Volume 3: Issue: 7 July 2003

Weather Summary for Fiji Islands – July 2003 Rainfall Outlook till October 2003

FIJI METEOROLOGICAL SERVICE

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Email: fms@met.gov.fj Web Site: www.met.gov.fj Below average and in some cases well below average rainfall in parts of the country in the last three to four months suggests that although the El Niño event has returned to neutral conditions it's effect on Fiji's rainfall may not be completely over.

In July rainfall was average to well below average except for two sites which recorded above average. A significant dry spell continues with Matei recording now six, Nadi Airport and Ono-I-Lau four and Savusavu Airport three consecutive months of below average rainfall. A number of other areas in the Western and Northern Division have received below average rainfall.

Day-time temperatures were generally below average and night-time temperatures around average across the country during the month. There were several relatively cool nights experienced across the country especially over

Weather Patterns

Fiji was affected by a number of troughs of low pressure and cold fronts in July. These systems were interspersed by ridges of high pressure which were the more dominate feature during the month. The transition between the two brought about contrasting weather, which was more pronounced over the southeastern parts of the main islands. Most parts of Fiji's waters experienced strong winds during the month, particularly when ridges affected the Group.

The 2003 South Pacific Games began with fine and cool weather brought about by a ridge from the south during the first week of July. However, from the 6-8th then the final days (11-12th) of the Games, Suva received some rain due to a cold front moved onto the country from the west. Though this system moved away from Fiji by the middle of the second week enhanced convection persisted till after the closing ceremony on the 12th. Moderate falls were recorded especially about the southeastern parts of the main islands.

On the 16th, a second cold front moved eastward across Fiji, producing rain over most the last week of the month with the coolest nights experienced from 25-27th. No new air temperature records were set this month.

Heavy falls disrupted some activities on the final days of the South Pacific Games and Tailevu township was flooded on the 11th. The Navy's Search and Rescue team was activated on the 23rd as thirteen people drifted in strong winds and rough seas in Northern Waters.

Total sunshine hours were below average at all recording sites around the country.

places. Rain subsided from the 17th, except for the southeastern parts of the main islands as the ridge following the front nudged over the Group. However, on the 20th, the front moved back onto the country bringing further rain to most places, before finally clearing the Group on the 24th. The ensuing ridge brought some cooler temperatures and lowered relative humidity significantly till the 29th.

On the 30th, a trough moved onto the Group enhancing showers till the end of the month. This trough resulted in raised air temperature and relative humidity.

As in the previous month Rotuma continued to record rain almost daily throughout July, as the cooler and drier southeast trades merged with tropical northeast wind flow over the island. Occasionally, troughs moved across the island enhancing rainfall.

TABLE 1: Rainfall from May to July 2003

<u>Station</u>	<u>Actual</u> <u>Rainfall (mm)</u>	Has rainfall in the last three months been below average, average or above average?	<u>No. of Rain</u> days in May (% of total rain)	<u>No. of Rain</u> days in June (% of total rain)	<u>No. of Rain</u> <u>days in July</u> (% of total rain)
Penang Mill	171.7	Below Average	19 (74)	08 (11)	07 (15)
Monasavu Dam	664.7	Average	24 (39)	25 (32)	23 (29)
Vatukoula Mine	181.3	Average	11 (48)	10 (44)	06 (08)
Rarawai Mill, Ba	174.3	Average	09 (73)	06 (23)	03 (04)
Yasawa-I-Rara Is.	NA	NA	NA	NA	NA
Viwa Is.	108.1	Below Average	80 (25)	04 (63)	04 (12)
Lautoka Mill(Research)	148.0	Average	07 (36)	04 (55)	03 (09)
Nadi Airport	110.1	Below Average	10 (47)	04 (27)	04(26)
Nacocolevu, Sigatoka	210.9*	Average	10 (46)	06 (08)	09 (46)
Tokotoko, Navua	488.1	Below Average	21 (50)	20 (30)	17 (20)
Laucala Bay, Suva	438.3	Average	24 (59)	19 (19)	25 (22)
Nausori Airport	465.8	Average	25 (57)	20 (16)	23 (27)
Nabouwalu	319.2	Average	21 (64)	22 (15)	18 (21)
Labasa Airport	114.6	Below Average	08 (70)	04 (12)	04 (18)
Savusavu Airport	169.0*	Below Average	13 (45)	06 (15)	14 (40)
Udu Point	NA	NA	NA	NA	NA
Matei Airport	284.3	Below Average	19 (65)	08 (15)	16 (20)
Lakeba Is.	327.1	Average	15 (19)	15 (41)	13 (40)
Matuku Is.	NA		226.6mm	97.8mm	NA
Ono-I-Lau Is.	99.1	Well Below Average	08 (46)	05 (21)	08 (33)
Vunisea, Kadavu	393.2	Below Average	21 (44)	19 (22)	18 (34)
Rotuma	769.2*	Average	20 (22)	21 (39)	25 (25)

