Revd 1869 Depart.
No 2954
Govt. of {1869} Union.

PUBLIC WORKS.

To

THE SUPERINTENDING ENGINEERS,

1ST AND 2ND DIVISIONS,

&c., &c., &c.

Dated August, 31st.

Recd. 1st Sept.; Encl.

G. O., 31st August 1869, No. 2,891.

AUGUST.

Nos. 929-933

Irrigation Circulars.—Passing orders on the Proceedings of the Government of India regarding the submission of Monthly Statements of irrigation operations.

No 23 Communicated to the
3d & Reminder that
the necessary instructions
may be issued to the Collectors

No 23 - 7 Sept. 69

7 Sept 69

Ltr Rs. P W Dep. dated 13 Nov 68
No 3910.

With an order

No 3 of Rev Dept 69

No. 622. Read the following Endorsement of the Assistant Secretary to the Government of India, Nos. 221—23-I:—

Read the following letter form the Officiating Secretary to the Government of India, Public Works Department, (Irrigation,) to the Joint-Secretary to the Government of the North-Western Provinces in the Public Works Department, Irrigation Branch, dated Simla, 24th June 1869, No. 219-I.

With reference to the Monthly Statements of Irrigation operations submitted by the Government of the North-Western Provinces, I am directed to suggest that if it be possible to give approximate separate areas of chief *crops* cultivated, it would much add to the interest of the returns. If the rain-fall average for the month and year for a series of years, say the last ten years for instance, could be ascertained, and the actual fall for the month, at a central point in each Canal Division, and the quantities stated, it would also make the facts more complete.

(Signed) R. STRACHEY, Colonel, R.E.,
Offg.-Secy. to the Govt. of India.

No. 220-I.

Copy forwarded to the Government of the Punjab for information and guidance, with reference to Public Works Department letter, No. 164-I, dated 12th June 1869.

Copies with a transcript of the Statements* submitted by the Government of the North-Western Provinces, forwarded to the Governments of Madras, Bombay, and Bengal, with intimation that the Government of India would be glad if similar returns could be prepared and submitted from those Presidencies.

* See also pages 708, 939 and 1041 of Supplement to the *Gazette of India.*

(Signed) J. W. ALEXANDER, C.E., Asst. Secy.,
for *Offg.-Secy. to the Govt. of India.*

No. 1.

PUBLIC WORKS DEPARTMENT, NORTH-WESTERN PROVINCES.

Irrigation operations of Fusl Khurreef 1869-70 up to 30th April 1869.

Canal Divisions.	Water distributed during April.				Navigation return, Ganges Canal.		Land irrigated, (approximate).		Remarks.
	Depth in canal at regulating gauge.		Gross consumption, cubic feet per second.		Principal items of traffic.		Zillah.	Acres.	
	Full supply.	Actual in April.	Estimated full supply.	Actual average throughout April.	Up.	Down.			
Ganges Canal.									
Northern, ...	8·00	7·70		1,140			Saharunpore, ...	6,228	
Meerut, ...	6·80	6·03		409			Moozuffernuggur,	16,812	
Futtehgurh, ...	6·50	5·15		311			Meerut, ...	37,071	Futtehgurh Branch closed till 8th instant.
Boolundshuhur, ...	5·75	5·00	6,500	370			Boolundshuhur,...	19,876	
Allygurh, ...	6·00	5·49		1,353	2,858 maunds of grain. 264 ,, of cotton. 6,223 ,, of oil seeds.	* 12,055 maunds of cotton. 795 ,, of oil seeds. 1,990 ,, of salt.	Allygurh, ...	22,016	
Etawah, ...	†4·80	†2·50		678			Muttra, ...	2,693	† The Etawah and Cawnpore branches have alternate weeks of high and low water. The figures here given show the mean for the month.
Cawnpore, ...	†6·00	†3·53		616			Agra, ...	366	
							Etah, ...	3,435	
							Mynpoorie, ...	2,122	
							Futtehgurh, ...	3,430	
							Etawah,... ...	2,463	
Eastern Jumna Canal,..	5·16	0·86	1,300	202	...	..	Cawnpore, ...	1,325	Eastern Jumna Canal closed till night of 23rd for annual repairs.
							Dehra Dhoon, ...	3,150	
Doon Canal, ...	...	...	330	115	...	...	Bijnour,... ...	56	
							Terai, ...	573	
							Bareilly, ...	3,180	* Increase of traffic due to the raising of the low arches of bridges in the Cawnpore Division, which had hitherto been a great hindrance to Cotton traffic.
							Humeerpore, ...	14	
							Total, ...	1,24,810	

(Signed) W. JEFFREYS, Captain, R.E.,
Asst. to Chief Engineer, Irrigation Works, N.-W.P.

