Mapping indicators for nature-based solutions cropland exposed to high, medium, low flood in Con Cuong, Viet Nam (2017-2021)

Food and Agriculture Organization of the United Nations

Source: United Nations. 2020. Map of the world [online]. [Cited July 2022]

Cropland exposed to flooding frequency (low, medium and high) was calculated in Con Cuong district of Viet Nam to assess the potential impact of flood on cropland and agriculture production for the period 2017-2021. Flooding frequency was calculated using a change detection approach for the period 2017-2021 on Sentinel-1 (SAR) data and overlaid with crop mask (2021). The results were obtained at 10m spatial resolution.

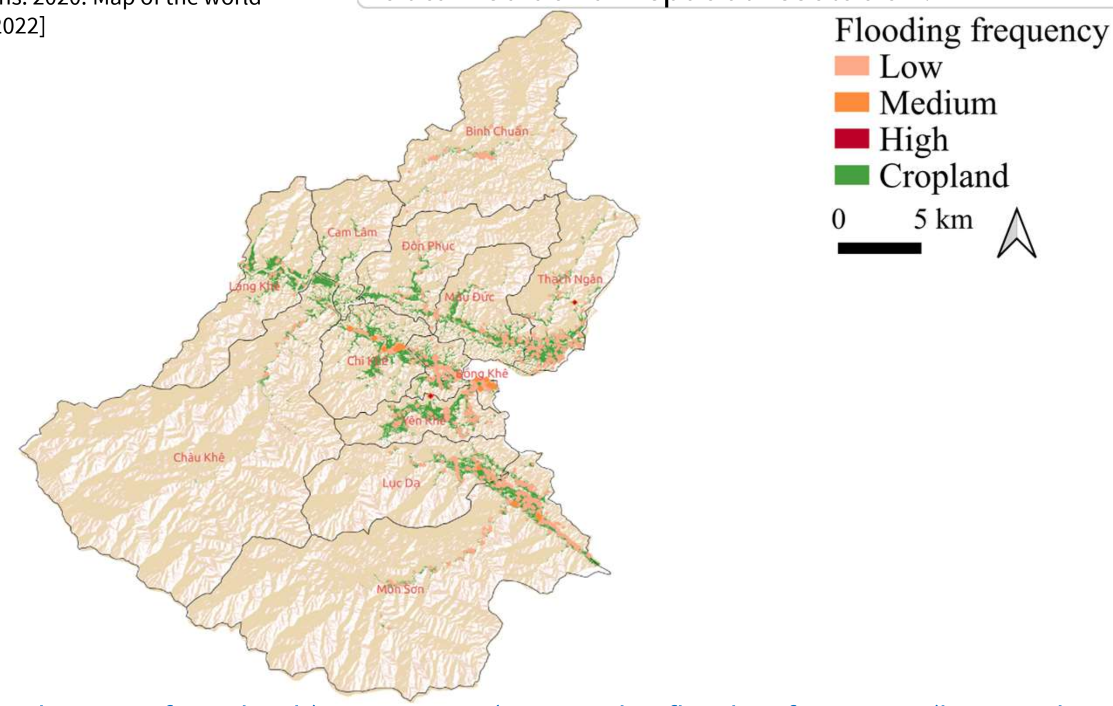

Figure 1: Spatial extent of cropland (in 10m x 10m) exposed to flooding frequency (low, medium and high) for the period 2017-2021 in Con Cuong district of Viet Nam[1]

Table 1: Extent of cropland exposed to flooding frequency (low, medium and high) in Con Cuong district

	Townlets	Flooded Cropland (ha) Low	Medium	High	Total (ha)	Percent
Top four	Mon Son	61.6	0.3	0.0	61.9	5.2
	Bong Khe	58.7	0.9	0.0	59.6	8.5
	Chi Khe	32.3	2.2	0.0	34.4	3.5
	Yen Khe	24.0	0.3	0.1	24.4	2.3
Bottom four	Cam Lam	0.1	0.0	0.0	0.1	0.0
	Con Cuong	2.5	0.0	0.0	2.5	6.3
	Chau Khe	3.0	0.0	0.0	3.0	0.7
	Lang Khe	3.2	0.0	0.0	3.2	0.5

Key Findings

- During the period 2017-2021, the total flooded cropland area is 259ha which represents 3% of the total cropland area.
- Most affected townlets by flooded cropland are Mon Son, Bong Khe, Chi Khe and Yen Khe.

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[1] GADM. The boundaries and names shown, and the designations used on these map(s) do not express any opinion whatsoever on the part of FAO concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers and boundaries. Dashed lines on maps represent approximate border lines for which there may not yet be full agreement.