* Data not available at the present time for Nacocolevu (27-28th) and Savusavu Airport (4th) in June. Data also not available in for Rotuma

Rainfall in the last three months

Rainfall in July

July rainfall was generally average to well below average. Matei has now recorded six, Nadi Airport and Ono-I-Lau four and Savusavu Airport three consecutive months of below average rainfall.

Rainfall recording sites in the Western Division in July recorded well below average to average rainfall except for Nacocolevu which recorded above average rainfall.

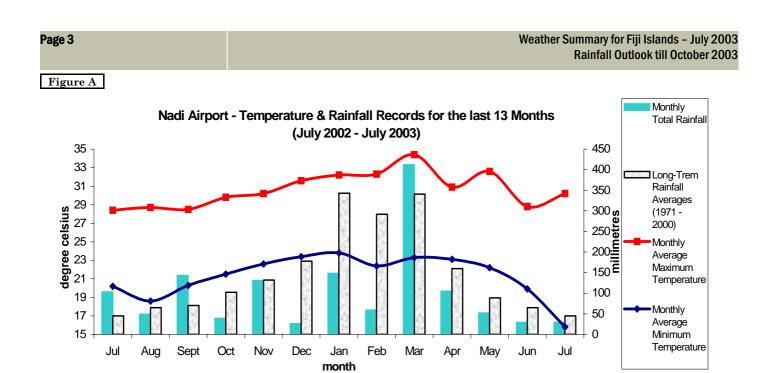
In the Northern and Eastern Divisions rainfall ranged from well below average at the Labasa Airport and Ono-I-Lau to above average at Lakeba and Vunisea. The remaining sites in the division received average rainfall during the month. Rotuma recorded above average rainfall.

Rainfall in the three-months from May to July.

The Rainfall forecast for period from May to July in the April Fiji Islands Weather Summary was for rainfall to be variable but for most sites to receive below average to average rainfall. The skill level of the forecast for the above period was low due to the forecast period coinciding with the transition period from *Wet* to *Dry* Season.

Of the twenty sites that reported in time for this summary, nine reported receiving average and nine receiving below average rainfall around the country. The southern most island of Ono-I-Lau received well below average in the last three months.

In the Central Division all the sites recorded average rainfall.





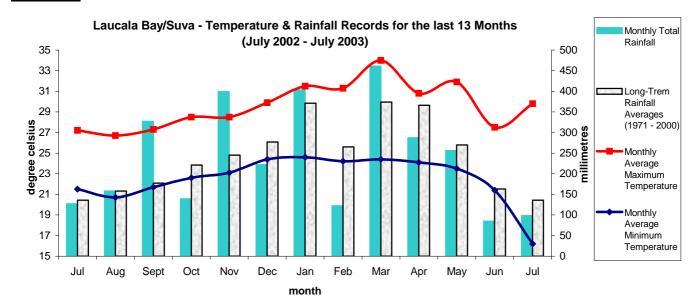
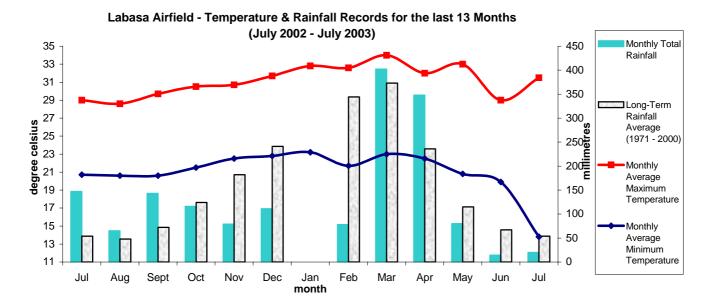


Figure C



Climate in July

Mean Day-time and Night-time Air Temperatures and 0900 hrs Relative Humidity

low average at most sites across the country. The great- departures were at Penang Mill, Ono-I-Lau and Tokoest positive departures from normal were observed at toko (Navua) which recorded 0.7, 0.4°C and 0.2°C re-Rotuma, Nabouwalu and Lautoka which recorded spectively below normal July temperatures. monthly averages of 0.8°C, 0.1°C and 0.1°C respectively above normal. The greatest negative departures were at Relative Humidity (RH) at 0900hrs was generally above Nadi Airport, Labasa Airport and Vunisea which re- average at most of the sites except for Labasa Airport, corded 0.8°C, 0.6°C and 0.6°C respectively below nor- Savusavu Airport, Rarawai Mill, Lautoka Mill and mal.

