



AUSTRALIAN ATOMIC ENERGY COMMISSION
RESEARCH ESTABLISHMENT
LUCAS HEIGHTS

AAEC TRITIUM LIST NO. 1
1970 – 1974

by

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B. W. SEATONBERRY
L. W. SMITH
R. C. STOKES

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ABSTRACT

Details are given of the concentration of the environmental isotope tritium in monthly samples of precipitation taken at 16 stations, situated throughout Australia, during the period 1970-1974.

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The following descriptors have been selected from the INIS Thesaurus to describe the subject content of this report for information retrieval purposes. For further details please refer to IAEA-INIS-12 (INIS: Manual for Indexing) and IAEA-INIS-13 (INIS: Thesaurus) published in Vienna by the International Atomic Energy Agency.

ATMOSPHERIC PRECIPITATIONS; RADIOACTIVITY; RADIATION MONITORING
SAMPLING; TRITIUM

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1. INTRODUCTION

Since 1970, monthly precipitation samples have been collected for the Australian Atomic Energy Commission from sixteen stations in Australia. Precipitation survey stations are shown in Figure 1.



FIGURE 1

2. STATION DATA

Basic information, including latitude, longitude, and altitude are given for each location for which the tritium activity is reported.

3. SAMPLE ANALYSIS

Samples are composites from the total precipitation at a station during one calendar month and were assayed using methods reported by Calf, Seatonberry & Smith [1975]. The tritium concentration, given in tritium units (T.U.), has been corrected for decay to the last day of the sampling month. One T.U. is defined as one atom of tritium per 10^{18} atoms of hydrogen and is equivalent to 7.2 disintegrations

per minute or 3.24 picocuries per litre of water. All results have an estimated standard deviation of 8.5% or 0.4 T.U., whichever is the larger.

4. RESULTS

Yearly weighted means for tritium, weighted by the total amount of precipitation have been calculated where all values are available :

$$\text{Weighted mean} = \frac{\Sigma(\text{monthly precipitation} \times \text{monthly tritium concentration})}{\Sigma(\text{monthly precipitation})}$$

5. ACKNOWLEDGEMENTS

We wish to acknowledge the Science Department of Bureau of Meteorology and the Water Conservation and Irrigation Commission who collected the samples and relayed the relevant monthly precipitation values.

6. REFERENCES

Calf, G.E., Seatonberry, B.W. & Smith, L.W. [1975] - The Measurement of Natural Levels of Tritium in Water. AAEC/E373.

TABLE 1

ALICE SPRINGS

ALICE SPRINGS

Latitude: 23 80S

Longitude: 133 88E

Altitude: 545.2 m

Year	Month	Precipitation	Type	T.U.
1970	01	0	rain	
	02	14		22.3
	03	9		46.9
	04	51		16.2
	05	11		16.8
	06	0		
	07	0		
	08	0		
	09	12		79.5
	10	4		
	11	18		59.9
	12	56		30.1
Sum		175		
Weighted Mean				
1971	01	1	rain	
	02	0		
	03	14		22.2
	04	14		13.7
	05	0		
	06	12		16.1
	07	7		42.9
	08	12		
	09	4		
	10	0		
	11	39		24.2
	12	20		
Sum		123		
Weighted Mean				

ALICE SPRINGS

Latitude: 28 80S

Longitude: 133 88E

Altitude: 545.2 m

Year	Month	Precipitation	Type	T.U.
1972	01	3	rain	11.9
	02	1		
	03	226		
	04	0		16.2
	05	0		
	06	0		
	07	0		
	08	10		
	09	6		
	10	0		33.8
	11	23		
	12	2		
Sum		271		
Weighted Mean				
1973	01	53	rain	22.4
	02	9		
	03	1		
	04	13		13.8
	05	10		11.0
	06	101		12.8
	07	22		18.4
	08	59		15.5
	09	14		35.4
	10	20		16.7
	11	92		19.0
	12	54		9.2
Sum		448		
Weighted Mean				

ALICE SPRINGS

Latitude: 23 80S

Longitude: 133 88E

Altitude: 545.2 m

Year	Month	Precipitation	Type	T.U.
1974	01	241	rain	8.3
	02	146		11.0
	03	63		12.1
	04	92		8.9
	05	24		
	06	0		
	07	0		
	08	31		
	09	54		25.6
	10	73		23.8
	11	11		29.1
	12	48		19.9
Sum		783		
Weighted Mean				

