Supplement of Nat. Hazards Earth Syst. Sci., 25, 1963–1974, 2025 https://doi.org/10.5194/nhess-25-1963-2025-supplement © Author(s) 2025. CC BY 4.0 License.





## Supplement of

## Assessing future impacts of tropical cyclones on global banana production

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Description of sheets									
<b>Database:</b> Overview of 22 datasets with related articles.									
<b>Datasets:</b> Development of damage ratios and vulnerability curve .									

## S1 Tropical cyclones that affected banana plantation Table S1

ble S	1										
Г								Windspeed	(x0.88		
	Date Lan	id of event	Name Cyclone	Basin	Location of plantation	Wind speed (kt)	% destroyed	(m/s) *0,511	Harper, 2010)	Link to Cyclone Track	Link to source Additional information
											https://www.hurriyetdailynews.com/typhoon-destroys-quarter-of-philippine-banana-
											crop-36245 + https://www.rappler.com/business/17451-pablo-destroys-quarter-of-ph-
	05/12/2012 The	Philippines	Typhoon Pablo (Bopha)	North Western Pacific		15	0 100%	6 71	7 68	NOAA: https://coast.noaa.gov/h	
ı					"completely destroyed the country's						https://pdf.sciencedirectassets.com/271787/1-s2.0-S0306919217X0002X/1-s2.0-
	1979 Don	minica	Hurricane David	North Atlantic	banana crop"	9	7 100%	6 50	0 44	Wind speed from article	\$030691921630642X/main.pdf?X-Amz-Security-
Г					In 2017, around 60 percent of all						
					banana harvests in the Dominican						
					Republic were lost due to hurricane						
L		minican Republic		North Atlantic	Irma.	9	0 60%				https://www.delaat.n/en/knowledge-base/bananas-and-hurricanes-not-the-best-duo
	Nov/20 Hor	nduras	Hurrican Eta	North Atlantic	No specific location	3	0 82%	6 15	5 14	NOAA: https://coast.noaa.gov/h	FAO market review (2022) https://www.itfnet.org/v1/2021/12/honduras-banana-exports-slashed/
Г											
					no specific location, but region small						
	Aug/07 Mar	rtinique	Hurricane Dean	North Atlantic	enough to check evelone track	8	0 100%	6 41	1 34	Wind speed from article	https://www.reuters.com/article/us-storm-dean-bananas-idUSL1861011420070818 photo: https://www.flickr.com/photos/11729878@N04/sets/72157601570957993
- H								-			ISBDS.DYWWYADERSDADARDED
					no specific location, but region small						ste/2007/08/19/e-cyclone-
	Aug/07 Gua	dalona	Hurricane Dean	North Atlantic	enough to check evelone track	10	0 90%	6 51	1 44	wind speed from article	https://en.wikipediu.org/wiki/Effects of Hurricane Dean in the Lesser Antilles
H	Tanger										
	c 22 p	. 100	Hurricane Fiona	North Atlantic	Southern puerto rico		5 90%	/			https://www.washindtonpost.com/business/2022/09/24/flona-puerto-rico-farm-dsmarke/
H	Sep/22 Pue	HO RICO	Hurreane Fiona	TOTAL PARAMETER	Doubletti puetto rico	- 1	3 707	3	, ,,	NOSCA: https://coast.noaa.gov/n	INIUS.//WWW.Amberington.com/mobiless/20/2/ambra-pural-
	Feb/11 Oue	rensland	Cyclone Yasi	South Pacific	North Oucensland	8	0 75%	6 41	1 34	NOAA: https://coast.noaa.gov/h	https://sustralianfoodtimeline.com.au/cyclone.vasi/
ŀ			-,					-			
	Oct/12 Jam	aica	Hurricane Sandy	North Atlantic	St Mary	7	5 85%	6 36	34	NOAA: https://coast.noaa.gov/h	https://nli, gov. jm/history-notes/History-%20e/%20Hurricanes%20and%20Floods%20in% https://www.ncbcapitalmarkets.com/research/latestnews/745-hurricane-sandy-damaged-over-85-of-jps-banana-crop + https://www.fruintet.com/fresh-produce-journal/hurricane-sandy-affects-caribbean-produce/56401_article
ŀ					no specific location, but region small						
	Aug/15 Dog	minica	Storm Erika	North Atlantic	enough to check cyclone track	4	0 80%	6 21		Windspeed from article	https://www.freshfruitoortal.com/news/2015/09/01/crika-devastate-dominicas-banana https://www.nbc.noaa.cov/dstatet/AL052015_Erica.pdf.
H	Aug 17 Dos	HIII CH	DOMEST LEAKE	TOTAL PARIENCE	no specific location, but region small			-		wandspeed from article	Infliss://www.czapo.com/analysi-insighis/hurricane-inona-damares-banana-and-cacao-
	Aug/12 Dog	ninican republic	Hurricane Isaac	North Atlantic	enough to check cyclone track	5	0 10%	6 26	6 23	NOAA: https://coast.noaa.gov/h	production-in-dominican-republic/ https://www.freshfruitportal.com/news/2012/08/30/hurricane-is-asc-damases-10-of-dominican-republic-banana-crop/
ı					no specific location, but region small						https://www.utinet.org/v1/2015/10/dommican-republic-tropical-storm-leaves-behind-a-
	Aug/15 Don	minican Republic	Storm Erika	North Atlantic	enough to check cyclone track	3.	5 40%	6 18	8 10	Windspeed from article	destroyed-banana-crop/
Ī	Oct/98 Hor	nduras	Hurricane Mitch	North Atlantic	no specific location	15	6 100%	6 80	71	Windspeed from article	https://www.wsi.com/srticles/S8910220842441318500 https://digital-media.fao.or//archive/Honduras-Banana-croo-destroved-by-Humicane-Mitch-2A6XC5MTORZ html
ľ	Sep/88 Jam		Hurricane Gilbert	North Atlantic	no specific location	16	0 100%	4 82		Windspeed from site	https://nli.gov.im/historv-notes/History%20ef%20ht/ricanes%20and%20Floods%20in%20Jamaica.adf
ľ	Aug/80 Jam	aica	Hurricane Allen	North Atlantic	no specific location	16	5 100%	4 8:	5 75	Windspeed from site	https://nlt.gov.im/historv-notes/History%20of%20Hurricanes%20and%20Floods%20in%20Jamaica.ndf
ı					Arceo Solis from which 9 000 ha (22			1			
	Jun/21 Sou	thern Mexico	Storm Dolores	North Eastern Pacific	240 acres) of bananas in the state of		0 60%	6 31	1 2	Windspeed from article	FAO market review (2022) https://watchers.news/2021/06/22/60-percent-of-banana-crops-in-colima-wiped-out-by-tropical-storm-dolores/
- 1	7um/21 300	MICH MICKEO	Dioliii Doioley	reoran ameetii Piiciiic	Banana plantations in Portland and St		00%	31		manapeed from intere	TAX INDIA TATA (AAA)
	Aug/21 East	tern Ismaica	Hurricane Grace	North Eastern Pacific	Mary. Also other agricultural loss in St.		0 29%	. 20	. 23	NOAA: https://const.poss.gov/b	https://iis.gov.im/50m-for-banana-and-clantain-farmers-affected-by-grace/
H			Typhoon Imbudo / Haruro	North Western Pacific	San Mariano	9	0 98%	4 4	6 41	NOAA: https://coast.noaa.gov/h	Hugen, M. G., & Jens, I. C. (2006) Socio-Economic Impact of Super Typhoon
ŀ	Jul/03 Phil Mar/21 Aus	tralia	Cyclone Niran	South Pacific	Far North Queensland coast	2	5 90%	6 36		Windspeed from article	https://www.theguardian.com/australia-news/2021/mar/03/cyclone-niran-wipes-out-https://www.tfmet.org/1/2021/12/australia-t-niran-impacted-banana-farms-nearing-full-orgotuction-after-orida-disaster-assistance-boost/
- 1	Mar/06 Aus		TC Larry	South Pacific	Oueensland	10	0 85%				https://link.sprinder.com/chapter/10.1007/978-94-007/7289-4 14
H		thern Mexico	Hurricane Grace	North Eastern Pacific	Veracruz, Tecolutla	10	0 100%			Windspeed from article	https://www.penser.news/2018/83/htm/scare-doze-ews/aes-communities-in-verseruz-
- 1					no specific location, but region small				1		
	Aug/07 Mar	rtinique	Hurricane Dean	North Atlantic	enough to check cyclone track	9	0 100%	6 40	6 41	Windspeed from article	https://www.reuters.com/article/us-storm-dean-bananas-idUSL1861011420070818

