



HYDROMETEOROLOGICAL SERVICE OF GUYANA

Farmer's Monthly Weather Bulletin

To observe, archive and understand Guyana's weather and climate and provide meteorological, hydrological and oceanographic services in support of Guyana's national needs and international obligations.



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Highlights: June-August 2020

- Rainfall is likely to be wetter than usual for June through August over most parts of Guyana.
- Both night-time and daytime temperatures are expected to be warmer than usual.
- The frequency of sporadic downpours is likely to increase as the season progresses.
- The risk of flooding in some low-lying areas is likely to increase as the season progresses.
- Possibility for the increase of pests and diseases associated with wetter conditions.
- A gradual increase in surface wetness and soil moisture is anticipated as the season progresses.
- The frequency of wet days and wet spells will increase as the season progresses.
- Neither El Niño nor La Niña conditions are present.

Seasonal Rainfall Outlook (June-August 2020)

Wetter than usual rainfall condition is expected for June through August. As the season progresses, it is expected that there will be a general increase in wet spells (consecutive days with rainfall). Increased periods of downpours are expected especially in the months of June and July. In Figure 1, the normal accumulated rainfall totals of selected stations for the period June to August is represented. Figure 2 represents the normal rainfall of selected stations for the month of June.

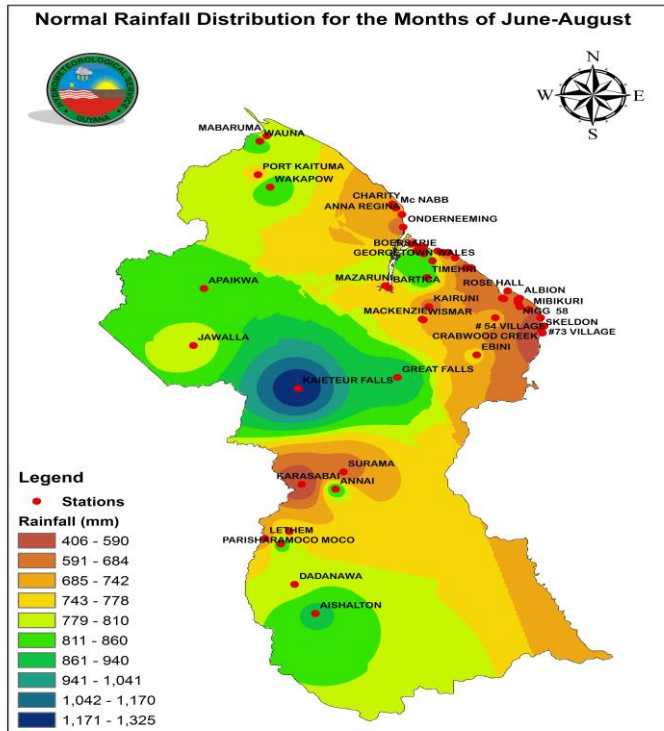


Figure 1: Normal Accumulated Rainfall Distribution for the months of June-August.

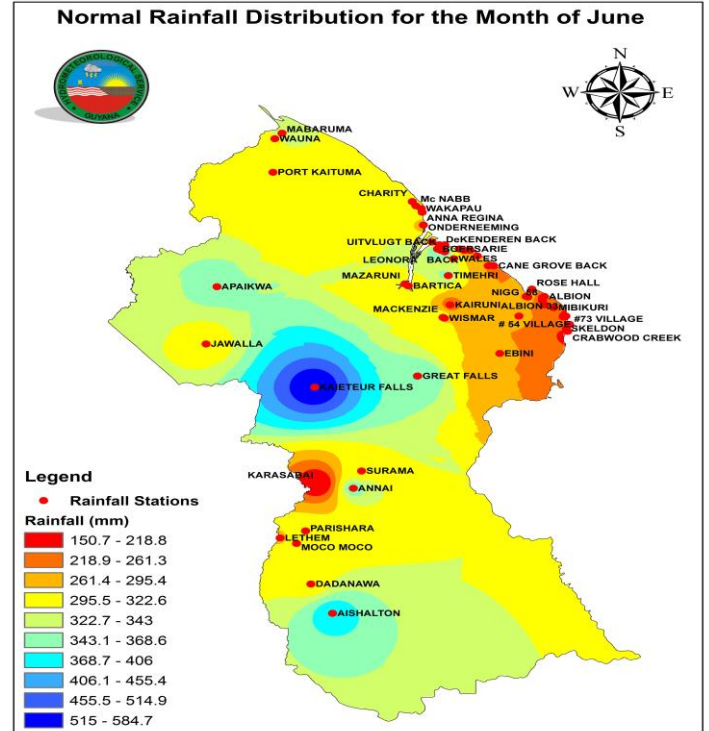


Figure 2: Normal Rainfall Distribution for the month of June.

Seasonal Temperature Outlook (June-August 2020)

For the forecasted period, both daytime and night-time temperatures are expected to be warmer than usual. The average minimum and maximum temperatures of selected stations for June-August are represented in Table 1 below.

