RAINFALL.
The records of the daily rainfall (which were commenced by the late Sir George S. kingston as early as 1839 so far as Adelaide is concerned, and have been systematically continued and greatly extended since 1856 by Mr. C. Todd, Government Meteorologist, &c.) tend to show that the occupation and cultivation of the country has not to any appreciable extent either increased or diminished the average annual rainfall in any given locality. They also show that the fluctuations in the annual depth of rain are not reducible to any law of periodicity. Mr. Todd has established over 340 stations, extending from the northern coast of this island continent to the Southern Ocean, at which the depth of rain is taken and recorded every morning at 9 o'clock for the pre-vious twenty-four hours. These observations show very great differences in the annual depths of rainfall in different localities. As a general rule the rains are the most copauts within the tropies and on the southern districts extending from 100 to 200 miles inland, while in some parts of Central Australia it seldom exceeds four or five inches per annum. Thus at Palmerstone, Southport, &c., the annual average exceeds 63 mehes, while in the arid country east of Lake Eyre it scarcely exceeds 4 inches.

Table 1.

Statement of the annual fall of rain c gistered in

Adelaide from 1830 to 1830, inclusive, expressed in inches and decimals;

¥r.	In.	Yr.	In.	Yr.	In.	Yr.	In.
1859	19-840	1852	27:340	1865	15:506	1878	22:053
1540	24:107	1853	26 995	1865	201108	1579	20:700
1841	17 956	1854	15-346	1867	19.051	1880	22-256
1842	29 318	1856	23 145	1868	19 987	1881	18:192
1:43	17:192	1856	24/921	1869	14.736	1888	15712
1:44	16'578	1857	29/1/19	18.00	22544	中古书基	25:761
1545	18 830	1856	20/250	1571	21 157	4551	18 758
1546	26 885	1850	14-460	1872	4520	1995	1500-7
1:47	27 613	1860	18:705	loid	如中海市	Local	14 + 20
1248	19-725	1861	24 1035	1874	17:173	1887	25701
1849	25:444	1862	21 251	1875	251984	1588	14:542
1>50	19:274	1863	27 675	1:76	13:434	1889	137872
1-51	30.633	1864	19 752	1877	24-949	1890	25 779

It does not appear possible to deduce from this table any support of the theories often advanced of the connection between celestial phenomena and the fall of rain. Indeed, if any such connection does exist at all, it must affect the meteorological condition of the earth as a whole. And though scientists profess to have traced a connection between the elevenyears period of solar spots and terrestrial magnetism and electricity, which future observations may or may not confirm, possibly another century of recorded observations made in both hemispheres will scarcely suffice to establish the theory of the influence of solar spots in augmenting or diminishing the rainfall upon the earth's surface, assuming such in-fluence to exist. So with regard to the local effects upon the annual rainfall, at one time very generally believed to result from the destruction of the primitive forests. The early settlers will remember that on their arrival the site of Adelaide and the surrounding country was heavily tumbered, especially to the westward, which was known as the "Black

was neavily timbered, especially to the westward, which was known as the "Black Forest;" yet the removal of hundreds of thousands of tons of timber since then does not appear to have had any appreciable effect in permanently diminishing the average fall of rain. This will appear evident from an inspection of the following:

TABLE II. Showing the aggregate depth of rain registered at Adelaide from 1820 to 1880 inclusive, with the annual average, calculated to the end of each year:-