The night-time temperatures were generally around av- 15%, 6% and 4% above normal respectively. Rarawai erage. The greatest positive departures from normal Mill, Lautoka Mill and Penang Mill recording the greatwere observed at Vatukoula, Rarawai Mill, Nadi Airport est negative departure of 7%, 4% and 4% below normal. and Nacocolevu which recorded 1.4°C, 1.3°C, 1.0°C and

Soil Moisture and Runoffs

Soil moisture conditions generally ranged from moderate moisture conditions throughout the month. to limiting in the Central Division throughout the month at Suva and Navua sites . However at Nausori Airport Soil moisture conditions at Lakeba were moderate durthe conditions were moderate during the first week then ing the first week then remained excessive to ample over ample to excessive for the rest of the month.

In the Western Division, conditions were generally dry over the two weeks and ample during the last week in for most of the month at Nadi, Lautoka, Ba and July. Dry conditions prevailed at Ono-I-lau throughout Rakiraki. However at Nacocolevu the soil conditions the month while Rotuma experienced ample soil moiswere moderate during the first week then moderate to ture conditions during the first week then excessive over ample and returning to moderate over the last two weeks the two weeks and returning to ample in the last week of of the month. In contrast Monasavu recorded excessive the month. to ample conditions throughout the month.

In the Northern Division, soil moisture was generally (187.8mm), limiting to dry at Nabouwalu and Savusavu throughout (37.5mm) in July. the month. Matei and Labasa Airport recorded dry soil

Sunshine, Radiation & Winds

The total sunshine hours around the country were below and Laucala Bay 69% of normal in July. average to average in July. Nadi Airport recorded 93%,

normal.

Global Solar Radiation were also below average at all Nabouwalu and Vunisea this month the recording sites where Nadi Airport recorded 88%

Records set in July 2003

The day-time monthly temperatures were generally be- 1.0°C above average respectively. The greatest negative

Penang Mill. The greatest positive departures were at Viwa, Ono-I-Lau and Matei Airport which recorded

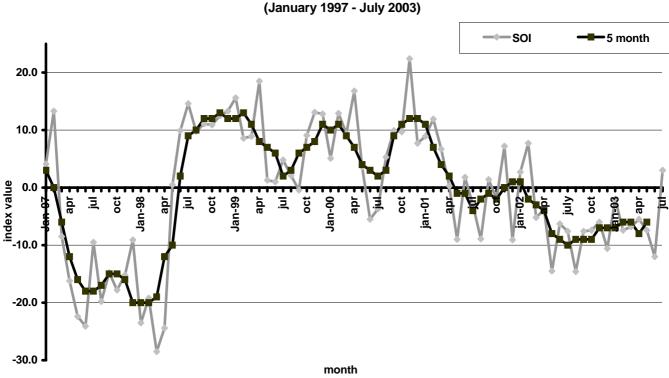
the last three weeks of the month. At Vunisea the conditions were moderate in the first week then excessive

There were significant runoffs recorded at Rotuma Monasavu (118.2mm) and Vunisea

Rotuma 90% Nacocolevu 80% Laucala Bay 75% of Wind speeds during the month was above average at Nausori Airport, around average at Nadi Airport and below average wind speeds were recorded at Rotuma,

<u>Element</u>	<u>Station</u>	Observed (record)	<u>On</u>	<u>Rank</u>	Previous (record)	<u>Year</u>	<u>Records</u> <u>Began</u>
No	New	Records	in	July	2003		





Southern Oscillation Index vs 5-Month Means (Januarv 1997 - July 2003)

ENSO status and Rainfall Outlook to October 2003

Southern Oscillation Index: The Southern Oscillation Index (SOI) for July was +3.0 (June was -12.0) with the fivemonth running mean of -6 centred on May (April was -8) (Figure D).

