

Appendix A

Supplementary methods

We compared our pasture product to a number of independent region and country products as shown below (Figure A2). The map for Australia is the Land Use of Australia 2015-2016 at 250m resolution and was modeled based on Advanced Very High Resolution Radiometer (AVHRR) satellite imagery and 2015-2016 census data using a Markov Chain Monte Carlo algorithm (ABARES, 2022). The map for Brazil is a 2015 land use map produced by MapBiomas at 30m resolution, using Landsat 8 satellite imagery and random forest classification (Parente et al., 2017), and was found to have an overall accuracy of 87%. The map for Europe is a 30m map of pastures for 2015, based on LUCAS (Land Use and Coverage Area frame Survey) and CLC (CORINE Land Cover) maps via a spatiotemporal ensemble machine learning (Witjes et al., 2022). The reference map for the USA is a combination of the National Land Cover Database map for 2011 (USGS, 2011) which is based on Landsat imagery, multi-source training data and a decision tree-based classification algorithm; and the USDA rangelands map (Reeves and Mitchell, 2011), both 30m resolution. We combined these two maps for the USA because our subnational data combines data from the census (grassland pasture and range in farms) with data from the Bureau of Land Management (grassland pasture and range not in farms).

15 Supplementary references

ABARES: Land use of Australia 2010–11 to 2015–16, 250 m, Australian Bureau of Agricultural and Resource Economics and Sciences [dataset], 2022.

20 Parente, L., Ferreira, L., Faria, A., Nogueira, S., Araújo, F., Teixeira, L., and Hagen, S.: Monitoring the brazilian pasturelands: A new mapping approach based on the landsat 8 spectral and temporal domains, *Int. J. Appl. Earth Obs. Geoinformation*, 62, 135–143, <https://doi.org/10.1016/j.jag.2017.06.003>, 2017.

Reeves, M. C. and Mitchell, J. E.: Extent of Coterminous US Rangelands: Quantifying Implications of Differing Agency Perspectives, *Rangel. Ecol. Manag.*, 64, 585–597, <https://doi.org/10.2111/REM-D-11-00035.1>, 2011.

USGS: National Land Cover Database (NLCD), 2011.

25 Witjes, M., Parente, L., van Diemen, C. J., Hengl, T., Landa, M., Brodsky, L., Halounova, L., Krizan, J., Antonic, L., Ilie, C. M., Craciunescu, V., Kilibarda, M., Antonijevic, O., and Glusica, L.: A spatiotemporal ensemble machine learning framework for generating land use / land cover time-series maps for Europe (2000 – 2019) based on LUCAS, CORINE and GLAD Landsat, <https://doi.org/10.21203/rs.3.rs-561383/v3>, 2022.

