

Table S1: The sources of agricultural statistical data in all countries.

| Country | Source |
|-----------------|---|
| Afghanistan | https://invest.gov.af/ |
| Albania | http://www.instat.gov.al/ |
| Argentina | https://datosestimaciones.magyp.gob.ar/reportes.php?reporte=Estimaciones |
| Australia | https://www.agriculture.gov.au/abares |
| Austria | https://www.statistik.at/ |
| Azerbaijan | https://www.stat.gov.az/source/agriculture/?lang=en |
| Brazil | https://www.ibge.gov.br/en/statistics/full-list-statistics.html |
| Belgium | https://statbel.fgov.be/de |
| Bulgaria | https://www.agrostat.bg/ISASPublic/Crops |
| China | https://www.stats.gov.cn/sj/ |
| Croatia | https://dzs.gov.hr/ |
| Czechia | https://www.czso.cz/csu/czso |
| Denmark | https://www.dst.dk/en/Statistik |
| Estonia | https://www.stat.ee/ |
| Finland | www.stat.fi/index_en.html |
| France | https://agreste.agriculture.gouv.fr/agreste-web/accueil/ |
| Germany | https://www.statistik-nord.de/ |
| Greece | https://www.statistics.gr/en/home/ |
| Hungary | https://www.ksh.hu/?lang=en |
| India | https://aps.dac.gov.in/APY/Public_Report1.aspx |
| Iran | https://irandataportal.syr.edu/socio-economic-data/statistical-yearbook |
| Iraq | https://cosit.gov.iq/ar/ |
| Ireland | https://data.cso.ie/ |
| Italy | https://www.istat.it/en/ |
| Kyrgyzstan | http://stat.kg/en/ |
| Latvia | https://stat.gov.lv/en |
| Lithuania | https://osp.stat.gov.lt/ |
| Montenegro | www.monstat.org/eng/index.php |
| Morocco | https://www.hcp.ma/ |
| Nepal | https://moald.gov.np/ |
| Netherlands | https://www.cbs.nl/en-gb |
| North Macedonia | https://www.stat.gov.mk/Default_en.aspx |
| Norway | www.ssb.no/english/ |
| Pakistan | https://www.pbs.gov.pk/ |
| Poland | Statistical Office in Białystok / Publications |
| Portugal | www.ine.pt/xportal/xmain?xpid=INE&xpgid=ine_main |
| Romania | http://statistici.insse.ro:8077/tempo-online |
| Russia | https://rosstat.gov.ru/ |
| Serbia | https://www.stat.gov.rs |
| Slovakia | https://slovak.statistics.sk/wps/portal/ext/home |

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|----------------|---|
| Slovenia | https://www.stat.si/statweb/en/home |
| Spain | https://www.ine.es/en/index.htm |
| Sweden | www.scb.se/en/ |
| Switzerland | https://www.bfs.admin.ch/bfs/de/home.html |
| Turkey | https://www.tuik.gov.tr/ |
| Ukraine | https://statzvit.ukrstat.gov.ua/ |
| United Kingdom | https://www.gov.uk/ |
| United States | https://www.nass.usda.gov/ |
| Other counties | https://www.fao.org/home/en/ |

Table S2: The abbreviations of countries in the study area.

| Number | Country | Abbreviation |
|--------|------------------------|--------------|
| 1 | Afghanistan | AFG |
| 2 | Albania | ALB |
| 3 | Algeria | DZA |
| 4 | Argentina | ARG |
| 5 | Australia | AUS |
| 6 | Austria | AUT |
| 7 | Azerbaijan | AZE |
| 8 | Bangladesh | BGD |
| 9 | Brazil | BRA |
| 10 | Belarus | BLR |
| 11 | Belgium | BEL |
| 12 | Bosnia and Herzegovina | BIH |
| 13 | Bulgaria | BGR |
| 14 | China | CHN |
| 15 | Croatia | HRV |
| 16 | Czechia | CZE |
| 17 | Denmark | DNK |
| 18 | Egypt | EGY |
| 19 | Estonia | EST |
| 20 | Ethiopia | ETH |
| 21 | Finland | FIN |
| 22 | France | FRA |
| 23 | Germany | DEU |
| 24 | Greece | GRC |
| 25 | Hungary | HUN |
| 26 | India | IND |
| 27 | Iran | IRN |
| 28 | Iraq | IRQ |
| 29 | Ireland | IRL |

