280	13,968	842,041	36,688	1·880	1·631
September	15,450	6,600	8,573	510,028	22,222	1·139	1·021
October	7,950	5,380	6,331	389,164	16,956	·869	·754
November	6,600	4,760	5,093	302,983	13,202	·676	·606
December	4,760	2,810	3,382	207,878	9,057	·465	·403
The Year				6,655,176	289,968	14·860	

1892

January	4,150	2,400	2,899	178,192	7,764	·398	·345
February	2,470	1,150	2,000	114,994	5,010	·257	·238
March	1,830	1,150	1,371	84,277	3,672	·188	·163
April	1,150	1,150	1,150	68,413	2,981	·153	·137
May	8,630	1,830	2,049	125,980	5,489	·281	·244
June	7,950	3,560	4,742	282,082	12,290	·629	·564
July	10,650	4,150	5,743	353,073	15,383	·789	·684
August	9,980	3,560	4,941	303,776	13,236	·678	·588
September	61,300	5,990	13,210	785,863	34,240	1·755	1·573
October	56,500	5,380	13,037	801,410	34,918	1·789	1·552
November	15,200	4,760	8,515	506,547	22,070	1·132	1·014
December	5,380	4,560	5,010	307,980	13,419	·687	·596
The Year				3,912,588	170,473	8·736	

APPENDIX B—*Continued.*ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAL. Drainage Area, 8,400 sq. miles.

1893

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth	Sec. ft. per sq. mile.
January... ..	4,460	1,830	3,331	204,784	8,922	inches. ·457	·396
February	1,770	1,540	1,659	92,130	4,014	·205	·197
March	13,400	1,480	3,837	235,878	10,277	·527	·457
April	4,970	2,090	2,186	130,045	5,666	·290	·260
May	18,750	3,050	4,913	302,031	13,159	·674	·585
June	19,200	4,760	9,363	557,005	24,269	1·244	1·115
July	13,950	4,460	8,248	507,013	22,092	1·132	·982
August	8,630	4,150	5,499	338,032	14,728	·755	·655
September	10,650	5,380	7,152	425,482	18,538	·950	·851
October	8,060	3,560	5,268	323,854	14,110	·723	·627
November	11,330	3,050	5,629	334,909	14,592	·748	·670
December	5,990	2,400	2,992	183,943	8,014	·410	·356
The Year				3,635,106	158,382	8·115	

1894

January	10,320	3,560	6,089	374,341	16,310	·836	·725
February	6,940	2,810	4,596	255,192	11,119	·570	·547
March	52,300	2,810	10,300	633,212	27,589	1·415	1·226
April	71,000	4,460	12,207	726,194	31,640	1·622	1·453
May	7,610	5,380	5,876	361,223	15,739	·807	·699
June	45,500	4,760	11,333	674,250	29,377	1·506	1·349
July	40,200	5,990	12,742	783,335	34,130	1·750	1·517
August	20,100	8,630	11,725	720,761	31,404	1·610	1·396
September	49,500	7,105	14,372	855,000	37,253	1·910	1·711
October	11,330	5,990	7,841	482,047	21,003	1·077	·933
November	5,990	3,860	4,896	291,293	12,692	·651	·583
December	3,860	2,730	3,221	198,042	8,629	·442	·383
The Year				6,354,890	276,885	14·196	

APPENDIX B—Continued.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAL. Drainage Area, 8,400 sq. miles.

1895

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth	Sec. ft. per sq. mile.
January... ..	6,290	2,400	3,003	184,587	8,042	·412	·357
February	5,170	2,810	3,693	205,042	8,934	·458	·440
March	2,810	1,770	2,225	136,787	5,960	·305	·265
April	1,700	1,300	1,441	85,765	3,737	·191	·171
May	1,830	1,300	1,323	81,343	3,544	·181	·157
June	14,550	1,300	3,466	206,410	8,993	·461	·413
July	7,280	2,590	3,888	239,052	10,415	·534	·463
August	12,000	1,830	4,349	267,348	11,648	·597	·518
September	11,330	4,460	6,931	412,345	17,966	·921	·825
October	8,180	3,560	5,093	313,076	13,642	·699	·606
November	4,050	2,220	2,740	163,022	7,103	·364	·326
December	2,220	1,700	1,959	120,427	5,247	·269	·233
The Year				2,415,204	105,231	5·392	