Neutral conditions continue in the Tropical Pacific Ocean. Surface observations in the central and eastern equatorial Pacific shows a decline in the warming trend that was observed earlier in the month. Sea surface temperatures are close to average while the subsurface temperatures continue to show warming trend for July in the central and eastern pacific with cool waters entirely dissipating in the east. The NINO3 and NINO3.4 indices are -0.4° C and $+0.5^{\circ}$ C respectively. Most of the models continue to indicate heavy bias towards neutral conditions for the rest of the year. Nine out of twelve models show *Neutral* values for NINO3 in five months time with three predicting Cool conditions. In eight months time, all ten available models indicate Neutral conditions.

(The ENSO Update and SOI are provided by of the National Climate Centre, Australian Bureau of Meteorology and can be found at http://www.bom.gov.au)

FMS Rainfall Prediction Model: This model is based on schemes, which have run successfully at the Australian Bureau of Meteorology's National Climate Centre. These a statistical scheme based on the relationship between SOI and subsequent three-month rainfall totals. In each case the probability of low, medium or high rainfall in the oncoming three-month period is provided. The scheme uses the SOI averaged over the most recent three-month period. <u>The reliability of the model is high during the wet season (Nov-Mar) but decreases during the dry season (May-Sept) and during the transitions months, April and October.</u>

The model forecasts rainfall to be below average to average in the Western parts of Viti Levu and across most of Vanua Levu (except Udu Point, Savusavu and Matei - around average) the remaining parts of the country are predicted to receive around average rainfall (Figure E).

Australian Rainman: This is a Rainfall Prediction Model was created from joint efforts between Australia Meteorological and Agricultural Agencies. The model incorporates the use of SOI to test its effects on the probability of rainfall in upcoming months. It shows the relationship between ENSO (El Niño - Southern Oscillation) events and rainfall. Due to public demand this model is currently used to present the probability of receiving rainfall in the coming individual months over a three-month period. Please note that the reliability of forecast for one month is lower than for a combined three month period.

The model predicts variable rainfall across the country and across the next three months (Table. 2).

Outlook for August to October 2003:

Based on the model predictions and current climatic conditions, Fiji's rainfall is likely to be below average to average.

NOTE: The confidence level in the outlook is 'low'.

