File name original source

In-situ crop type data for the Terai region of Nepal for 2022-2023 winter season (https://data.cimmyt.org/dataset.xhtml?persistentId=hdl:11529/10548989)

Mapping

Attributes "crop" and "specify__1" were first merged into a combined attribute "original_label". The mapping was done based on this new attribute:

Original name	EWOC_CODE	Description
Apple and Orange	12-01-00-000-0	fruit_nuts
banana	12-01-02-002-0	Bananas plantains
Banana	12-01-02-002-0	bananas_plantains
barley	11-01-02-000-0	Unspecified barley
Beans	11-05-01-001-0	beans
Bean	11-05-01-001-0	beans
Brijal	11-03-01-002-0	aubergine_eggplant
Brinjal	11-03-01-002-0	aubergine_eggplant
buckwheat	11-02-00-002-0	buckwheat
Cabage	11-03-06-000-0	brassica_oleracea_cabbage
Cabbage	11-03-06-000-0	brassica_oleracea_cabbage
Carrots	11-03-09-004-0	carrots_daucus
Cauliflower and Cabbage	11-03-06-000-0	brassica_oleracea_cabbage
Cauliflower	11-03-06-004-0	cauliflower
Cauliflowers	11-03-06-004-0	cauliflower
Chilli	11-03-03-008-0	chili_pepper
Chilly	11-03-03-008-0	chili_pepper
Coriander	11-09-00-016-0	Coriander
Cucumber	11-03-02-001-0	cucumber_pickle
Dragon fruit	12-01-02-009-0	dragon_fruit
dry_fallow_land	11-15-00-000-0	Not cultivated fallow
Garlic	11-03-11-002-0	garlic
gram	11-05-01-004-0	Chick peas
grassland	20-01-00-000-0	unspecified grassland
Hawkweed	11-10-00-062-0	hawkweed
Jaai ghaas	11-11-01-016-0	wild_oat
Jaai Ghaas	11-11-01-016-0	wild_oat
Jaaighaas	11-11-01-016-0	wild_oat
Jahi Ghaas	11-11-01-016-0	wild_oat
Jai ghaas	11-11-01-016-0	wild_oat
Jai ghass	11-11-01-016-0	wild_oat
Lady finger	11-03-01-003-0	okra
lentil	11-05-00-003-0	lentils
linseed	11-06-00-007-0	linseed

maize	11-01-06-000-0	maize
Maize and Beans	11-14-06-001-0	maize_mixed_with_beans/peas
Maize and Mustard	11-14-06-004-0	maize_mixed_with_oilseeds
Mango	12-01-02-004-0	mangoes
Mustard	11-06-00-008-0	mustard
mustard_lentil	11-14-04-000-0	oilseeds_mixed_with
Musterd	11-06-00-008-0	mustard
Oats	11-01-04-000-0	unspecified_oats
Onion	11-03-11-004-0	Onions
Orange	12-01-03-004-0	Oranges
other	10-00-00-000-0	Cropland unspecified
Paddy	11-01-08-000-0	rice
Pasture	20-01-02-001-0	pastures
pea	11-05-01-002-0	peas
pigeon_pea	11-05-01-006-0	Pigeon peas
Potato	11-07-00-001-0	potatoes
Pumpkin	11-03-02-004-0	pumpkin_squash_gourd
Pumpkin and Cabbage	11-03-00-000-0	vegetable_fruits
Raddish	11-03-09-006-0	radish
shrub_tree	17-00-00-000-0	not cropland, maybe perennial
Spinach	11-03-08-008-0	Spinach
sugarcane	11-11-01-010-0	Sugar cane
Sunflower	11-06-00-001-0	Sunflower
Tamato	11-03-01-001-0	Tomato
Tomato	11-03-01-001-0	Tomato
Tomato and Beans	11-14-03-000-0	vegetables_mixed_with
Tomato and cabbage	11-14-03-000-0	vegetables_mixed_with
Tomato and Cauliflower	11-14-03-000-0	vegetables_mixed_with
Tomato and Cucumber	11-14-03-000-0	vegetables_mixed_with
vegetable	11-03-00-000-0	Vegetables fruits
weedy_fallow_land	11-15-00-000-0	Not cultivated fallow
weedy_fallow_landweedy_fallow_land	11-15-00-000-0	Not cultivated fallow
Wetland	20-02-00-000-0	wetlands
wheat	11-01-01-000-1	unspecified_winter_wheat
Wheat and maize	11-14-06-007-0	maize_mixed_with
wheat_mustard	11-14-01-004-0	cereal_mixed_with_oilseeds

Validity time

The observation data, including the time of observation was derived from the dataset (attribute start). All observations took place between 30/03/2023 and 19/04/2023.

Irrigation status

No information on irrigation (IRR = 0)

Filtering

No filtering was made in the dataset.

Geometry transformations

No geometry transformation was necessary as the geometry already was EPSG:4326 (WGS84).

Spatial accuracy

Cropland polygons overlapping roads were checked. 117 cases were identified and removed.

From the cropland data set 51 observations were randomly selected and their location was checked against satellite images (Google Earth) to ascertain if cropland observations correspond to actual land use, thus located within a field and not on a field boundary or overlapping with physical infrastructure etc. 6 observations (11.76%) were found suspicious. Resulting in Case 2: Expert evaluated samples of clead data show issues (between 10-25%).

Confidence score

Confidence score is 84 for crop type.

FieldObservationSurvey / Windshield (at dataset level)				
Quality Category	**Description**	**Score & Reduction factor**	**Weight (%)**	**Total Score**
Geometry (spatial accuracy based on GPS)	GPS accuracy 0-10 m	100	40	24
Geometry (spatial context analysis by benchmarking against non-arable spatial features e.g., roads, water bodies, railway, buildings, nature areas etc.)	Case 2: Evaluated samples of cleaned data show issues (between 10-25%)	0.4		
Level of accuracy of time	Real date	100	35	35
Validation applied	Yes	100	25	25
Grand Total Confidence Score				84

Confidence score is 84 for landcover.

FieldObservationSurvey / Windshield (at dataset level)				
Quality Category	**Description**	**Score & Reduction factor**	**Weight (%)**	**Total Score**
Geometry (spatial accuracy based on GPS)	GPS accuracy 0-10 m	100	40	24
Geometry (spatial context analysis by benchmarking against non-arable spatial features e.g., roads, water bodies, railway, buildings, nature areas etc.)	Case 2: Evaluated samples of cleaned data show issues (between 10-25%)	0.4		
Level of accuracy of time	Real date	100	35	35
Validation applied	Yes	100	25	25
Grand Total Confidence Score				84