Country	Cyclone	%destroyed	(m/s)
Dominican republic	Hurricane Isaac	10%	23
Eastern Jamaica	Hurricane Grace	29%	23
Dominican Republic	Storm Erika	40%	16
Southern Mexico	Storm Dolores	60%	27
Dominican Republic	Hurricane Irma	60%	41
Queensland	Cyclone Yasi	75%	36
Dominica	Storm Erika	80%	18
Honduras	Hurrican Eta	82%	14
Jamaica	Hurricane Sandy	85%	34
Australia	TC Larry	85%	45
Australia	Cyclone Niran	90%	34
Guadalope	Hurricane Dean	90%	45
Puerto Rico	Hurricane Fiona	90%	34
Philipines	Typhoon Imbudo / Harurot	98%	41
Honduras	Hurricane Mitch	100%	71
Martinique	Hurricane Dean	100%	36
Martinique	Hurricane Dean	100%	41
Dominica	Hurricane David	100%	44
Southern Mexico	Hurricane Grace	100%	45
The Philippines	Typhoon Pablo (Bopha)	100%	68
Jamaica	Hurricane Gilbert	100%	72
Jamaica	Hurricane Allen	100%	75

Windspeed interval Average damage	Saff	ir Simpso Dai	mage level
0-10	0%	No	No Damage
10-25	48%	No	Severe damage
26-43	84%	1-3	Major damage
44>	96%	3-5	Complete