Preliminary Climatological Summary for June 2003

FIJI METEOROLOGICAL SERVICE

DATE 05/08/2003

PRELIMINARY CLIMATOLOGICAL DATA FOR MONTH 7 , 2003 : SUMMARY FOR DAYS 1 TO 31

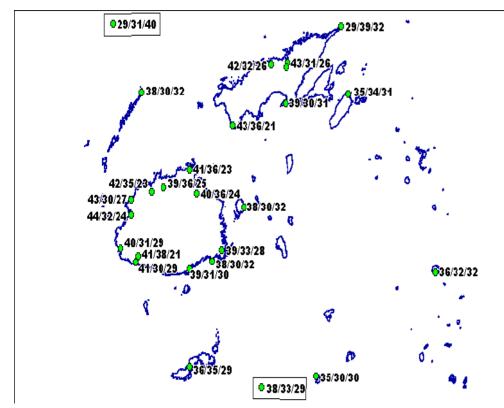
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BA/RARAWAI MILL	-				22								$1 \ 12.$			
LAUTOKA AES	1		6 3		22	28.4	0	.1 20	.3	0.4	30.	.6 1	9 16.	5 27		
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NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA	.1MM 32 30 29 37 35 fau 33 32 31 32 fau	MAX. DS 75 70 63 20 75 1ty 75 75 75 75 1ty	LAS ON D. 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 aws	T DEF 5 70 1 0 2 0 3 0 5 96 5 82 5 28 3 28 5 41	T NO DYS 23 0 0 0 0 0 0 0 0 23 23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 16	RO 0 1 188 0 0 0 0 0 0	DYS 0 1 8 0 0 0 0 0 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4	DRY (A 23. 22. 27. 25. 24. 24. 24. 24.	WI VERA 6 20 6 21 8 20 7 25 4 23 6 21 3 21 4 23 8 22	ET AGE).6 1.5).8 5.0 3.8 1.8 1.8 1.9 2.7	RH% AT 76 82 83 80 88 78 79 80 83	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1	KT 5.7 0.0 0.0 4.9	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA	.1MM 32 30 29 37 35 fau 33 32 31 32 fau 32	MAX. DS 75 70 63 20 75 1ty 75 75 75 75 1ty 75	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 aws 1 7	T DEF 5 70 1 0 2 0 3 0 5 96 5 28 3 28 5 41 5 85 5 85	T NO DYS 23 0 23 0 0 0 10 0 30 0 30	RO 0 1 188 0 0 0 0 0 0 0	DYS 0 1 8 0 0 0 0 0 0 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24.	WI VERA 6 20 6 21 8 20 7 25 4 23 6 21 3 21 4 23 8 22 9 20	ET AGE).6 L.5).8 5.0 3.8 L.8 L.8 L.8 L.8 L.9 2.7	RH% AT 76 82 83 80 88 78 79 80 83 69	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6	KT 5.7 0.0 0.0 4.9	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25	MAX. DS 75 70 63 20 75 1ty 75 75 75 1ty 75 1ty 75 10	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 3 aws 1 7 4	T DEF 5 70 5 70 1 0 2 0 3 0 5 96 5 28 3 28 5 28 5 41 5 85 5 85 6 85	T NO DYS 0 23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 10 16 5 30 0 0	RO 1 0 0 1 188 0 0 0 0 0 0 0 0 0 0 118	DYS 0 1 8 0 0 0 0 0 0 0 0 16	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 17.	WI VERA 6 20 6 21 8 20 7 25 4 23 6 21 3 21 4 23 8 22 9 20 8 16	ET AGE 0.6 1.5 0.8 5.0 3.8 1.8 1.8 1.8 1.9 2.7 0.9 5.9	RH% AT 76 82 83 80 88 78 79 80 83 69 91	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6	KT 5.7 0.0 0.0 4.9	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30	MAX. DS 75 70 63 20 75 1ty 75 75 75 1ty 75 10 33	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 aws 1 7 4 10 1	T DEF 5 70 5 70 1 0 2 0 3 0 5 96 5 28 3 28 5 41 5 85 5 85 6 90 7 0	T NO DYS 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 10 10 16 5 30 0 0 0 0	RO 0 1 188 0 0 0 0 0 0 0 0 0 0 118 35	DYS 0 0 1 8 0 1 8 0 0 0 0 0 0 0 0 1 6 3	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 17. 23.	WI VER2 6 20 6 21 8 20 7 25 4 21 6 21 3 21 4 21 8 22 9 20 8 16 0 21	ET AGE).6 L.5).8 5.0 3.8 L.8 L.8 L.8 L.8 L.8 L.9 2.7 ().9 5.9 L.1	RH% AT 76 82 83 80 88 78 79 80 83 69 91 84	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6	KT 5.7 0.0 0.0 4.9 13.5	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30	MAX. DS 75 70 63 20 75 1ty 75 75 75 1ty 75 10 33 64	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 aws 1 7 4 10 1 5 4	r DEF 5 7(2 () 5 96 5 82 5 28 5 28 5 41 5 85 0 () 7 () 4 ()	T NO DYS 23 0 0 0 0 0 0 0 0 5 29 2 27 3 10 - 16 5 30 0 0 0 0 0 0 0 0 0 0	RO 0 1 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DYS 0 0 1 8 0 1 8 0 0 0 0 0 0 0 0 0 1 6 3 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9 22.5	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 17. 