Supplementary figures

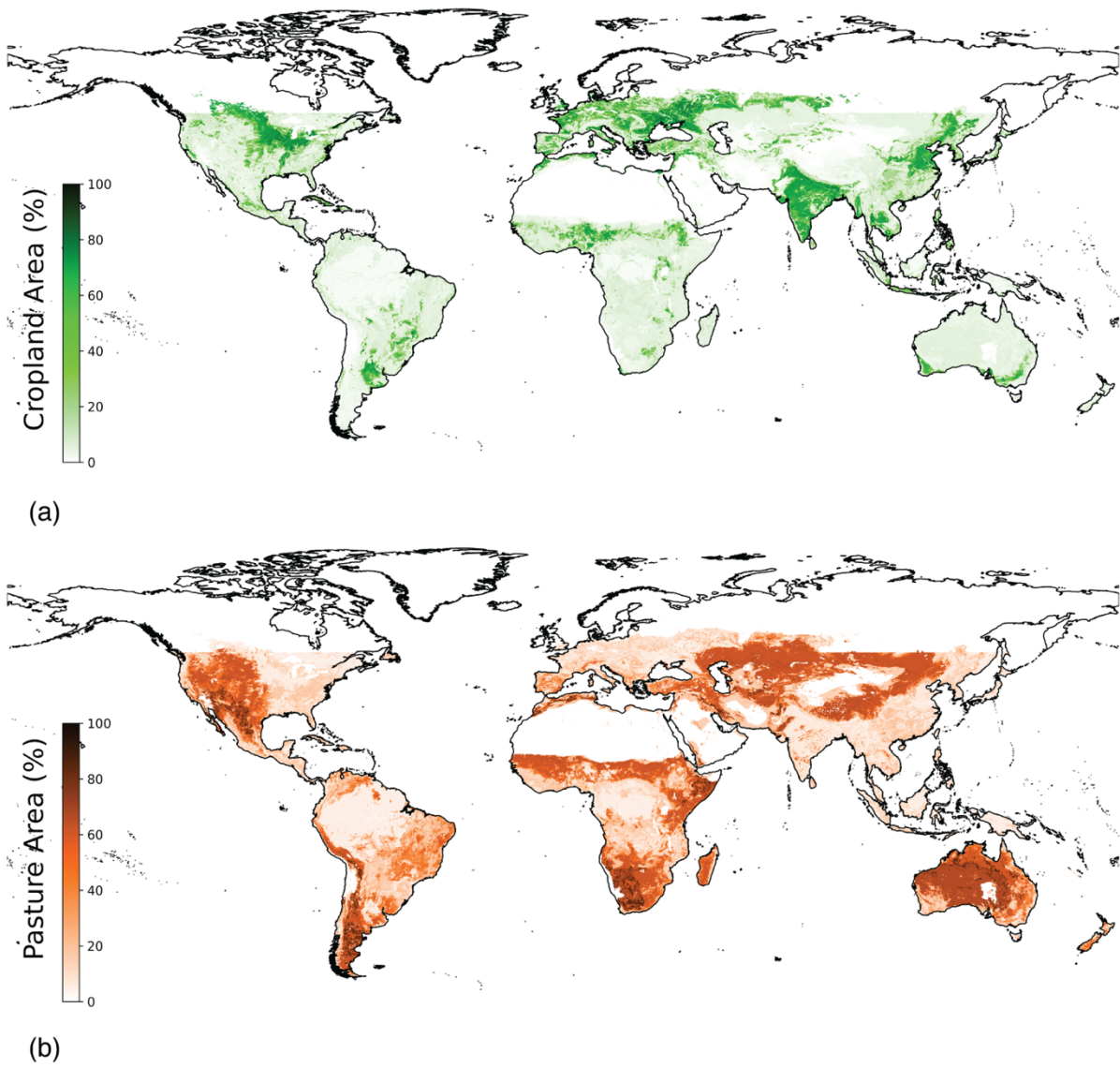


Figure A1. (A) Cropland and (B) Pasture final product at iteration 0

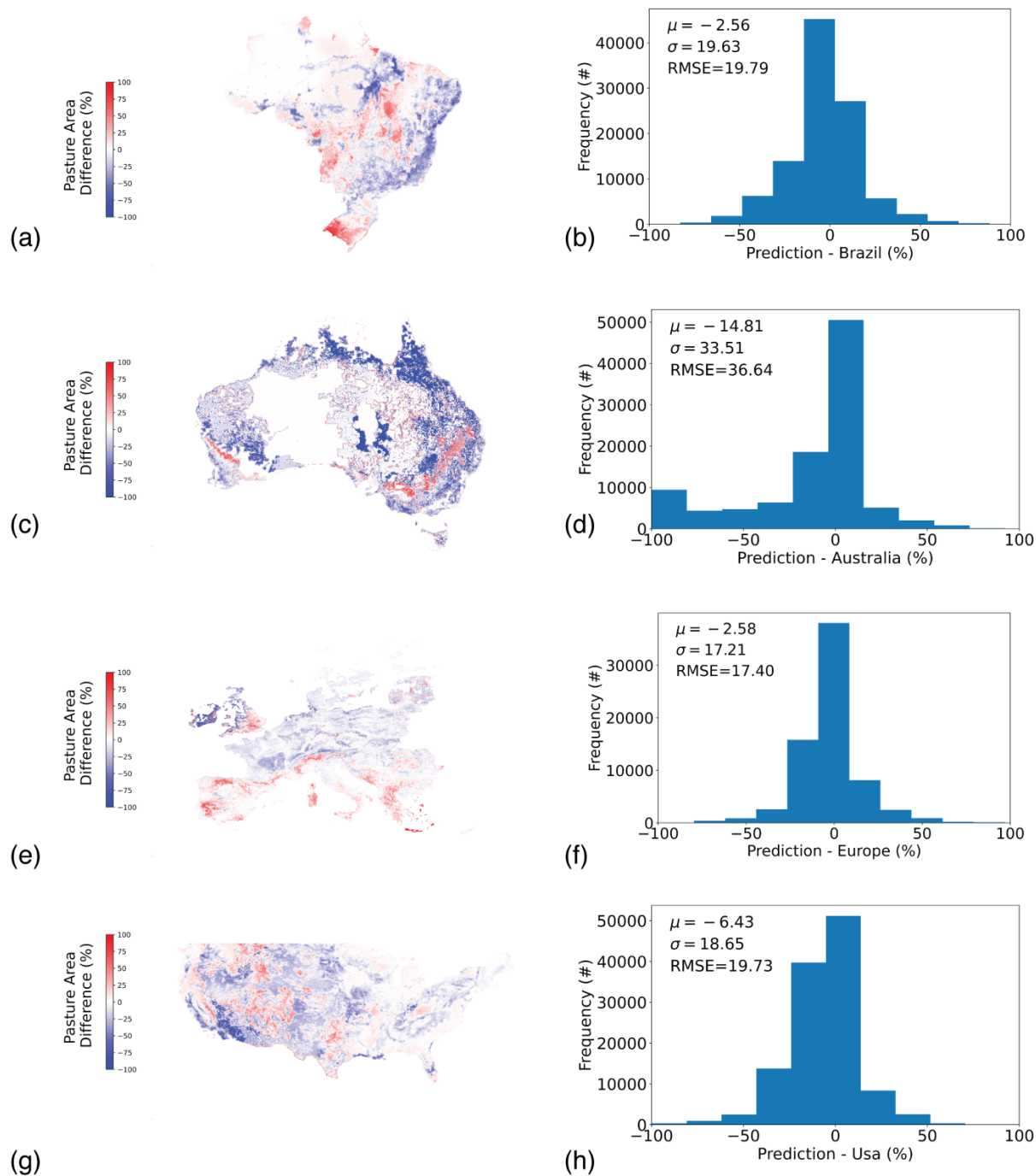


Figure A2. Pasture map intercomparisons against (A) Brazil, (C) Australia, (E) Europe, (G) USA; Histogram of errors for (B) Brazil, (D) Australia, (F) Europe, (H) USA