TABLE 2

BRISBANE

BRISBANE

Latitude: 27 43S

Longitude: 153 08E

Altitude: 2.1 m

Year	Month	Precipitation	Type	T.U.
1972	01	222	rain	24.6
	02	428		6.8
	03	220		6.8
	04	160		3.7
	05	114		6.5
	06	35		11.0
	07	3		
	08	16		31.4
	09	1		14.0
	10	0		
	11	166		15.6
	12	37		13.1
Sum		1402		
Weighted Mean				
1973	01	92	rain	10.3
	02	312		5.3
	03	31		10.9
	04	27		6.1
	05	37		5.9
	06	15		11.4
	07	399		13.8
	08	43		16.7
	09	25		15.4
	10	257		7.9
	11	74		12.4
	12	138		22.6
Sum		1450		
Weighted Mean				11.2

BRISBANE

Latitude: 27 43S

Longitude: 153 08E

Altitude: 2.1 m

Year	Month	Precipitation	Type	T.U.
1970	01	134	rain	
	02	144		21.2
	03	198		35.7
	04	43		9.1
	05	10		32.3
	06	11		19.1
	07	15		11.5
	08	8		21.1
	09	36		20.6
	10	179		33.6
	11	183		22.3
	12	437		12.4
Sum		1398		
Weighted Mean				
1971	01	424	rain	11.3
	02	346		9.2
	03	85		9.4
	04	22		13.3
	05	29		18.0
	06	1		14.6
	07	34		9.8
	08	51		20.3
	09	32		44.6
	10	117		28.0
	11	166		16.2
	12	120		11.4
Sum		1427		
Weighted Mean				13.8

BRISBANE

Latitude: 27 43S

Longitude: 153 08E

Altitude: 2.1 m

Year	Month	Precipitation	Type	T.U.
1974	01	804	rain	3.4
	02	129		6.8
	03	414		4.1
	04	176		5.1
	05	108		5.3
	06	116		6.6
	07	24		8.0
	08	60		16.8
	09	64		35.4
	10	74		20.4
	11	122		16.2
	12	80		12.8
Sum		2171		
Weighted Mean				7.1

TABLE 3

BUNDABERG

BUNDABERG

Latitude: 24 52S

Longitude: 152 21E

Altitude: 13.7 m

Year	Month	Precipitation	Type	T.U.
1974	01	786	rain	4.2
	02	48		3.9
	03	35		5.2
	04	59		3.8
	05	21		4.6
	06	2		
	07	7		
	08	61		10.6
	09	99		21.8
	10	117		15.1
	11	221		10.1
	12	22		7.6
Sum		1478		
Weighted Mean				

BUNDABERG

Latitude: 24 52S

Longitude: 152 21E

Altitude: 13.7 m

Year	Month	Precipitation	Type	T.U.
1972	01	137	rain	12.4
	02	343		6.8
	03	61		10.0
	04	266		3.4
	05	72		5.4
	06	60		6.2
	07	22		8.0
	08	9		18.7
	09	1		
	10	88		15.5
	11	223		10.3
	12	4		6.1
Sum		1286		
Weighted Mean				
1973	01	408	rain	8.4
	02	255		3.9
	03	87		10.0
	04	24		6.1
	05	10		5.4
	06	66		8.7
	07	376		6.9
	08	22		14.2
	09	65		9.4
	10	40		5.2
	11	138		6.3
	12	392		12.0
Sum		1883		
Weighted Mean				8.2

BUNDABERG

Latitude: 24 52S

Longitude: 152 21E

Altitude: 13.7 m

Year	Month	Precipitation	Type	T.U.
1970	01	279	rain	11.1
	02	183		16.7
	03	66		18.6
	04	43		9.3
	05	11		21.3
	06	25		10.2
	07	7		
	08	18		14.3
	09	42		14.2
	10	71		13.9
	11	191		17.9
	12	298		10.6
Sum		1234		
Weighted Mean				
1971	01	503		13.1
	02	675		6.9
	03	58		4.6
	04	36		7.3
	05	15		10.5
	06	42		12.5
	07	20		11.8
	08	49		12.8
	09	36		25.5
	10	94		19.2
	11	35		29.2
	12	209		11.3
Sum		1772		
Weighted Mean				11.0