23. 22.	WI VERA 6 20 6 21 8 20 7 25 4 23 6 21 3 21 4 21 8 22 9 20 8 16 0 21 4 20	ET AGE).6 L.5).8 5.0 3.8 L.8 L.8 L.8 L.9 2.7).9 2.7 0.9 L.1).4	RH% AT 76 82 83 80 88 78 79 80 83 69 91 84 83	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6 22.6	KT 5.7 0.0 0.0 4.9	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO LAKEBA	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30 31	MAX. DS 75 70 63 20 75 1ty 75 75 75 75 1ty 75 10 33 64 42	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 3ws 1 7 4 10 1 5 4 11 2	r DEF 5 7(2 () 5 96 5 82 5 28 5 28 5 41 5 85 0 () 7 () 4 ()	T NO DYS 23 0 0 0 0 0 0 0 0 5 29 2 27 3 10 - 16 5 30 0 0 0 0 0 0 0 0 0 0	RO 0 1 188 0 0 0 0 0 0 0 0 0 0 118 35	DYS 0 0 1 8 0 1 8 0 0 0 0 0 0 0 0 0 1 6 3 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 17. 23. 22.	WI VERA 6 20 6 21 8 20 7 25 4 23 6 21 3 21 4 21 8 22 9 20 8 16 0 21 4 20	ET AGE).6 L.5).8 5.0 3.8 L.8 L.8 L.8 L.9 2.7 0.9 L.1 0.9	RH% AT 76 82 83 80 88 78 79 80 83 69 91 84 83	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6	KT 5.7 0.0 0.0 4.9 13.5	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30 31 fau	MAX. DS 75 70 63 20 75 75 75 75 75 10 33 64 42 1ty	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 aws 1 7 4 1 1 1 2 aws	r DEF 5 70 1 0 2 0 5 96 5 82 5 28 5 28 5 41 5 85 0 0 7 0 4 0 0 0	<pre>' NO DYS) 23) 0 0 0 0 0 5 29 2 27 3 11 3 10 - 16 5 30 0 0 0 0 0 0</pre>	RO 0 1 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DYS 0 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 3 3	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9 22.5 23.5	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 23. 24. 24.	WI VERA 6 20 6 21 8 21 7 25 4 21 6 21 3 21 4 21 8 22 9 20 8 16 0 21 4 20 1 21	ET AGE 0.6 1.5 0.8 5.0 3.8 1.8 1.8 1.8 1.9 2.7 0.9 5.9 1.1 0.4 1.3	RH% AT 76 82 83 80 88 78 79 80 83 69 91 84 83 77	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6 22.6 23.3	KT 5.7 0.0 4.9 13.5 5.7 4.3	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO LAKEBA *MATUKU VUNISEA	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30 31 fau 30	MAX. DS 75 70 63 20 75 75 75 75 75 75 10 33 64 42 1ty 33	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 3ws 1 7 4 1 1 1 2 aws 5 1	r DEF 5 70 1 0 2 0 5 96 5 82 5 28 5 28 5 41 5 85 5 41 5 85 7 0 7 0 4 0 0 0 3 0	<pre> NO DYS) 23) 0 0 0 0 0 5 29 2 27 3 11 3 10 - 16 5 30 0 0 0 0 0 0 0 0</pre>	RO 0 1 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DYS 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9 22.5 23.5 22.5	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 24. 22. 22.	WH VERA 6 20 6 22 8 20 7 29 4 23 6 22 3 22 4 23 8 22 9 20 8 16 0 23 4 20 1 23 6 20 6 21 6 20 6 20 6 20 6 20 7 29 7 29 7 20 7 29 7 20 7 29 7 20 7 29 7 20 7 20 7 20 7 20 7 20 7 20 7 20 7 20	ET AGE 0.6 1.5 0.8 5.0 3.8 1.8 1.8 1.9 2.7 0.9 5.9 1.1 0.4 1.3 0.2	RH% AT 76 82 83 80 88 78 79 80 83 69 91 84 83 77 79	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6 22.6 23.3 21.8	KT 5.7 0.0 0.0 4.9 13.5	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO LAKEBA *MATUKU	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30 31 fau	MAX. DS 75 70 63 20 75 75 75 75 75 10 33 64 42 1ty	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 aws 1 7 4 1 1 1 2 aws	r DEF 5 70 1 0 2 0 3 0 5 82 5 28 5 28 5 28 5 41 5 85 5 41 5 85 7 0 7 0 4 0 5 5 4 5 5 4 5 5 4 1 0 5 5 4 1 0 5 7 6	<pre>' NO DYS) 23) 0 0 0 0 0 5 29 2 27 3 11 3 10 - 16 5 30 0 0 0 0 0 0</pre>	RO 0 1 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DYS 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9 22.5 23.5	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 24. 