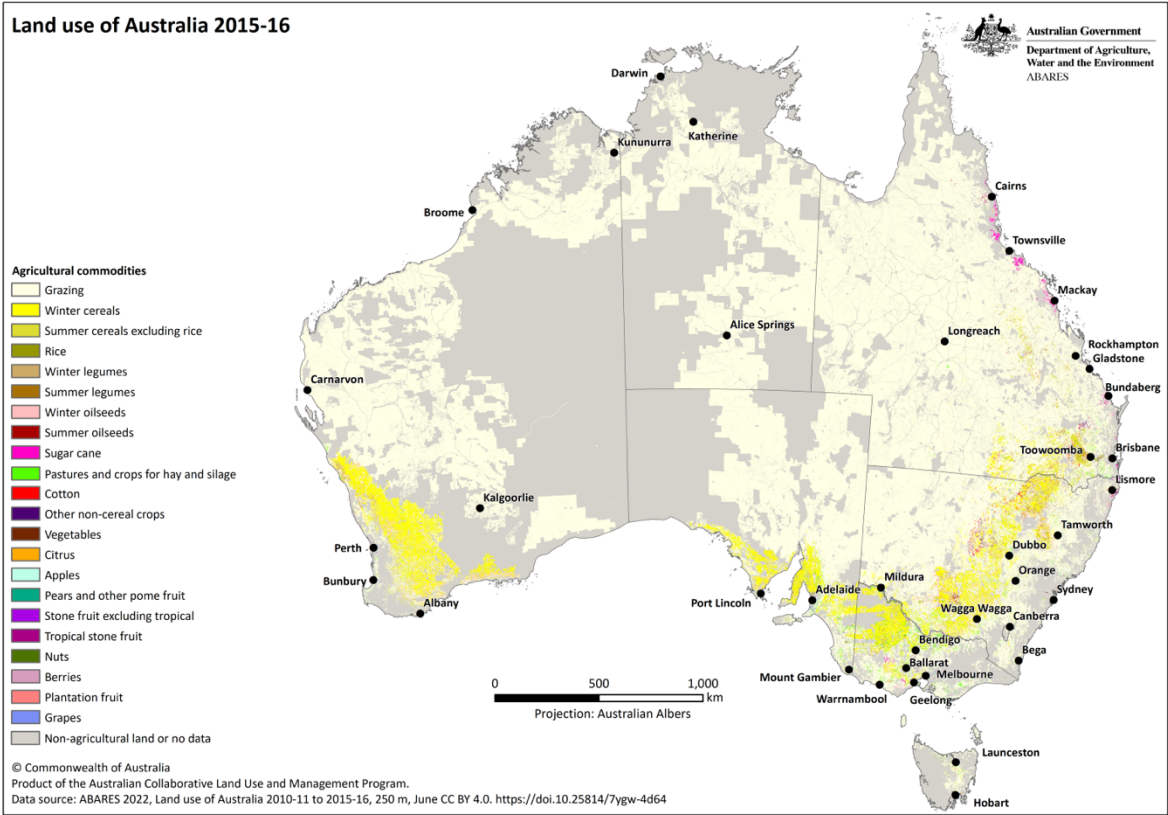


Figure A3. ABARES land use map used in this study for Australia mask creation.

Supplementary tables

Table A1. All countries for which we searched for subnational data. See main content for selection criteria for this list.

Country	Subnational units	Year	Institution	Source report	Source file/table	Source link	Data link	Cropland term	Pasture term	Units	Quality	Included in model training?	Notes
Algeria	-	2010-2011	Office Nationale des Statistiques	Recensement Economique 2011	-	https://www.ons.dz/sip.php?rubrique4	https://www.ons.dz/IMG/pdf/agric07-11-24.pdf	-	-	-	-	No	Data available, but excluded because it is not subnational.
Angola	-	-	National Institute of Statistics	-	-	-	-	-	-	-	-	No	Data not available. 2018-2019 census attempted but not yet completed.
Argentina	23	2018	Instituto Nacional de Estadística y Censos	Censo Nacional Agropecuario 2018	Table 3.4	https://cna2018.indec.gob.ar/informe-de-resultados.html	https://cna2018.indec.gob.ar/informe-de-resultados.html	Original: superficie implantada. Translation: cropped area	Original: pastizales. Translation: pastures	hectares	Good	Yes	-
Australia	7	2016-2017	Australian Bureau of Statistics	Land Management and Farming in Australia 2016-2017	File 4627 0DO 002_ 2016 17	https://www.abs.gov.au/	https://www.abs.gov.au/statistics/industry/agriculture/land-management-and-farming	land mainly used for crops	land mainly used for grazing	hectares	Good	Yes	-

							australia/latest-release							
Austria	9	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-	
Belgium	11	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-	

Brazil	27	2017	Instituto Brasileiro de Geografia e Estatística	Censo Agro 2017	Table 6881	https://sidra.ibge.gov.br/tabela/6881/#resultado	Original: pastagens naturais, pastagens plantadas em boas condições, pastagens plantadas em más condições. Original: lavouras permanentes, lavouras temporárias. Translation: permanent crops, temporary crops	Original: pastagens naturais, pastagens plantadas em boas condições, pastagens plantadas em más condições. Translated: natural pastures, pastures planted in good condition, pastures planted in poor condition.	hectares	Good	Yes	-
Bulgaria	6	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN__custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

Canada	12	2016	Statistics Canada	2016 Census of Agriculture	Table 32-10-0406-01	http://www.statcan.gc.ca/start-debut-eng.html	https://www150.statcan.gc.ca/t1/tbl1/en/tv.action?pid=3210040601	land in crops excluding Christmas tree area, summer fallow land	natural land for pasture, tame or seeded pasture	hectares	Good	Yes	-
Chad	-	-	Institut National de la Statistique, des Etudes Economiques et Démographiques	-	-	-	-	-	-	-	-	No	Data not available. First census beginning.
China	31	2015	National Bureau of Statistics of China	China Statistical Yearbook 2017	Table 8-23 (cropland); Table 8-27 (pasture)	http://www.stats.gov.cn/english/	https://www.stats.gov.cn/sj/n dsj/2016/index eh.htm	area of cultivated land	area of grassland	kilo-hectares	Good	Yes	-
Croatia	2	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN__custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

Cyprus	1	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Czechia	8	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Democratic Republic of the Congo	-	-	National Institute of Statistics	-	-	-	-	-	-	-	No	Data not available. Most recent census was in 1990.
Denmark	5	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