TABLE 4

CAMPBELLTOWN

CAMPBELLTOWN

Latitude: 34 05S

Longitude: 150 49E

Altitude: 64.9 m

Year	Month	Precipitation	Type	T.U.
1970	01	73	rain	32.7
	02	26		21.9
	03	83		30.2
	04	30		13.8
	05	22		23.5
	06	16		31.9
	07	0		
	08	20		53.6
	09	90		48.1
	10	33		44.6
	11	90		53.0
	12	186		33.7
Sum		669		
Weighted Mean				37.1
1971	01	60	rain	24.6
	02	150		13.4
	03	83		16.5
	04	40		8.2
	05	28		12.9
	06	6		18.3
	07	11		47.4
	08	49		34.8
	09	28		51.4
	10	4		
	11	89		56.8
	12	138		29.5
Sum		686		
Weighted Mean				

CAMPBELLTOWN

Latitude: 34 05S

Longitude: 150 49E

Altitude: 64.9 m

Year	Month	Precipitation	Type	T.U.
1972	01	200	rain	
	02	48		21.2
	03	115		7.3
	04	79		20.5
	05	25		9.0
	06	59		11.7
	07	2		
	08	34		27.1
	09	20		21.0
	10	186		38.9
	11	63		25.9
	12	35		16.5
Sum		866		
Weighted Mean				
1973	01	116	rain	17.0
	02	225		9.6
	03	42		11.1
	04	39		11.3
	05	27		
	06	35		15.0
	07	63		12.1
	08	42		14.6
	09	23		19.3
	10	75		14.4
	11	98		19.6
	12	56		12.6
Sum		841		
Weighted Mean				

CAMPBELLTOWN

Latitude: 34 05S

Longitude: 150 49E

Altitude: 64.9 m

Year	Month	Precipitation	Type	T.U.
1974	01	148	rain	9.4
	02	76		7.2
	03	186		7.0
	04	136		5.4
	05	199		5.6
	06	119		7.5
	07	7		16.4
	08	136		11.9
	09	15		31.5
	10	88		33.0
	11	71		21.2
	12	0		
Sum		1181		
Weighted Mean				10.7

TABLE 5

CHARLEVILLE

CHARLEVILLE

Latitude: 26 25S

Longitude: 146 17E

Altitude: 303.8 m

Year	Month	Precipitation	Type	T.U.
1970	01	48	rain	32.3
	02	28		20.0
	03	71		20.7
	04	19		8.4
	05	0		
	06	1		36.3
	07	0		
	08	6		66.1
	09	105		38.3
	10	11		33.8
	11	18		44.5
	12	51		39.6
Sum		358		
Weighted Mean				31.8
1971	01	67	rain	50.6
	02	73		22.5
	03	68		13.0
	04	11		11.3
	05	2		22.1
	06	2		9.2
	07	33		19.0
	08	41		
	09	39		37.2
	10	19		35.5
	11	48		32.5
	12	195		10.4
Sum		598		
Weighted Mean				

CHARLEVILLE

Latitude: 26 25S Longitude: 146 17E

Altitude: 303.8 m

Year	Month	Precipitation	Type	T.U.
1972	01	17	rain	37.8
	02	9		18.7
	03	15		
	04	1		
	05	65		8.6
	06	0		
	07	0		
	08	8		31.5
	09	15		26.3
	10	1		
	11	95		30.4
	12	24		20.0
Sum		250		
Weighted Mean				
1973	01	31	rain	18.5
	02	295		7.2
	03	12		12.4
	04	50		6.0
	05	1		
	06	4		20.6
	07	80		14.0
	08	39		21.4
	09	39		15.2
	10	No record		12.1
	11	138		13.8
	12	58		10.2
Sum		747		
Weighted Mean				

CHARLEVILLE

Latitude: 26 25S

Longitude: 146 17E

Altitude: 303.8 m

Year	Month	Precipitation	Type	T.U.
1974	01	210	rain	5.7
	02	13		5.6
	03	19		11.1
	04	49		8.3
	05	7		8.3
	06	18		6.8
	07	0		
	08	53		21.1
	09	18		23.4
	10	53		24.1
	11	30		21.8
	12	17		18.8
Sum		487		
Weighted Mean				12.0

TABLE 6

CLAREDALE

CLAREDALE

Latitude: 19 36S

Longitude: 147 25E

Altitude: 9.7 m

Year	Month	Precipitation*	Type	T.U.
1970	01	187	rain	23.5
	02	253		12.3
	03	229		10.0
	04	9		10.7
	05	1		53.2
	06	3		36.3
	07	0		
	08	59		36.9
	09	1		27.2
	10	85		5.5
	11	31		29.6
	12	165		10.2
Sum		1023		
Weighted Mean				15.0
1971	01	78	rain	22.1
	02	324		14.1
	03	296		7.5
	04	39		7.5
	05	41		10.0
	06	43		
	07	18		9.1
	08	79		6.9
	09	0		
	10	38		11.3
	11	29		11.2
	12	397		5.4
Sum		1382		
Weighted Mean				

* The precipitation figures are for Ayr, which is situated 28 km from Claredale: No precipitation figures for Claredale are available.

