TIDY

RAINFALL DATA IN WIDE FORMAT

Bureau of Meteorology station number	1-1-67	1/2/1967	1-3-67	1-4-67	1-5-67
9151	0	0.3	1	0	5
9152	0	2.5	2	0	0.7
9153	0	3.4	3	0	0
9154	0	0	4	1.2	0
9155	0	0	5	0	0
9156	0	NA	6	0	0
9157	0	21	7	0	0
9158	1967	1	8		

WEATHER STATION DATA IN LONG FORMAT

Bureau o	of Meteorology product IDCJMC0014. Lan stations measuring total monthly					Pr	roduc	ed: 06	Jan	2020
	an stations measuring total monthly	rainfall								****
Site	Nane	Lat	Lon	Start		End		Years	%	AWS
1000	KARUNJIE OOMBULGURRI PAGO MISSION KUNMUNYA WYNDHAM PORT WYNDHAM AERO TROUGHTON ISLAND MOUNT ELIZABETH OLD SITE KURI BAY THEDA PANTA DOWNS MITCHELL PLATEAU WYNDHAM EMMA GORGE CARSON RIVER STATION NULLA NULLA MOUNT ELIZABETH KALUMBURU TRUSCOTT KALUMBURU MISSION WYNDHAM SIX MILE HOTEL EL QUESTRO ELLENBRAE DOONGAN DRYSDALE RIVER STATION DIGGERS REST HOME VALLEY WYNDHAM NORTH KIMBERLEY COASTAL CAMP FARAWAY BAY	-16.2919	127,1956	Oct 19	940 A	Aug 1	1981	24.9	61	N
1001	OOMBUL GURRT	-15.1806	127.8456	Jan 19	914	Jan 2	2011	56.4	58	
1003	PAGO MISSION	-14.1331	126.7158	Nov 19	908 A	Apr 1	1940	31.5	100	-
1004	KUNMUNYA	-15.4167	124.7167	Jan 19	915	Dec 1	1948	34.0	100	
1005	WYNDHAM PORT	-15.4644	128.1000	Nov 18	886 M	Mar 1	1995	101.2	93	
1006	WYNDHAM AERO	-15.5100	128.1503	Feb 19	951 0	Dec 2	2019	35.7	52	
1007	TROUGHTON ISLAND	-13.7542	126.1485	Sep 19	956 D	Dec 2	2019	34.3	54	Y
1008	MOUNT ELIZABETH OLD SITE	-16.3017	126.1825	Sep 19	959 N	Nov 1	1977	18.1	99	N
1009	KURI BAY	-15.4875	124.5222	Aug 19	961 M	Mar 2	2012	45.8	90	N
1010	THEDA	-14.7885	126.4963	Oct 19	965 0	Dec 2	2019	52.3	96	N
1011	PANTA DOWNS	-16.0497	124.9500	Dec 19	966 J	Jan 1	1969	1.8	81	. N
1012	MITCHELL PLATEAU	-14.7925	125.8258	Jan 19	968 0	Oct 1	1986	18.7	99	
1013	WYNDHAM	-15.4869	128.1236	Apr 19	968 D	Dec 2	2019	51.8	100	
1014	EMMA GORGE	-15.9083	128.1286	Jan 19	998 F	Feb 2	2019	16.9	80	
1016	CARSON RIVER STATION	-14.4861	126.7664	Dec 19	970 M	Mar 1	1997	15.7	59	
1017	NULLA NULLA	-15.5000	127.8333	Apr 19	923 9	Sep 1	1926	3.4	97	
1018	MOUNT ELIZABETH	-16.4181	126.1025	Feb 19	973 D	Dec 2	2019	45.9	98	
1019	KALUMBURU	-14.2964	126.6453	Sep 19	998 0	Dec 2	2019	21.3	100	
1020	TRUSCOTT	-14.0900	126.3867	May 20	004 D	Dec 2	2019	15.6	99	
1021	KALUMBURU MISSION	-14.2961	126.6431	Sep 19	941 M	Mar 2	2005	63.5	100	
1022	WYNDHAM SIX MILE HOTEL	-15.4997	128.1997	Jan 19	900 0	Dec 1	1917	8.7	48	
1023	EL QUESTRO	-16.0086	127.9806	Dec 19	967	Dec 2	2019	34.2	66	
1024	ELLENBRAE	-15.9572	127.0628	Jan 19	987	Dec 2	2019	27.4	83	
1025	DOONGAN	-15.3797	126.3114	Jan 19	988 0	Dec 2	2019	31.8	99	
1026	DRYSDALE RIVER STATION	-15.7031	126.3781	Jan 19	988 D	Dec 2	2019	31.5	98	
1027	DIGGERS REST	-15.6394	128.0803	Jan 19	971 [Dec 2	2019	24.3	49	
1028	HOME VALLEY	-15.7231	127.8292	Aug 19	991 M	Mar 2	2019	16.3	59	
1029	WYNDHAM NORTH	-15.4467	128.1075	Sep 19	989 F	Feb 1	1995	4.5	82	N
1030	KIMBERLEY COASTAL CAMP	-14.5786	125.9133	Nov 19	.995 D	Dec 2	2013	9.3	51	
1031	FARAWAY BAY	-13.9600	127.1964	Nov 19	996 D	Dec 2	2019	22.3	96	N

TIDYING DATA - WIDE TO LONG

table4a country 1999 2000 cases country 0.7K 0.7K 2K 80K 37K 37K 1999 212K 213K 1999 212K 2K 2000 2000 80K 2000 213K key value

TIDY RAINFALL DATA

station_code	city_name	year	month	day	rainfall	period	quality	lat	long	station_name
9151	Perth	2019	1	15	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	16	0	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	17	0	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	18	0	NA	N	-31.96	115.79	Sublaco Wastewater Treatment Plant
9151	Perth	2019	1	19	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	20	0	NA	N	-31.96	115.79	Sublaco Wastewater Treatment Plant
9151	Perth	2019	1	21	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	22	0	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	23	0	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	24	D	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	25	4	1	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	26	D	NA	N	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	27	0	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	28	D	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	29	0	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	30	0	NA	N	-31.95	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	1	31	0	NA	N	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	- 1	0	NA	Υ	-31.96	115.79	Sublaco Wastewater Treatment Plant
9151	Perth	2019	2	2	0	NA	Υ	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	3	0	NA	Υ	-31.96	115.79	Sublaco Wastewater Treatment Plant
9151	Perth	2019	2	4	0	NA	Υ	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	5	0	NA	Υ	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	6	0	NA	Υ	-31.98	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	7	0.2	1	Υ	-31.96	115.79	Subiaco Wastewater Treatment Plant
9151	Perth	2019	2	8	0	NA	Υ	-31.98	115.79	Subiaco Wastewater Treatment Plant
0454	Dodin	2012	0			NIA	v	25.02	115 70	Cultings Masternates Transmost Diseat

```
rain_tidy (- read_csv("rain_raw.csv") %>%
  janitor (clean_names() %>%
  gather (-bureau, key = year, value = rainfall)
```