							5437/default/table?lang=en						
Ethiopia	10	2014-2015	Central Statistical Agency	Agricultural Sample Survey 2014-2015	Table 1	https://www.statethiopia.gov.et/agriculture-2/	https://www.statethiopia.gov.et/wp-content/uploads/2019/06/Agricultural-Sample-Survey-Land-Utilization-Meher-Season-2015.pdf	all crop area, fallow land	grazing land	hectares	Good	Yes	-
Estonia	1	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_259_5437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Finland	5	2016	Eurostat	Main farm land use by	EF_LUS_MAIN	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_259_5437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

				NUTS 2 regions		ain/home	ew/EF_LUS_MAIN_custom_2595437/default/table?language=en						
France	26	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?language=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Germany	38	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?language=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Greece	13	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?language=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

							MAIN _custo m_259 5437/d efault/t able?la ng=en						
Hungary	7	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_L US_ MAI N	https:// ec.europa.eu/eurostat/ web/main/home	https:// ec.europa.eu/eurostat/ databro wser/vi ew/EF_ LUS_ MAIN_ _custo m_259 5437/d efault/t able?la ng=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
India	36	2019	Department of Agriculture, Cooperation and Farmer's Welfare	At A Glance 2019	Table 13.5	https:// eands.d ia.gov.i n/PDF/ At%20 a%20G lance% 202019 %20En g.pdf	land under misc. tree crops & groves not incl. in net area sown + net area sown + fallow land (total)	permanent pastures & other grazing lands	thous and hectares	Good	Yes	-	
Indonesia	34	2013	Indonesian Central Bureau of Statistics	2013 Agricultural Census	-	https:// www.b ps.go.i d/	https:// st2013. bps.go. id/dev2 /index. php/sit e/tabel? tid=66 &wid= 110000	[sum across Planted area of rice and palawija, horticultural crops and	-	squares	Poor	No	Data spread across multiple tables (one for each: food crops, horticulture, plantations). Does not account for

							0000&lang=id	plantations]					fallow or multiple cropping. Crop list not comprehensive.
Ireland	2	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Italy	21	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Kazakhstan	14	2006-2007	Agency of the Republic of Kazakhstan on Statistics	Agriculture in Kazakhstan	-	https://stat.gov.kz/	https://stat.gov.kz/for_users/national/agriculture2006_2007	agricultural grounds - arable land	agricultural grounds - pastures	thousand hectares	Good	Yes	-

Latvia	1	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI_N	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_259_5437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Lithuania	1	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI_N	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_259_5437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Luxembourg	1	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI_N	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_259_5437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

Madagascar	-	2010	Institut de la Statistique	Enquête Périodique auprès des Ménages 2010	-	https://www.instat.mg/documents/upload/main/MINAGRI_Annuaire 2009-2010_20-12-2012.pdf	-	-	-	-	No	Data not available. Only contains area of a few crops.	
Mali	-	2015	Institut de la Statistique	Annuaire Statistique 2015	-	http://www.instat-mali.org/index.php/composant/content/article/11-accueil/wwwjs-c-53.html	https://www.instat-mali.org/laravel/filemanager/files/shares/pub/anuaire16_pub.pdf	-	-	-	-	No	Data not available. Only contains area of a few crops.
Malta	1	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

Mauritania	-	2015	Office National de la Statistique	Annuaire Statistique 2015	-	https://ons.mr/index.php/publications/statistiques	https://ansade.mr/fr/annuaire-statistiques-2015/	-	-	-	-	No	Data not available. Only contains area of a few crops.
Mexico	32	2007	National Institute of Statistics and Geography	Census of Agriculture, Livestock and Forestry 2007	File Tabulado_VIII_CAGyF_2	http://en.www.inegi.org.mx/programas/cagf/2007/default.htm#Tabular_datos/	http://en.www.inegi.org.mx/programas/cagf/2007/default.htm#Tabular_datos/	Original: superficie de labor. Translation: arable land	Original: con pastos no cultivados, de agostadero o enmontada. Translation: with non-cultivated pastures (different types)	hectares	Good	Yes	-
Mongolia	22	2015	National Statistics Office	Report on sown area of households and enterprises, year 2015	Table A-XAA-7	https://www.1212.mn/tables.aspx?tbl_id=DT_NS_O_1002_003_V1&S_OUM_select=all=1&S_OUM_SingleSelect=2015	https://www.1212.mn/tables.aspx?tbl_id=DT_NS_O_1002_003_V1&S_OUM_select=all=1&S_OUM_SingleSelect=2015	total sown area	-	hectares	Poor	No	Has total sown area, doesn't account for fallow