CLAREDALE

Latitude: 19 36S

Longitude: 147 25E

Altitude: 9.7 m

Year	Month	Precipitation	Type	T.U.
1972	01	552	rain	6.6
	02	280		6.4
	03	158		8.6
	04	1		6.8
	05	6		9.9
	06	11		8.0
	07	1		5.2
	08	No rain at Ayr.		7.9
	09	6		17.1
	10	0		
	11	17		8.3
	12	11		5.9
Sum		1043		
Weighted Mean				
1973	01	380	rain	5.9
	02	351		5.1
	03	191		3.9
	04	55		5.0
	05	10		13.8
	06	2		3.7
	07	49		8.7
	08	15		11.3
	09	60		5.7
	10	38		6.8
	11	215		6.7
	12	373		7.7
Sum		1739		
Weighted Mean				6.2

CLAREDALE

Latitude: 19 36S

Longitude: 147 25E

Altitude: 9.7 m

Year	Month	Precipitation	Type	T.U.
1974	01	954	rain	5.2
	02	326		4.1
	03	227		3.7
	04	32		4.5
	05	60		4.6
	06	6		
	07	0		
	08	14		9.8
	09	0		15.7
	10	3		
	11	56		
	12	77		4.7
Sum		1755		
Weighted Mean				

TABLE 7

DARWIN

DARWIN

Latitude: 12 26S

Longitude: 130 52E

Altitude: 28.6 m

Year	Month	Precipitation	Type	T.U.
1970	01	220	rain	15.7
	02	312		14.0
	03	124		20.0
	04	33		16.1
	05	19		10.8
	06	0		
	07	0		
	08	0		
	09	17		9.8
	10	93		10.4
	11	130		14.3
	12	198		11.6
Sum		1146		
Weighted Mean				14.2
1971	01	389	rain	15.7
	02	298		12.3
	03	472		10.7
	04	187		6.8
	05	29		7.6
	06	0		
	07	0		
	08	0		
	09	21		9.6
	10	80		10.6
	11	197		11.0
	12	306		8.1
Sum		1979		
Weighted Mean				11.1

DARWIN

Latitude: 12 26S

Longitude: 130 52E

Altitude: 28.6 m

Year	Month	Precipitation	Type	T.U.
1972	01	206	rain	17.2
	02	426		8.4
	03	362		9.2
	04	73		9.0
	05	26		7.1
	06	0		
	07	0		
	08	3		
	09	27		7.0
	10	55		8.0
	11	127		10.8
	12	162		21.0
Sum		1467		
Weighted Mean				
1973	01	536	rain	6.9
	02	138		8.0
	03	467		7.3
	04	27		5.0
	05	15		7.9
	06	41		5.7
	07	0		
	08	0		
	09	0		
	10	43		5.0
	11	126		10.5
	12	268		7.9
Sum		1661		
Weighted Mean				7.4

DARWIN

Latitude: 12 26S

Longitude: 130 52E

Altitude: 28.6 m

Year	Month	Precipitation	Type	T.U.
1974	01	747	rain	5.7
	02	370		5.9
	03	497		5.2
	04	57		6.6
	05	0		
	06	0		
	07	0		
	08	35		7.6
	09	26		7.2
	10	119		8.1
	11	128		12.1
	12	664		
Sum		1979		
Weighted Mean				

TABLE 8

HOBART

HOBART

Latitude: 42 53S

Longitude: 147 20E

Altitude: 55.2 m

Year	Month	Precipitation	Type	T.U.
1970	01	83	rain	31.8
	02	36		26.7
	03	51		19.3
	04	29		19.8
	05	32		15.8
	06	45		21.6
	07	51		24.2
	08	106		26.0
	09	23		48.8
	10	105		31.5
	11	70		45.2
	12	150		33.1
Sum		781		
Weighted Mean				29.7
1971	01	103	rain	32.3
	02	103		44.6
	03	50		27.6
	04	36		23.0
	05	80		15.1
	06	34		22.9
	07	15		14.7
	08	58		26.5
	09	74		47.8
	10	69		33.8
	11	78		35.4
	12	52		31.2
Sum		752		
Weighted Mean				32.1

