Mapping indicators for nature-based solutions net primary productivity in Thanh Chuong, Viet Nam (2021)

To measure the land degradation (SDG 15.3.1) in Thanh Chuong district of Viet Nam, annual net primary productivity (NPP) (input data to SDG 15.3.1) of 2021 was obtained from MODIS. The data were obtained at 500m spatial resolution and aggregated into Thanh Chuong townlets for comparative assessment.
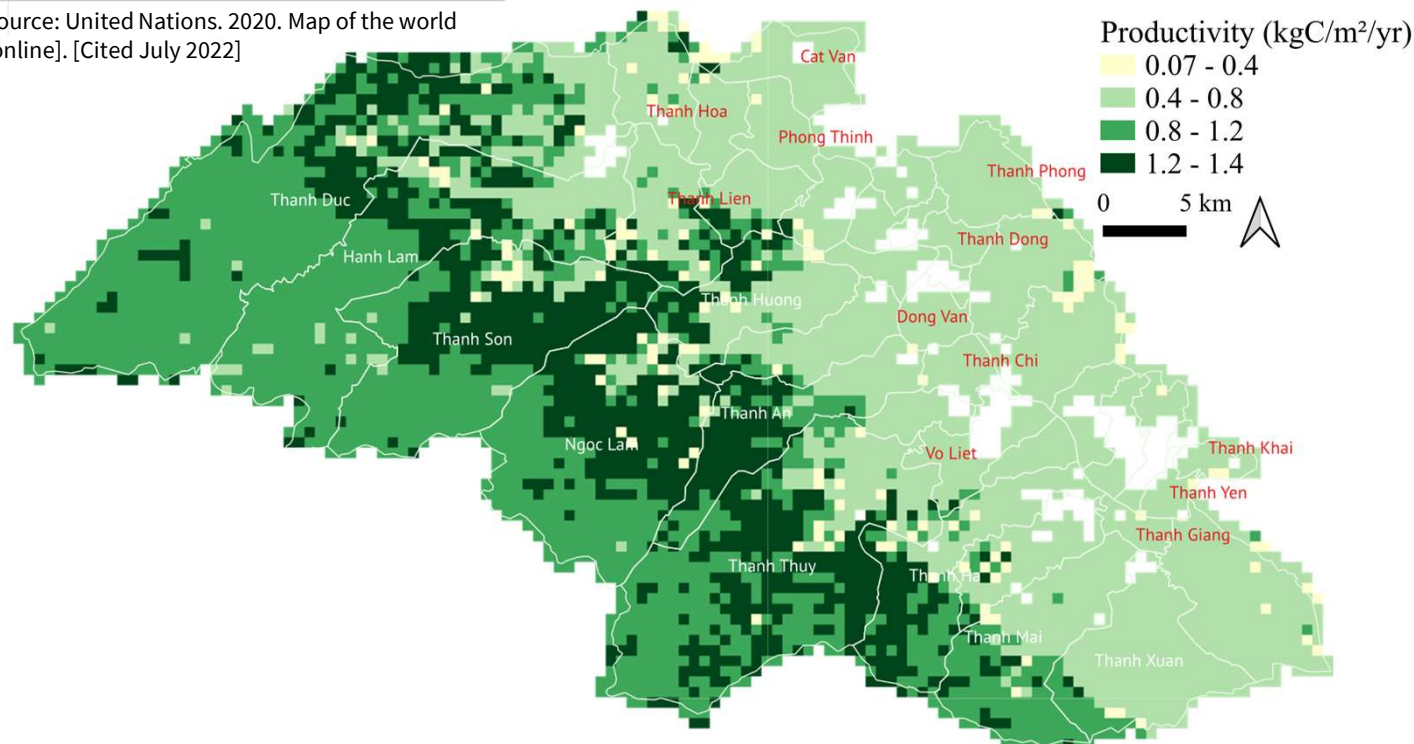
Source: United Nations. 2020. Map of the world [online]. [Cited July 2022]

Figure 1: Spatial extent of annual net primary productivity for 2021 (500m x 500m grid) in Thanh Chuong, Viet Nam[1]

Table 1: Average annual net primary productivity for 2021 in Thanh Chuong

	Townlets	Land area (thousand ha)	Mean (kgC/m²/yr)	Range (kgC/m²/yr) Min.	Range (kgC/m²/yr) Max.	Total (Gg C/yr)
Top four	Cat Van	16.3	1.1	0.3	1.3	175.5
	Dong Van	11.8	1.1	0.3	1.3	135.7
	Hanh Lam	9.9	1.1	0.3	1.3	105.1
	Ngoc Lam	8.8	1.2	0.3	1.4	102.7
Bottom four	Xuan Tuong	0.2	0.3	0.5	0.7	0.7
	Vo Liet	0.3	0.4	0.4	0.5	1.1
	Thanh Yen	0.5	0.4	0.4	0.6	2.3
	Thanh Xuan	0.6	0.4	0.4	0.7	2.6

Key Findings

Net primary productivity (NPP) in Thanh Chuong district:
- Land area (ha): 112 263,
- Density (kgC/m²/yr): 0.7,
- Range (kgC/m²/yr): 0.07 – 1.4,
- Total NPP (Tg): 1.04.