							&viewtype=table						
Morocco	-	2015-2016	Ministère de l'Agriculture, de la Pêche Maritime, du Développement Rural et des Eaux et Forêts	Campagne Agricole 2015-2016	-	https://www.agriculture.ma/	http://www.agriculture.gov.ma/pages/rapports-statistiques/campagne-agricole-2015-2016	-	-	-	-	No	Data not available. Only contains area of a few crops.
Mozambique	11	2009-2010	Instituto Nacional de Estatística	Censo Agro Pecuário 2009-2010	Table 1.2	http://www.ine.gov.mz/	https://mozdata.ine.gov.mz/index.php/catalog/37	Original: área cultivada . Translation: cultivated area	-	hectares	Poor	No	Glossary includes the word for pasture ("pastagem or pastagem") but does not contain a table with pasture area
Namibia	14	2013-2014	Namibia Statistics Agency, Ministry of Agriculture	Namibia Census of Agriculture 2013-2014	File S3_S9_land_use_area_measurement_anonym q0302	https://nsa.org.na/	https://microdata.fao.org/index.php/catalog/940	[sum across crops across households w/ hhwt]	[sum grazing land across households w/ hhwt]	hectares	Poor	No	Microdata: land use in variable q0302_land_use_code covers crops and grazing land. Values don't match summary in Table 3.3 of https://d3rp5jatom3eyn .

													cloudfront.net/cms/assets/documents/Namibia_Census_of_Agriculture_Commercial_Report2.pdf . NA for grazing land for several regions.
Netherlands	12	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-	
Niger	-	2014	Niger National Institute of Statistics	Annuaire Statistique 2012-2016	-	https://www.stat-niger.org/wp-content/uploads/2020/06/Annuaire_Statistique_2012-2016-2.pdf	-	-	-	-	No	Data not available. Only contains area of a few crops.	
Nigeria	37	2010-2012	National Bureau of	Agricultural Sector Data	-	https://www.nigerianstat.gov.ng/na	https://nigeria.opendataforafrica.org/	-	-	-	-	No	Data not available. Only contains

			Statist cs	2010- 2012		da/index.php/catalog/52	yktref/agricultural-sector							area of a few crops.
Pakista n	4	2010	Pakista n Bureau of Statisti cs	Agricultu ral Census 2010	-	https://www.pbs.gov.pk/sites/default/files/agriculture/publications/agricultural_census2010/Tables%20%28Pakistan%20-%20In%20Hectares%29.pdf	https://www.pbs.gov.pk/sites/default/files/agriculture/publications/agricultural_census2010/Tables%20%28Pakistan%20-%20In%20Hectares%29.pdf	farm area cultivate d	-	millio n hecta res	Poor	No	Data not available for pasture.	
Poland	16	2016	Eurosta t	Main farm land use by NUTS 2 regions	EF_L US_ MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/web/main/home	arable land + permane nt crops	permane nt grassland	hecta res	Good	Yes	-	
Portuga l	7	2016	Eurosta t	Main farm land use by	EF_L US_ MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/web/main/home	arable land + permane nt crops	permane nt grassland	hecta res	Good	Yes	-	

				NUTS 2 regions		ain/home	wser/view/EF_LUS_MAIN_custom_2595437/default/table?language=en						
Romania	8	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/web/main/home	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Russian Federation	83	2016	Federal State Statistical Service	2016 Russian Agricultural Census	-	https://eng.gks.ru/	https://rosreestr.gov.ru/activity/gosudarstvennoe-upravlenie-v-sfere-ispolzovaniya-i-okhrany-zemel/gosudarstvennyy-monitoring-zemel/sostoyan	Original: [subtract всего - пастбища]. Translated: [subtract Farmland total area - Farmland pasture]	Original: пастбища. Translated: pasture	thousand hectares	Good	Yes	-

							ie-zemel-rossii/gosudartvennyy-natsionalnyy-doklad-o-sostoyanii-i-ispolzovaniizemel-v-rossiyskoy-federatsii/						
Saudi Arabia	13	2015	General Authority for Statistics	Detailed Results of the Agriculture Census	File lzry_0; Table 94	https://www.stats.gov.sa/en/22	https://www.stats.gov.sa/en/22	permanent trees + date trees + open field vegetables + grain and feed + fallow + temporary meadows	permanent meadows	donum (1000 m2)	Good	No	Not included because of very large discrepancy with FAOSTAT values; see main text for justification
Slovenia	2	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI_N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custo_m_2595437/default/t	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