HOBART

Latitude: 42 53S

Longitude: 147 20E

Altitude: 55.2 m

Year	Month	Precipitation	Type	T.U.
1972	01	57	rain	29.1
	02	45		42.7
	03	11		14.8
	04	61		17.0
	05	8		31.9
	06	16		12.9
	07	87		17.3
	08	38		25.4
	09	29		41.5
	10	22		34.0
	11	26		23.4
	12	51		18.7
Sum		451		
Weighted Mean				24.9
1973	01	35	rain	28.6
	02	52		15.8
	03	29		23.1
	04	63		15.6
	05	99		8.4
	06	55		10.9
	07	12		11.4
	08	19		16.1
	09	36		19.2
	10	95		25.2
	11	62		9.8
	12	47		18.1
Sum		604		
Weighted Mean				16.4

HOBART

Latitude: 42 53S

Longitude: 147 20E

Altitude: 55.2 m

Year	Month	Precipitation	Type	T.U.
1974	01	9	rain	18.1
	02	44		15.5
	03	43		9.5
	04	101		7.0
	05	24		9.6
	06	85		5.8
	07	157		7.1
	08	25		19.1
	09	377		26.8
	10	34		18.0
	11	51		16.2
	12	64		16.7
Sum		1014		
Weighted Mean				16.7

TABLE 9

LONGREACH

LONGREACH

Latitude: 23 26S

Longitude: 144 16E

Altitude: 190.5 m

Year	Month	Precipitation	Type	T.U.
1970	01	8	rain	36.6
	02	24		
	03	53		20.3
	04	10		
	05	0		
	06	0		
	07	0		
	08	0		
	09	18		34.6
	10	56		21.3
	11	25		33.8
	12	91		20.4
Sum		285		
Weighted Mean				
1971	01	34	rain	41.1
	02	45		22.3
	03	47		12.7
	04	51		8.1
	05	1		
	06	2		
	07	27		17.4
	08	49		28.0
	09	23		21.0
	10	33		19.8
	11	40		17.9
	12	117		
Sum		469		
Weighted Mean				

LONGREACH

Latitude: 23 26S

Longitude: 144 16E

Altitude: 190.5 m

Year	Month	Precipitation	Type	T.U.
1972	01	58	rain	28.6
	02	7		33.5
	03	103		7.9
	04	0		
	05	33		8.2
	06	0		
	07	0		
	08	2		28.2
	09	0		
	10	2		
	11	34		18.1
	12	66		28.3
Sum		305		
Weighted Mean				
1973	01	40	rain	20.2
	02	163		7.1
	03	126		5.0
	04	36		7.3
	05	68		6.5
	06	2		
	07	18		16.2
	08	2		25.8
	09	60		9.9
	10	7		17.5
	11	44		14.4
	12	40		23.0
Sum		606		
Weighted Mean				

LONGREACH

Latitude: 23 26S

Longitude: 144 16E

Altitude: 190.5 m

Year	Month	Precipitation	Type	T.U.
1974	01	420	rain	5.7
	02	8		6.3
	03	48		5.7
	04	38		6.7
	05	35		8.7
	06	1		
	07	1		
	08	22		17.5
	09	7		38.6
	10	3		
	11	31		20.4
	12	40		11.2
Sum		563		
Weighted Mean				

TABLE 10

MACKAY

MACKAY

Latitude: 21 07S

Longitude: 149 10E

Altitude: 30.8 m

Year	Month	Precipitation	Type	T.U.
1970	01	380	rain	5.6
	02	416		10.2
	03	184		9.2
	04	121		5.3
	05	16		9.7
	06	41		10.2
	07	68		6.8
	08	23		27.0
	09	5		12.4
	10	6		18.3
	11	68		20.3
	12	226		7.5
Sum		1554		
Weighted Mean				8.8
1971	01	293	rain	16.1
	02	568		7.4
	03	191		6.0
	04	89		12.8
	05	27		11.7
	06	19		7.3
	07	17		6.4
	08	29		7.2
	09	7		11.5
	10	47		8.2
	11	94		11.1
	12	318		6.4
Sum		1699		
Weighted Mean				9.1

MACKAY

Latitude: 21 07S

Longitude: 149 10E

Altitude: 30.8 m

Year	Month	Precipitation	Type	T.U.
1972	01	478	rain	7.8
	02	785		6.3
	03	157		8.2
	04	64		3.9
	05	98		5.3
	06	36		9.8
	07	5		8.0
	08	2		6.7
	09	12		6.7
	10	0		
	11	98		7.3
	12	6		
Sum		1741		
Weighted Mean				
1973	01	235	rain	7.3
	02	329		3.6
	03	317		4.4
	04	194		4.2
	05	57		5.2
	06	31		5.5
	07	63		6.7
	08	7		15.4
	09	28		6.6
	10	102		6.3
	11	133		4.9
	12	271		4.5
Sum		1767		
Weighted Mean				5.0