1896

January	2,400	1,700	1,851	113,765	4,957	·254	·220
February	2,220	1,300	1,686	96,988	4,226	·217	·201
March	1,830	1,075	1,291	79,350	3,457	·178	·154
April	1,830	1,035	1,290	76,742	3,344	·172	·154
May	6,600	1,300	2,921	179,580	7,824	·401	·348
June	12,500	3,050	5,070	301,594	13,140	·674	·604
July	6,600	2,810	5,076	312,045	13,596	·696	·604
August	4,760	1,830	2,120	130,342	5,679	·290	·252
September	5,990	2,890	3,948	234,866	10,233	·524	·470
October	2,810	1,830	2,070	127,289	5,546	·284	·246
November	1,770	1,300	1,547	92,052	4,011	·205	·184
December	1,300	1,035	1,074	66,034	2,877	·148	·128
The Year				1,810,647	78,890	4·043	

APPENDIX B—Continued.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1897

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth inches.	Sec. ft. per sq. mile.
January... ..	13,950	1,035	4,619	283,956	12,372	·634	·550
February	3,560	1,770	2,437	135,310	5,895	·302	·290
March	1,640	1,640	1,640	100,816	4,393	·225	·195
April	1,640	1,300	1,621	96,453	4,202	·215	·193
May	1,150	710	851	52,296	2,279	·116	·101
June	3,560	710	1,963	116,818	5,090	·261	·234
July	3,290	2,590	2,723	167,425	7,296	·374	·324
August	9,300	1,830	3,661	225,051	9,805	·503	·436
September	9,980	4,760	6,403	380,914	16,596	·850	·762
October	8,630	4,000	5,620	345,518	15,054	·771	·669
November	3,860	1,480	1,946	115,807	5,046	·259	·232
December	1,480	1,150	1,349	82,949	3,614	·186	·161
The Year				2,103,313	91,642	4·696	

1898

January	1,150	1,150	1,150	70,694	3,080	·158	·137
February	13,400	1,075	2,890	160,484	6,992	·358	·344
March	1,480	1,150	1,349	82,909	3,612	·186	·161
April	1,150	1,150	1,150	68,414	2,981	·153	·137
May	2,590	1,150	1,419	87,252	3,802	·195	·169
June	4,760	1,830	2,449	145,732	6,349	·326	·292
July	4,760	2,590	2,741	168,485	7,341	·376	·326
August	7,280	2,810	4,563	280,495	12,221	·626	·543
September	9,980	3,560	5,784	344,090	14,992	·769	·689
October	9,980	3,560	4,054	249,243	10,860	·557	·483
November	8,630	2,590	5,537	329,396	14,352	·735	·659
December	2,590	1,830	2,008	123,442	5,378	·276	·239
The Year				2,110,636	91,961	4·715	

APPENDIX B—Continued.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1899.

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth.	Sec. ft. per sq. mile.
January ..	2,200	1,830	1,881	115,609	5,037	·258	·224
February ..	1,830	1,150	1,667	92,586	4,034	·206	·198
March ..	1,150	710	843	51,806	2,257	·115	·100
April ..	3,560	710	1,883	112,069	4,883	·250	·224
May ..	1,830	1,420	1,509	92,755	4,041	·207	·180
June ..	6,940	1,480	3,865	229,968	10,020	·513	·460
July ..	7,280	3,290	4,242	260,764	11,362	·582	·505
August ..	41,200	3,560	8,956	550,560	23,988	1·229	1·066
September ..	7,280	3,050	5,090	302,824	13,194	·676	·606
October ..	5,990	2,220	3,725	229,017	9,978	·511	·443
November ..	5,990	2,590	3,697	219,974	9,584	·491	·440
December ..	3,050	2,220	2,647	162,766	7,092	·363	·315
The Year ..				2,420,698	105,470	5·401	

1900.