| | | |
|----|----------------------|-----|
| 30 | Italy | ITA |
| 31 | Kyrgyzstan | KGZ |
| 32 | Latvia | LVA |
| 33 | Libya | LBY |
| 34 | Lithuania | LTU |
| 35 | Mexico | MEX |
| 36 | Moldova | MDA |
| 37 | Montenegro | MNE |
| 38 | Morocco | MAR |
| 39 | Nepal | NPL |
| 40 | Netherlands | NLD |
| 41 | North Macedonia | MKD |
| 42 | Norway | NOR |
| 43 | Pakistan | PAK |
| 44 | Paraguay | PRY |
| 45 | Poland | POL |
| 46 | Portugal | PRT |
| 47 | Romania | ROU |
| 48 | Russia | RUS |
| 49 | Serbia | SRB |
| 50 | Slovakia | SVK |
| 51 | Slovenia | SVN |
| 52 | South Africa | ZAF |
| 53 | Spain | ESP |
| 54 | Sudan | SDN |
| 55 | Sweden | SWE |
| 56 | Switzerland | CHE |
| 57 | Syrian Arab Republic | SYR |
| 58 | Tajikistan | TJK |
| 59 | Tunisia | TUN |
| 60 | Turkey | TUR |
| 61 | Turkmenistan | TKM |
| 62 | Ukraine | UKR |
| 63 | United Kingdom | UK |
| 64 | United States | US |
| 65 | Uruguay | URY |
| 66 | Uzbekistan | UZB |

Table S3: The abbreviations of states (provinces) in the study area.

| Country | Number | State (Province) | Abbreviation |
|-------------------|--------|-------------------|--------------|
| Australia | 1 | New South Wales | NSW |
| | 2 | Queensland | QS |
| | 3 | South Australia | SA |
| | 4 | Tasmania | TS |
| | 5 | Victoria | VT |
| | 6 | Western Australia | WA |
| Brazil | 7 | Minas Gerais | MG |
| | 8 | Parana | PR |
| | 9 | Rio Grande do Sul | RS |
| | 10 | Santa Catarina | SC |
| | 11 | Sao Paulo | SP |
| China | 12 | Anhui | AH |
| | 13 | Gansu | GS |
| | 14 | Hebei | HB |
| | 15 | Henan | HN |
| | 16 | Hubei | HuB |
| | 17 | Jiangsu | JS |
| | 18 | Shandong | SD |
| | 19 | Shanxi | SAX |
| | 20 | Shanxi | SX |
| | 21 | Sichuan | SC |
| | 22 | Xinjiang | XJ |
| India | 23 | Bihar | BR |
| | 24 | Chhattisgarh | CT |
| | 25 | Gujarat | GJ |
| | 26 | Haryana | HR |
| | 27 | Himachal Pradesh | HP |
| | 28 | Jammu and Kashmir | JK |
| | 29 | Jharkhand | JH |
| | 30 | Karnataka | KA |
| | 31 | Madhya Pradesh | MP |
| | 32 | Maharashtra | MH |
| | 33 | Punjab | PB |
| | 34 | Rajasthan | RJ |
| | 35 | Uttar Pradesh | UP |
| | 36 | Uttarakhand | UT |
| | 37 | West Bengal | WB |
| The United States | 38 | Alabama | AL |
| | 39 | Arkansas | AR |
| | 40 | California | CA |
| | 41 | Colorado | CO |

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|----|----------------|----|
| 42 | Delaware | DE |
| 43 | Georgia | GA |
| 44 | Idaho | ID |
| 45 | Illinois | IL |
| 46 | Indiana | IN |
| 47 | Kansas | KS |
| 48 | Kentucky | KY |
| 49 | Maryland | MD |
| 50 | Michigan | MI |
| 51 | Mississippi | MS |
| 52 | Missouri | MO |
| 53 | Montana | MT |
| 54 | Nebraska | NE |
| 55 | New Jersey | NJ |
| 56 | New Mexico | NM |
| 57 | New York | NY |
| 58 | North Carolina | NC |
| 59 | North Dakota | ND |
| 60 | Ohio | OH |
| 61 | Oklahoma | OK |
| 62 | Oregon | OR |
| 63 | Pennsylvania | PA |
| 64 | South Carolina | SC |
| 65 | South Dakota | SD |
| 66 | Tennessee | TN |
| 67 | Texas | TX |
| 68 | Utah | UT |
| 69 | Virginia | VA |
| 70 | Washington | WA |
| 71 | Wisconsin | WI |
| 72 | Wyoming | WY |