22. 22. 22	WH VERA 6 20 6 22 8 20 7 29 4 23 6 22 3 22 4 23 8 22 9 20 8 16 0 23 4 20 1 23 6 20 4 20 1 23 6 20 4 20 6 20 6 20 7 29 7 29 7 29 7 29 7 29 7 29 7 29 7 29	ET AGE).6 1.5 0.8 5.0 3.8 1.8 1.8 1.9 2.7 0.9 5.9 1.1 0.4 1.3 0.2 9.9	RH% AT 76 82 83 80 88 79 80 83 69 91 84 83 77 79 78	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6 22.6 23.3	KT 5.7 0.0 4.9 13.5 5.7 4.3	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO LAKEBA *MATUKU VUNISEA ONO-I-LAU	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30 31 fau 30 28	MAX. DS 75 70 63 20 75 75 75 75 75 10 33 64 42 1ty 33 75	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 3ws 1 7 4 1 1 5 4 11 2 aws 5 1 1 7	r DEF 5 70 1 0 2 0 3 0 5 82 5 82 5 28 5 41 5 85 6 96 7 0 4 0 0 0 3 0 5 54	<pre>' NO DYS) 23) 0 0 0 0 0 5 29 2 27 3 11 3 10 - 16 5 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>	RO 0 0 1 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DYS 0 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9 22.5 23.5 22.5 22.4	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 22. 22. 24. 22.	WH VERA 6 20 6 22 8 20 7 29 4 23 6 22 3 22 4 23 8 22 9 20 8 16 0 23 4 20 1 23 6 20 4 20 1 23 6 20 4 20 5 20 6 20 5 20 6 20 7 29 7 29 7 29 7 29 7 29 7 29 7 29 7 29	ET AGE).6).8 5.0 3.8 1.8 1.8 1.9 2.7).9 5.9 1.1 0.2 9.9 1.1 0.2 9.9 0.8	RH% AT 76 82 83 80 88 79 80 83 80 83 69 91 84 83 77 79 78 71	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6 22.6 23.3 21.8 21.3	KT 5.7 0.0 4.9 13.5 5.7 4.3	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13
NADI AIRPORT SUVA/LAUCALA BAY NACOCOLEVU ROTUMA VIWA *UDU POINT LABASA AIRFIELD NABOUWALU SAVUSAVU AIRFIELD MATEI AIRFIELD *YASAWA-I-RARA VATUKOULA MONASAVU NAUSORI AIRPORT NAVUA/TOKOTOKO LAKEBA *MATUKU VUNISEA ONO-I-LAU BA/RARAWAI MILL	.1MM 32 30 29 37 35 fau 32 31 32 fau 32 25 30 30 31 fau 30 28 32	MAX. DS 75 70 63 20 75 75 75 75 75 10 33 64 42 1ty 33 75 75	LAS' ON D 1 7 5 5 5 4 10 1 7 aws 1 7 2 7 1 7 1 7 1 7 aws 1 7 4 1 1 2 aws 5 1 1 7 1 7 1 7	T DEF 5 70 1 0 2 0 3 0 5 82 5 82 5 82 5 82 5 82 5 82 5 82 5 82 5 41 5 85 6 93 6 93 6 93 6 93 6 93 6 93 6 86	<pre>' NO DYS) 23) 0 0 0 0 0 5 29 2 27 3 11 3 10 - 16 5 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0</pre>	RO 0 0 1 188 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DYS 0 0 1 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	DLY MEAN 23.7 23.6 23.1 27.3 25.5 23.7 24.3 24.3 24.4 24.0 18.0 22.9 22.5 23.5 22.5 22.4 23.8	DRY (A 23. 22. 27. 25. 24. 24. 24. 24. 24. 24. 22. 24. 22. 22	WH VERA 6 20 6 22 8 20 7 29 4 23 6 22 3 22 4 23 8 22 9 20 8 16 0 22 4 20 1 22 6 20 4 19 5 20 0 20 6 20 6 20 7 29 9 20 8 16 9 20 8 16 9 20 9 20 8 16 9 20 9 20 9 20 9 20 9 20 9 20 9 20 9 20	ET AGE 0.6 1.5 0.8 5.0 3.8 1.8 1.8 1.9 2.7 0.9 5.9 1.1 0.4 1.3 0.2 0.9 0.8 0.9 0.8 0.9	RH% AT 76 82 83 80 88 79 80 83 80 83 80 83 80 83 80 83 80 83 80 83 87 91 84 83 77 79 78 87 168	VP 9AM) 22.1 24.0 23.0 29.5 28.3 24.0 24.1 24.4 26.1 21.6 18.6 23.6 22.6 23.3 21.8 21.8 21.8 21.8	KT 5.7 0.0 4.9 13.5 5.7 4.3	%OF POS 61 31 45	MJ/ SQ.M 12.9 7.9 13