MACKAY

Latitude: 21 07S

Longitude: 149 10E

Altitude: 30.8 m

Year	Month	Precipitation	Type	T.U.
1974	01	1034	rain	4.1
	02	96		3.8
	03	567		3.5
	04	9		3.7
	05	166		3.3
	06	2		
	07	2		
	08	43		5.8
	09	46		
	10	12		9.0
	11	195		
	12	135		4.9
Sum		2307		
Weighted Mean				

TABLE 11

MELBOURNE

MELBOURNE

Latitude: 37 49S

Longitude: 144 58E

Altitude: 34.7 m

Year	Month	Precipitation	Type	T.U.
1970	01	99	rain	46.5
	02	16		22.8
	03	137		30.5
	04	80		21.0
	05	69		18.0
	06	51		38.3
	07	25		23.0
	08	68		51.1
	09	33		73.5
	10	39		41.8
	11	67		71.5
	12	119		32.7
Sum		803		
Weighted Mean				38.4
1971	01	90	rain	33.6
	02	100		39.4
	03	26		35.5
	04	48		20.8
	05	61		28.2
	06	50		19.0
	07	28		27.1
	08	32		41.0
	09	49		55.2
	10	87		39.8
	11	139		35.7
	12	65		37.1
Sum		775		
Weighted Mean				35.1

MELBOURNE

Latitude: 37 49S

Longitude: 144 58E

Altitude: 34.7 m

Year	Month	Precipitation	Type	T.U.
1972	01	29	rain	47.1
	02	238		20.6
	03	17		28.5
	04	52		19.5
	05	23		23.6
	06	12		18.2
	07	34		16.3
	08	38		46.5
	09	28		40.5
	10	42		32.7
	11	50		34.9
	12	1		
Sum		564		
Weighted Mean				
1973	01	58	rain	25.7
	02	201		15.6
	03	83		16.3
	04	30		
	05	63		20.1
	06	52		17.1
	07	47		13.8
	08	58		22.7
	09	52		32.7
	10	81		30.9
	11	48		15.2
	12	46		17.8
Sum		819		
Weighted Mean				

MELBOURNE

Latitude: 37 49S

Longitude: 144 58E

Altitude: 34.7 m

Year	Month	Precipitation	Type	T.U.
1974	01	65	rain	14.7
	02	27		13.5
	03	36		16.1
	04	114		12.1
	05	135		10.6
	06	13		10.2
	07	87		17.1
	08	71		19.2
	09	67		23.1
	10	86		28.8
	11	50		18.5
	12	52		19.4
Sum		803		
Weighted Mean				17.0

TABLE 12

NARRABRI

NARRABRI

Latitude: 30 20S

Longitude: 149 45E

Altitude: 212.4 m

Year	Month	Precipitation	Type	T.U.
1970	01	103	rain	31.1
	02	11		28.3
	03	30		
	04	137		20.6
	05	4		26.8
	06	16		85.7
	07	3		
	08	23		
	09	90		51.1
	10	31		34.9
	11	76		53.1
	12	184		
Sum		708		
Weighted Mean				
1971	01	247	rain	
	02	161		
	03	9		
	04	3		
	05	0		
	06	11		
	07	66		30.5
	08	94		33.2
	09	52		39.5
	10	6		38.7
	11	69		45.3
	12	30		40.4
Sum		748		
Weighted Mean				

NARRABRI

Latitude: 30 20S

Longitude : 149 45E

Altitude: 212.4 m

Year	Month	Precipitation	Type	T.U.
1972	01	118	rain	13.0
	02	80		15.6
	03	57		15.9
	04	18		
	05	31		8.7
	06	18		26.1
	07	3		
	08	41		31.0
	09	27		39.6
	10	102		38.7
	11	128		26.5
	12	34		
Sum		657		
Weighted Mean				
1973	01	118	rain	18.0
	02	118		12.4
	03	17		6.4
	04	4		
	05	45		11.6
	06	33		13.3
	07	66		
	08	36		20.3
	09	67		24.7
	10	101		18.3
	11	69		
	12	122		18.5
Sum		796		
Weighted Mean				