Canal Divisions.	Water distributed during May.				Navigation Return, Ganges Canal.		Land irrigated, (approximate).		Remarks.
	Depth in canal at regulating gauge.		Gross consumption, cubic feet per second.		Principal items of Traffic.		Zillah.	Acres.	
	Full supply.	Actual throughout May.	Estimated full supply.	Actual average throughout May.	Up.	Down.			
Ganges Canal.					Grains. Mds.	Grains. Mds.			
Northern, ...	9·00	8·56		813	Gram ... 119	Wheat ... 1,090	Saharenpore, ...	10,923	The mean volume which passed the Roorkee gauge during the month was 5,210 cubic feet per second.
Meerut, ...	6·80	6·73		1,207	Oorud ... 782	Bajhur ... 150	Moozuffernuggur,	26,328	
Futtehgurh, ...	6·50	5·74		403	Urhur ... 580	Total ... 1,240	Meerut,... ...	45,096	
Boolundshuhur,	5·75	4·80	5,585	267	Jowar ... 142	Cotton ... 7,518	Boolundshuhur,...	29,811	The volumes passing out at the termini of the Canal were as follows :—
Allygurh, ...	6·00	5·09		1,172	Rice ... 22	Oilseeds ... 500	Allygurh, ...	27,296	Etawah Branch, 43 c. f. p. second.
Etawah, ...	4·80	*2·40		614	Total ... 1,615	Salts ... 7,465	Muthra,... ...	3,710	Cawnpore, 104 ,, ,,
Cawnpore, ...	6·00	*2·83		557	Cotton ... 563	Metals ... 1,519	Agra, ...	624	Total... 147
			Total,...	5,210	Oil seeds 4,016	Building materials ... 64,475	Etah, ...	4,752	
Eastern Jumna Canal,	5·16	5·09	1,300	1,269	Metals ... 3,813	Miscellaneous goods ... 3,367	Mynpooric, ...	9,122	* The Cawnpore and Etawah Branches have alternate weeks of high and low supply. The figures here given show the mean of the month.
Doon Canals, ...	...	...		...	Building materials 1,195	No. Bamboos 488,000	Futtehgurh, ...	6,170	
Rohilkund Canals,	...	...		146	Miscellaneous goods 4,410	Bullies and Tors ... 16,000	Etawah,... ...	9,775	
						Kurrees ... 3,300	Cawnpore, ...	18,216	
						Mds. Firewood ... 34,000	Dehra Doon, ...	4,400	
							Bijnour,... ...	154	
							Terai, ...	1,469	
							Bareilly, ...	7,299	
							Total, ...	205,145	

(Signed) W. JEFFREYS, Captain, R.E.,
Asst. to Chief Engineer, Irrigation Works, N.-W.P.

Proceedings of the Madras Government, Public Works Department,
31st August 1869.

No. 623. ORDER THEREON, 31st August 1869, No. 2,834.

IRRIGATION, No. 29.

THE Government observe that at present there are only three systems of Irrigation, *viz.*, the Godavery, the Kistna, and the Pennair, where returns, of the nature of the tabulated statements transmitted by the Government of India, could be kept, and the Superintending Engineers of the 1st and 2nd Divisions will be requested therefore to make arrangements for preparing such returns monthly during the season of irrigation. The information regarding irrigated areas of land will have to be obtained under the orders of the Collectors, and it will probably be the most convenient arrangement, and prevent delay, if the several Tahsildars be instructed to transmit the statements of cultivation direct to the Range Officers concerned.

(True Extract.)

Major, R.E.,
Acting Joint-Secretary to Government.

To the Superintending Engineers, 1st and 2nd Divisions.
,, Revenue Department.

Exd. E. C. Shunker.