January ..	3,050	1,480	1,968	121,003	5,272	·270	·234
February ..	2,220	385	862	47,870	2,086	·107	·103
March ..	3,290	385	1,274	78,328	3,413	·175	·152
April ..	4,760	1,565	2,686	159,800	6,962	·357	·320
May ..	61,300	2,030	9,008	553,782	24,128	1·236	1·072
June ..	20,100	4,760	8,697	517,424	22,544	1·155	1·035
July ..	67,800	7,280	16,312	1,002,763	43,692	2·239	1·942
August ..	7,280	5,388	6,261	384,900	16,770	·859	·745
September ..	13,400	9,300	10,997	654,252	28,506	1·461	1·309
October ..	9,980	3,860	6,532	401,577	17,497	·897	·778
November ..	4,760	2,220	3,499	208,156	9,069	·465	·417
December ..	2,590	1,480	1,910	117,433	5,117	·262	·227
The Year ..				4,247,288	185,056	9·483	

APPENDIX B—Continued.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1901

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth	Sec. ft. per sq. mile.
January... ..	1,830	1,300	1,492	91,753	3,998	inches. ·205	·178
February	1,480	1,150	1,468	81,521	3,552	·182	·175
March	1,480	710	1,008	61,959	2,699	·138	·120
April	3,560	710	1,281	76,187	3,319	·170	·152
May	1,830	1,150	1,494	91,833	4,001	·205	·178
June	3,050	1,150	1,846	109,848	4,786	·246	·220
July	1,590	1,150	1,390	85,487	3,725	·190	·165
August	12,500	1,360	4,529	278,463	12,133	·621	·539
September	10,650	4,460	6,826	406,079	17,693	·907	·813
October	27,800	2,810	6,475	398,067	17,344	·889	·771
November	16,700	1,700	5,470	325,440	14,179	·726	·651
December	1,700	675	1,042	64,071	2,792	·143	·124
The Year				2,070,703	90,221	4·622	

1902

January	1,200	455	695	42,724	1,862	·095	·083
February	472	200	268	14,898	649	·033	·032
March	890	164	263	16,171	704	·036	·032
April	610	237	295	17,563	765	·039	·035
May	284	256	270	16,602	724	·037	·032
June	2,340	275	712	42,333	1,844	·095	·085
July	4,050	610	1,118	68,723	2,994	·153	·134
August	727	590	638	39,218	1,709	·088	·076
September	1,150	710	937	55,738	2,428	·124	·112
October	1,360	675	901	55,395	2,413	·124	·108
November	780	310	499	29,729	1,295	·066	·060
December	4,760	224	1,034	63,599	2,772	·142	·124
The Year				462,693	20,160	1·035	

APPENDIX B—Continued.

ESTIMATED MONTHLY DISCHARGE OF THE MURRUMBIDGEE RIVER
AT GUNDAGAI. Drainage Area, 8,400 sq. miles.

1903

Month.	Discharges in Cusecs.			Total Discharge.		Run-off.	
	Max.	Min.	Mean	Acre Feet.	Millions of cubic feet.	Depth	Sec. ft. per sq. mile.
January... ..	570	140	300	18,466	805	inches. ·042	·036
February	348	78	141	7,837	341	·018	·017
March	1,075	140	469	28,864	1,258	·065	·056
April	7,610	385	1,279	76,137	3,317	·170	·152
May	2,220	925	1,303	80,113	3,490	·179	·155
June	3,560	1,000	2,492	148,259	6,460	·331	·297
July	12,900	1,770	5,144	316,209	13,777	·706	·612
August	5,380	2,030	3,201	196,813	5,575	·439	·381
September	18,900	1,900	5,986	356,108	15,516	·796	·713
October	6,400	2,660	4,046	248,747	10,838	·556	·482
November	3,660	1,075	2,157	128,330	5,591	·287	·257
December	2,590	745	1,262	77,618	3,382	·173	·150
The Year				1,683,501	73,350	3·762	

1904

January	12,900	1,150	3,199	196,684	8,570	·439	·381
February	1,300	610	949	54,605	2,379	·122	·113
March	1,150	490	725	44,560	1,941	·099	·086
April	780	455	573	34,038	1,483	·076	·068
May	1,480	530	756	46,511	2,076	·104	·090
June	4,460	745	1,557	92,669	4,038	·206	·185
July	9,300	1,770	4,170	256,382	11,171	·572	·496
August	5,270	2,400	3,133	192,609	8,392	·430	·373
September	5,070	2,590	3,418	203,347	8,860	·454	·407
October	5,380	2,400	3,677	226,062	9,850	·505	·438
November	7,280	1,190	3,031	180,334	7,857	·403	·361
December	1,300	610	910	55,948	2,438	·124	·108
The Year				1,583,750	69,005	3·534	