NARRABRI

Latitude: 30 20S

Longitude : 149 45E

Altitude: 212.4 m

Year	Month	Precipitation	Type	T.U.
1974	01	303	rain	13.6
	02	5		6.2
	03	37		9.4
	04	84		
	05	16		7.4
	06	13		13.9
	07	22		
	08	24		20.5
	09	6		
	10	31		
	11	32		22.1
	12	3		17.1
Sum		576		
Weighted Mean				

TABLE 13

PERTH

PERTH

Latitude: 55 00S

Longitude 115 58E

Altitude: 17.1 m

Year	Month	Precipitation	Type	T.U.
1970	01	1	rain	10.3
	02	46		15.7
	03	1		
	04	69		11.4
	05	155		15.5
	06	230		18.0
	07	132		14.7
	08	79		49.6
	09	76		33.2
	10	40		16.8
	11	12		10.7
	12	4		30.9
Sum		845		
Weighted Mean				
1971	01	17	rain	29.6
	02	8		28.0
	03	54		14.0
	04	23		16.6
	05	83		
	06	94		10.4
	07	108		13.4
	08	83		14.7
	09	163		15.6
	10	125		23.7
	11	14		16.7
	12	2		18.5
Sum		776		
Weighted Mean				

PERTH

Latitude: 55 00S

Longitude: 115 58E

Altitude: 17.1 m

Year	Month	Precipitation	Type	T.U.
1972	01	0	rain	
	02	0		
	03	5		17.7
	04	28		8.9
	05	23		22.6
	06	135		12.2
	07	143		11.4
	08	155		12.7
	09	36		13.7
	10	47		11.3
	11	3		35.5
	12	1		
Sum		576		
Weighted Mean				
1973	01	13	rain	18.7
	02	0		
	03	0		
	04	64		9.6
	05	109		9.0
	06	189		9.5
	07	220		8.5
	08	107		15.5
	09	144		14.3
	10	56		16.0
	11	13		9.0
	12	0		
Sum		915		
Weighted Mean				11.2

PERTH

Latitude: 55 00S

Longitude: 115 58E

Altitude: 17.1 m

Year	Month	Precipitation	Type	T.U.
1974	01	0	rain	
	02	14		9.6
	03	0		
	04	80		9.9
	05	202		6.7
	06	92		6.6
	07	234		
	08	130		10.2
	09	28		13.0
	10	69		9.8
	11	26		17.2
	12			6.8
Sum		875		
Weighted Mean				

TABLE 14

RYDE

RYDE
(MASCOT AIRPORT*)

Latitude: 33 56S

Longitude : 151 11E

Altitude: 3.0 m

Year	Month	Precipitation	Type	T.U.	
1970	01	94	rain	31.6	
	02	77		28.4	
	03	175		24.8	
	04	57			
	05	15		27.4	
	06	19			
	07	0			
	08	36		38.6	
	09	130		38.6	
	10	20		33.9	
	11	151		30.7	
	12	254			
Sum		1028			
Weighted Mean				30.5	
1971	01	128	rain	26.9	
	02	215		15.9	
	03	58		14.3	
	04	78		13.1	
	05	76		12.5	
	06	68			
	07	23		39.8	
	08	114		35.7	
	09	51			
	10	2			
	11	65		(Dec 71/ Jan 72)	47.2
	12	110			18.6
Sum		988			
Weighted Mean					

* The precipitation figures are for Mascot Airport, which is situated 15 km from Ryde. No precipitation figures for Ryde are available.

RYDE

Latitude: 33 56S

Longitude 151 11E

Altitude: 3.0 m

Year	Month	Precipitation	Type	T.U.	
1972	01	400	rain (Dec 71/ Jan 72)	18.6	
	02	88		14.6	
	03	202		9.3	
	04	96		30.5	
	05	75		16.4	
	06	86		27.9	
	07	3			
	08	42		32.2	
	09	11		21.0	
	10	205		11.8	
	11	66		25.6	
	12	33		24.5	
Sum		1307			
Weighted Mean					
1973	01	278	rain	19.2	
	02	267		10.5	
	03	58		13.0	
	04	111		}	9.9
	05	22			
	06	94		15.2	
	07	101		8.0	
	08	69		}	18.4
	09	64			
	10	187		15.4	
	11	108		20.2	
	12	29		14.9	
Sum		1388			
Weighted Mean					
				14.7	

RYDE

Latitude: 33 56S

Longitude: 151 11E

Altitude: 3.0 m

Year	Month	Precipitation	Type	T.U.
1974	01	151	rain	5.9
	02	107		10.3
	03	299		5.6
	04	133		6.4
	05	186		6.4
	06	202		4.0
	07	12		12.7
	08	176		15.3
	09	37		30.8
	10	60		21.8
	11	67		14.0
	12	22		8.1
Sum		1452		
Weighted Mean				8.9