DS IS SOIL MOISTURE DEFICIT,LIMIT 75 MM; RO IS WATER SURPLUS (INDEX OF RUNOFF) DEF (AE-PE) IS EVAPOTRANSPIRATION DEFICIT (INDEX OF IRRIGATION WATER NEEDED. PE IS LONG TERM MEAN PENMAN POTENTIAL EVAPOTRANSPIRATION (CALCULATED OR ESTIMATED). MEAN TEMPERATURE IS (MAX+MIN)/2; WIND IS MEAN SPEED AT 06,12,18,24 HOURS. \$:SOLAR RADIATION CALCULATED FROM SUNSHINE DURATION. # :DEPARTURE FROM NORMAL. + :NUMBER OF DAYS WITH 0.1 MM OR MORE RAIN. * :PERCENT OF NORMAL.

Note: This summary is prepared for rapid dissemination as soon as possible following the end of the month. The quantitative data are obtained daily on the phone or radiotelephone from a network of climate stations reporting 9 am observations; these data must be treated as provisional. Water balance calculations are approximate and are intended for guidance purposes only. Also, FMS does not guarantee accuracy and reliability of the forecast information presented in this summary but the Department should be sought for expert advice, any clarification or additional information. Any person wishing to re-print any information provided in this summary must seek permission from the Director of Meteorology.

Three Month Rainfall Outlook Probabilities for August to October 2003

FIGURE E: Three Month Forecast for Selected Stations in Fiji using the Fiji presented as Meteorological Services Rainfall Prediction Model



Please note that the probabilities are listed beside of the corresponding station marker or dot.

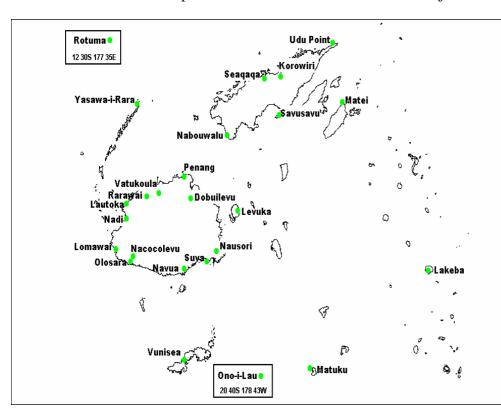


FIGURE F: Reference Map of selected Climate/Rainfall sites in Fiji

The forecast probabilities are presented as

DRY/NORMAL/WET

'DRY' range refers to rainfall less than 33rd percentile.

'NORMAL' (average) range refers to rainfall between 33rd and 67th percentiles.

WET' range refers to rainfall above 67th percentile.

Reference Table for 33rd and 67th Percentile

Station	33% (mm)	67% (mm)							
Western Division									
Dobuilevu	272	389							
Vatukoula	167	269							
Rarawai	171	289							
Penang	177	274							
Lautoka	168	257							
Nadi	172	276							
Lomawai	161	261							
Nacocolevu	206	304							
Olosara	216	320							
Yasawa	157	259							
Central Divis	sion								
Navua	555	796							
Suva	385	600							
Nausori	384	542							
Eastern Divi	sion								
Levuka	306	476							
Lakeba	227	335							
Matuku	192	357							
Ono-I-Lau	232	345							
Vunisea	286	418							
Northern Div	vision								
Labasa Mill	173	246							
Seaqaqa	166	292							
Nabouwalu	249	453							
Savusavu	300	417							
Udu Point	270	422							
Matei	360	495							
Rotuma	665	864							

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TABLE 3: Monthly Rainfall Outlook Probabilities for August to October 2003

	Au	gust	Sept	ember	October		
Station Name	Average* Probability [#]		Average*	Probability [#]	Average*	Probability [#]	
Western Division							
Dobuilevu	80	57	119	36	153	65	
Vatukoula	68	41	78	33	99	50	
Rarawai	65	31	74	30	107	41	
Penang	73	23	96	44	114	44	
Lautoka	70	35	72	33	102	47	
Nadi	65	45	70	43	102	45	
Lomawai	79	33	71	30	71	47	
Olosara	98	31	103	32	91	40	
Nacocolevu	83	30	92	33	98	52	
Yasawa-I-Rara	63	24	66	44	105	32	
Central Division							
Navua - Tamanoa	202	42	229	42	280	53	
Suva	158	38	177	30	221	54	
Nausori	147	47	165	46	205	49	
Eastern Division							
Lakeba	102	40	101	49	123	54	
Ono-I-Lau	118	21	108	37	86	58	
Northern Division							
Korowiri	52	51	75	40	127	31	
Seaqaqa	56	63	82	36	142	38	
Nabouwalu	105	43	113	36	170	42	
Savusavu	116	51	133	24	171	32	
Udu Point	85	52	113	46	165	22	
Rotuma	210	37	238	50	340	38	

Please note that the above figures should be used with caution, as there is some degree of uncertainty associated with them, and particularly the reliability of the model is low during the transition months and the dry season.

* 'Long-term Average' for the 30 year period from 1971-2000.

Probability of expecting at least normal rainfall.