Year.	Total.	Av rg e	Year.	Total.	Av'rg'e
1829	19:840	19:840	1865	580 633	21:505
1840	43 947	21 973	1866	609 741	21-455
1841	61-963	20 634	1867	619.792	21 372
1842	82-221	20-555	1568	639 779	21 - 126
1845	99-413	19 883	1869	654 515	21-113
1844	116-291	19 382	1870	678 055	21 189
1845	135-121	19 303	1871	701-212	21 210
1846	162 000	20-251	1872	721 832	21-250
1847	159 619	21 669	1873	714 341	21 237
1845	209 354	20'905	1874	761 514	21.153
1549	234 796	21 345	1875	790-478	21 364
1850	254 072	21-173	1876	803-919	21 156
1851	284-705	21 900	1877	828 861	21-253
1852	312 045	22-280	1978	850-944	21-274
1803	339 040	22 603	1879	871 658	21.990
1854	354 386	22.149	1880	893-879	21 283
1955	377-531	22 206	1881	912-071	21-211
1856	402-455	22-358	1882	927 813	21 1937
1857	422-601	92 242	1883	954-574	21-213
1858	442'851	22-143	1884	973-312	21 150
1859	457-311	21 777	1885	989-198	21 047
1860	475 814	21 628	1586	1,003-619	20 939
1861	499-849	21-733	1887	1,029 32	21 007
1862	521 700	21.737	1888	1,043,863	20'877
1863		21-815	1889	1,074-736	21-073
1:64		21-736	1890	1,100-513	21 164

We may here state that the greatest depth of rain registered in Adelaide in one month was 7.8 inches, in June, 1847, and the greatest in one day 3.5 inches, on March 5, 1878. The following table illustrates the important

bearing which the rainfall has upon the agricultural interest :-

TABLE III. Showing the depth of rain registered at Adelaide during each of the nine most and the nine least prolific years:—

250	Most prolific.			1	Least prolific.		
Years.	Rainf'll	Yiei per ac	_	Years.	Rainfil	Yi per	eld acre
	Inches	bus.	b.		Inches.	bus	lb.
1863	23 675	14	0	1867	19:051	4	40
1866	20-108	14	20	1869	14:736	5	45
1870	23:540	11	30	1871	23 157	5	44
1872	22.620	11	30	1876	13-434	5	24
1874	17-173	11	45	1880	22-226	4	58
1875	25 964	11	57	1881	18 192		34
1879	20.709	9	47	1882	15 742		18
1887	25 701	10	0	1585	15'887		10
1889	30 872		30	1888	14-542	3	48
Av'r'gs.	23:707	11	35	AVY'EL	17-441		42

This table illustrates the general rule that copious rains tend to produce an abundant harvest, and vice verid. We think we are justified in saying that there has been no instance of a defective fall of rain during the growing months that was followed by a good average yield of wheat. The year 1874 looks average yield of wheat. The year 1874 looks at first sight as an exceptional case, but it is not so, for of the 17 173 inches recorded that year 15 177 inches fell between April and October. On the other hand 1857 was the memorable red-rust year, and in 1871 the rainfall from April to October was but 14 836 inches, thus below that of 1874.

October. On the other hand 1857 was the memorable red-rust year, and in 1871 the rainfall from April to October was but 14-836 inches, thus below that of 1874.

The following table shows the fall of rain in Adelaide during 1850 and the number of wet days, with a comparative statement of the rainfall during the corresponding period of previous years, expressed in inches and decimals:—

Months.	1890.	Wet days.	Wett'st year, 1889.	Priest year, 1876.	Averg 1839 to1830	
January	0 623	10	2-964	0.193	0.738	
and the second second	1 928	3	0.231	0.440	0.682	
March	0 576	3	0.813	0.503	0.985	
April	1 1 1 1 1 1 1 1	3 7	5'854	1.819	1 822	
	1 643	11	41086	1:022	2 880	
The same of the sa	4-221	15	4.752	1-279	2-982	
	6-363	90	1-211	2:307	2.702	
	3.734	90	3-589	1 608	2-534	
Cartamber	1.752	13	1:504	1.116	1-971	
	2-544		3.608	1:400	1.783	
November .	2.196	20	2.107	11056	1:150	
The section	0.199	•	0.333	0.492	0-931	
Totals .	25-779	157	20-571	13-434	21-164	

The greatest depth registered on any one day last month was 0000 on the 23rd. The total rainfall last year as compared with that of previous years was 5000 below that of 1889, 12345 above that of the driest year, and 4 615 above the general average.

A law student once defined libel as "something a man says and afterwards wishes to goodness he hadn't."

A young lady at Davenport, Iowa, is gradually becoming copper-coloured. The change began eighteen months ago on the tips of her fingers and soles of her feet. She is in good health, and the doctors are mystified by the occurrence.