TABLE 15

TOOWOOMBA

TOOWOOMBA

Latitude: 27 35S

Longitude : 151 56E

Altitude: 586.6 m

Year	Month	Precipitation	Type	T.U.
1970	01	158	rain	17.5
	02	37		25.4
	03	50		29.6
	04	50		7.6
	05	30		21.7
	06	17		22.7
	07	0		
	08	12		30.6
	09	56		24.4
	10	94		38.5
	11	47		35.8
	12	261		18.6
Sum		812		
Weighted Mean				22.8
1971	01	168	rain	19.6
	02	262		12.5
	03	37		9.8
	04	25		
	05	28		9.8
	06	25		10.4
	07	30		11.4
	08	52		37.7
	09	39		30.3
	10	66		33.6
	11	96		34.7
	12	144		9.7
Sum		972		
Weighted Mean				

TOOWOOMBA

Latitude: 27 35S

Longitude: 151 56E

Altitude: 586.6 m

Year	Month	Precipitation	Type	T.U.
1972	01	128	rain	19.3
	02	91		8.8
	03	42		8.5
	04	59		5.1
	05	43		6.7
	06	19		16.0
	07	2		9.2
	08	30		22.1
	09	8		20.6
	10	234		19.9
	11	147		23.9
	12	112		9.9
Sum		915		
Weighted Mean				16.0
1973	01	132	rain	13.2
	02	264		8.2
	03	42		12.9
	04	7		10.7
	05	23		10.8
	06	32		12.2
	07	139		8.5
	08	57		17.0
	09	46		18.1
	10	77		16.4
	11	99		16.1
	12	102		12.7
Sum		1020		
Weighted Mean				12.1

TOOWOOMBA

Latitude: 27 35S

Longitude: 151 56E

Altitude: 586.6 m

Year	Month	Precipitation	Type	T.U.
1974	01	520	rain	4.7
	02	22		5.8
	03	84		6.4
	04	60		4.5
	05	77		8.5
	06	41		5.9
	07	6		15.1
	08	55		15.5
	09	46		26.6
	10	90		24.5
	11	179		17.6
	12	76		12.2
Sum		1256		
Weighted Mean				10.1

TABLE 16

ADELAIDE

ADELAIDE

Latitude: 34 57S

Longitude: 138 32E

Altitude: 7.6 m

Year	Month	Precipitation	Type	T.U.
1970	01	23	rain	13.2
	02	0		
	03	7		29.9
	04	59		10.7
	05	58		15.8
	06	51		21.8
	07	48		12.5
	08	66		28.3
	09	32		62.6
	10	9		44.1
	11	30		30.6
	12	36		48.3
Sum		419		
Weighted Mean				25.5
1971	01	5	rain	25.0
	02	0		
	03	36		20.4
	04	159		20.9
	05	81		16.4
	06	49		17.8
	07	49		29.4
	08	66		37.9
	09	53		37.0
	10	25		18.1
	11	48		23.9
	12	26		42.0
Sum		597		
Weighted Mean				25.1

ADELAIDE

Latitude: 34 57S

Longitude: 138 32E

Altitude: 7.6 m

Year	Month	Precipitation	Type	T.U.
1972	01	51	rain	60.1
	02	33		18.0
	03	0		
	04	33		14.4
	05	11		10.7
	06	25		16.2
	07	60		14.2
	08	55		29.7
	09	36		26.4
	10	20		19.9
	11	13		33.7
	12	26		23.9
Sum		363		
Weighted Mean				26.3
1973	01	24	rain	19.3
	02	55		10.9
	03	33		14.0
	04	62		15.0
	05	67		13.9
	06	81		14.6
	07	83		12.5
	08	46		20.6
	09	55		23.6
	10	64		24.6
	11	25		11.3
	12	31		18.6
Sum		626		
Weighted Mean				16.4

ADELAIDE

Latitude: 34 57S

Longitude: 138 32E

Altitude: 7.6 m

Year	Month	Precipitation	Type	T.U.
1974	01	50	rain	7.4
	02	71		9.1
	03	7		19.8
	04	61		10.7
	05	64		12.2
	06	32		16.2
	07	107		9.9
	08	46		13.9
	09	70		19.3
	10	111		30.5
	11	5		35.3
	12	14		10.5
Sum		638		
Weighted Mean				15.5