							able?lang=en						
Slovakia	4	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_L US_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/web/main/home	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Somalia	-	2014	National Bureau of Statistics	Population Estimation Survey of Somalia	-	https://nbs.gov.so/docs/Analytical_Report_Volume_5.pdf	https://nbs.gov.so/docs/Analytical_Report_Volume_5.pdf	-	-	-	-	No	Data not available.
South Africa	10	2017	Statistics South Africa	2017 Census of Commercial Agriculture	Table G	http://www.statssa.gov.za/publications/Report-11-02-01/Report-11-02-012017.pdf	http://www.statssa.gov.za/publications/Report-11-02-01/Report-11-02-012017.pdf	arable land	grazing land	hectares	Good	Yes	-
Spain	19	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_L US_MAI N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/web/main/home	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-

						ain/home	ew/EF_LUS_MAIN_custom_2595437/default/table?language=en						
Sudan	-	2008	Central Bureau of Statistics	-	-	-	-	-	-	-	-	No	Data not available.
Sweden	8	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAIN	https://ec.europa.eu/eurostat/databrowser/view/ew/EF_LUS_MAIN_custom_2595437/default/table?language=en	https://ec.europa.eu/eurostat/databrowser/view/ew/EF_LUS_MAIN_custom_2595437/default/table?language=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
Tanzania	22	2007-2008	National Bureau of Statistics	National Sample Census of Agriculture	Table 4.7 (smallholder); Table 3.2.1 (large scale)	https://www.bs.go.tz/statistics/topic/agriculture-census-2007-2008/	https://www.bs.go.tz/statistics/topic/agriculture-census-2007-2008/	[sum across Area under Temporary/Permanent Mono/Mixed Crops + Area under Permanent/Annual Mix + Fallow]	area under pasture	hectares	Good	Yes	Note: data is disaggregated into small-scale and large scale, need to sum across both tables

Turkey	81	2015	Turkish Statistical Institute	Annual Statistics 2015	-	https://data.tuik.gov.tr/	https://biruni.tuik.gov.tr/bolgeselista/tistik/anaSayfa.do?dil=en	total arable land and land under permanent crops	-	hectares	Good	No	Data not available for pasture.
Uganda	14	2018	Uganda Bureau of Statistics	Annual Agricultural Survey	-	https://www.ubos.org/publications/statistica/	https://uganda.opendataforafrica.org/zfafxee/agricultural-household-characteristics-in-uganda-at-sub-region-level-aas-2018	total crop area	-	hectares	Good	No	Data not available for pasture.
Ukraine	24	2015	State Statistics Service of Ukraine	Agriculture of Ukraine	Table 9.22 & 9.23	https://ukrstat.ua/en	http://www.ukrstat.gov.ua/druk/publkat/publ4_e.htm	arable land	agricultural land - arable land	thousand hectares	Good	Yes	Cropland = Arable land is not perfect because it excludes perennial crops; Pasture = Agricultural land - Arable land is not perfect because it includes hayfields. But there is no data available at

													regional level that can resolve this.
United Kingdom	42	2016	Eurostat	Main farm land use by NUTS 2 regions	EF_LUS_MAI_N	https://ec.europa.eu/eurostat/web/main/home	https://ec.europa.eu/eurostat/databrowser/view/EF_LUS_MAIN_custom_2595437/default/table?lang=en	arable land + permanent crops	permanent grassland	hectares	Good	Yes	-
United States of America	52	2017	National Agricultural Statistics Service; United States Department of Agriculture	2017 Census of Agriculture (cropland); USDA ERS Major Land Uses (pasture)	-	https://www.nass.usda.gov/results/672B19BC-9CA0-31C9-87EA-CF2003B77557(cropland) ; https://www.ers.usda.gov/data-products/major-land-uses/major-land-uses/	https://quickstats.nass.usda.gov/results/672B19BC-9CA0-31C9-87EA-CF2003B77557(cropland)	cropland	Grassland and other nonforested pasture and range in farms plus estimates of open or nonforested grazing lands not in farms	acres	Good	Yes	-

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