Table 1: Average Maximum and Minimum Temperatures for June-August

Stations	June		July		August	
	Maximum Temperature (°C)	Maximum Temperature (°C)	Maximum Temperature (°C)	Minimum Temperature (°C)	Maximum Temperature (°C)	Minimum Temperature (°C)
Georgetown	29.0	24.0	30.2	23.7	30.9	24.0
Timehri	30.5	22.6	30.9	22.3	31.8	22.4
New Amsterdam	30.7	23.3	31.1	23.0	32.0	23.3
Kamarang	29.1	20.3	29.6	20.0	30.5	20.1
Lethem	31.1	23.6	31	23.3	32.1	23.8
Ebini	31.8	22.8	32.1	22.4	33.0	22.1

Rain Days

Table 2: Average rain days for June-August of selected stations

Stations	June	July	August
Mabaruma	22	19	17
Anna Regina	16	14	9
Leonora	22	21	14
Georgetown	22	21	14
Timehri	22	23	17
Blairmont	20	19	13
New Amsterdam	20	18	13
Kamarang	25	23	18
Lethem	20	20	14
McKenzie	23	21	17
Ebini	20	20	14

Note: A rain day is considered as a day with rainfall more than or equal to 1 mm.

Sunshine Hours

Table 3: The average daily sunshine hours for June-August of selected stations

Station	June	July	August
Georgetown	5.8	6.4	7.6
Timehri	4.7	5.7	7
New Amsterdam	5.6	6.7	7.9
Lethem	5.2	6.3	7
Ebini	5.6	6.7	-

Dry Spells

Table 4: 7-Days Dry Spells Outlook for June -August 2020 (Experimental)

Stations	No. of 7-days dry spells	
	Normally	Forecast
Enmore	0-2	0-2
Great Fall	0-1	0-1
Georgetown	0-1	0-1
Leonora Front	0-1	0-1
McNabb	0-2	0-1
New Amsterdam	0-2	0-1
Onderneeming	0-4	0-3
Skeldon	0-1	0-1
Timehri	0-0	0-0

Note: A 7-day Dry spell is defined as 7 consecutive days with rainfall less than 1 mm.

Probability of Rainfall Exceedance in Relation to Crop Water Needs for June -August 2020

Table 5: Probability of rainfall exceedance in relation to the minimum water requirement for the growing period of selected crops

Crop	Average Days To Maturity	Minimum Water Requirement(Mm) For The Total Growing Period	New Amsterdam	Timehri	Georgetown	Lethem	Leonora Front	Albion	Blairmont	Charity
Pepper	60	635	75 %	95%	90%	80%	84%	62%	58%	66%
Okra	50-65	381	96%	100%	100%	100%	96%	96%	92%	89%
Tomato	60-80	508	93%	100%	94%	95%	92%	85%	78%	74%
Squash	50	178	100%	100%	100%	100%	100%	100%	100%	100%
Cabbage	80-105	508	93%	100%	94%	95%	92%	85%	78%	74%
Bora	50	381	96%	100%	100%	100%	96%	96%	92%	89%
Celery	90	762	40%	92%	80%	65%	78%	44%	38%	58%
Eggplant	70-85	508	93%	100%	94%	95%	92%	85%	78%	74%
Cucumber	60-65	508	93%	100%	94%	95%	92%	85%	78%	74%
Pumpkin	90-120	508	93%	100%	94%	95%	92%	85%	78%	74%

Note: The table above gives you the chances of getting a specified amount of rainfall over a given timescale, in this case 3 months. This information can be used to guide stakeholders on the probabilities of a crop getting a specific amount of water over a certain period if it is rain-fed.

Possible Implications of the June-August Seasonal Outlook on Agriculture

- Increased risk of floods as the season progresses in low-lying areas.
- A gradual increase in surface moisture.
- An increase in pest and diseases related to wet conditions.
- A gradual increase in downpours as the season progresses.
- A gradual increase in days with rainfall.
- Increase in frequency of wet spells (consecutive days with rainfall).
- Difficulty accessing areas where there are mud dams.

Advice for Farmers for the June-July 2020

Table 6: Advice for Farmers for the June-July 2020

REGIONS	SEASONAL OUTLOOK	ADVICE
1 to 10	At least the usual to Wetter than Usual Rainfall Conditions Expected	<p>Advice for Crop Farmers</p> <ul style="list-style-type: none"> • Harvest water during the wetter days of the season. • Change the timing of farm operations- adjust sowing and harvesting period to avoid negative effects of heavy downpours. • Water crops once the soil is dry. • Construct proper drainage for water runoff. • Cultivate seedlings under a shaded area to avoid damping off. • Maintain drains around crop beds and/or plant crops on raised beds. • Plant crops that are tolerant to wet conditions. <p>Advice for Livestock Farmers</p> <ul style="list-style-type: none"> • House animals on high ground and/or on raised pens. • Store fertilizer, feeds and pesticides away from moisture and water sources. • Monitor livestock for pests and diseases associated with wetter conditions. • Provide proper shelter for animals.

Recommended Crops for the June –July 2020

- Corilla
- Bora
- Pepper
- Squash
- Lettuce
- Eggplant
- Cucumber
- Pumpkin
- Cabbage
- Eschalot

This bulletin is prepared by the Hydrometeorological Service of Guyana. We welcome feedback, suggestions and comments on this bulletin. Correspondences should be directed to The Chief Hydrometeorological Officer at cho.guyana@gmail.com and the Agronomist at agrodonessa@yahoo.com. You may also visit our website at www.hydromet.gov.gy. Tele#: (592)-225-9303 and Fax#: (592)-226-1460.