

Senegal - Annual Agricultural Survey 2024-2025

**Directorate for Agricultural Analysis, Forecasting and Statistics (DAPSA, Direction
de l'Analyse, de la Prévision et des Statistiques Agricoles)**

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Identification

SURVEY ID NUMBER

SEN_2024_2025_EAA_v01_M_v01_A_ESS

TITLE

Annual Agricultural Survey 2024-2025

ABBREVIATION OR ACRONYM

EAA 2024-2025

COUNTRY

Name	Country code
Senegal	SEN

STUDY TYPE

Agricultural Survey [ag/oth]

SERIES INFORMATION

The Annual Agricultural Survey (AAS) is a sample survey conducted during Senegal's main agricultural season (from July of year n to June of year $n+1$). Its primary objective is to provide information on the country's main rainfed agricultural production.

Since the 2017–2018 agricultural season, the adoption of the modular AGRIS methodology, followed by the implementation of the 50x2030 Initiative, has expanded the survey's scope to include non-rainfed agricultural activities carried out by agricultural households, such as livestock, horticulture, fisheries and aquaculture, and agroforestry. It has also enabled the integration of technical, economic, environmental, and social dimensions of agricultural holdings.

In addition to the core module, which is conducted annually to collect data on agricultural production and input use, thematic modules are implemented on a three-year rotating basis.

ABSTRACT

In its current design, the Annual Agricultural Survey (AAS) covers all regions and all 45 departments of Senegal. It is an annual statistical operation whose overall objective is to estimate the production levels of the country's main agricultural commodities produced by family agricultural holdings.

The survey also collects information on the physical characteristics of cultivated plots, including geolocation and area, as well as on key agricultural investments made on these plots, such as agricultural inputs, crop management practices, and soil management and restoration activities. The main indicators produced include crop yields, cultivated area, production levels, and the means of production.

Following the modular approach, the 2024–2025 edition of the AAS includes the Income, Labour and Productivity (ILP) module. In addition, the 50x2030 core questionnaire collects the data required to produce Sustainable Development Goal (SDG) indicator 5.a.1, while the ILP module provides data for the calculation of SDG indicators 2.3.1 and 2.3.2.

KIND OF DATA

Sample survey data [ssd]

UNIT OF ANALYSIS

Agricultural Households

Version

VERSION DESCRIPTION

Version issue de l'anonymisation des données

Scope

NOTES

- Socio-demographic characteristics of agricultural households
- Characteristics of agricultural holdings
- Agricultural production methods
- Crop production activities
- Use of agricultural inputs and equipment
- Crop production and utilization
- Livestock
- Agricultural labour
- Fisheries and aquaculture
- Agroforestry
- Production-related shocks
- Subsidies, loans, and transfers
- Average labour productivity and average income of small-scale food producers (SDG indicators 2.3.1 and 2.3.2)
- Land ownership and tenure rights, with a particular focus on women (SDG indicator 5.a.1)

TOPICS

Topic
Characteristics of agricultural holdings
Characteristics of household members and plot managers
Characteristics of agricultural plots
Crop production, area, and yield
Sustainable land management
Agricultural production costs and income
Agricultural labour

Coverage

GEOGRAPHIC COVERAGE

The Annual Agricultural Survey covers all 45 departments of Senegal. However, for confidentiality and anonymization purposes, the original Department variable has been replaced in the public-use dataset by an Agroecological Zone variable, which groups departments into broader agroecological areas. The Region variable has been retained in the anonymized version of the dataset.

GEOGRAPHIC UNIT

The department is the lowest level of geographic disaggregation covered by the data.

UNIVERSE

The Annual Agricultural Survey covers agricultural households and agricultural plots in all 45 departments of Senegal.

Producers and sponsors

PRIMARY INVESTIGATORS

Name	Affiliation
Directorate for Agricultural Analysis, Forecasting and Statistics (DAPSA, Direction de l'Analyse, de la Prévision et des Statistiques Agricoles)	Ministry of Agriculture, Food Sovereignty and Livestock (Ministère de l'Agriculture, de la Souveraineté Alimentaire et de l'Élevage, MASAE)

PRODUCERS

Name	Abbreviation	Affiliation	Role
National Agency for Statistics and Demography (Agence nationale de la Statistique et de la Démographie)	ANSD	MEPC	Participation in all stages of the Annual Agricultural Survey (AAS)
Horticulture Directorate (Direction de l'Horticulture)	DHORT	MASAE	Support for questionnaire design
Directorate of Planning, Evaluation and Statistics (Direction de la Planification, de l'Evaluation et des Statistiques)	DPES	MASAE	Support for questionnaire design
National Fund for Agro-Sylvo-Pastoral Development (Fonds National de Développement Agro-Sylvo-Pastoral)	FNDASP	MASAE	Support for questionnaire design

FUNDING AGENCY/SPONSOR

Name	Abbreviation	Role
State of Senegal		Funding for field staff and data collection equipment
West and Central Africa Regional Project for the Harmonization and Improvement of Statistics (Projet d'Harmonisation et d'Amélioration des Statistiques en Afrique de l'Ouest et du Centre)	PHASAO	Technical and financial assistance, logistical support

Sampling

SAMPLING PROCEDURE

The Annual Agricultural Survey (AAS) is based on a two-stage sampling design, where the primary sampling units (PSUs) are census enumeration areas (EAs) and the secondary sampling units (SSUs) are agricultural households, as defined in the 2023 General Population and Housing Census.

In line with the expansion of the survey scope recommended under the 50x2030 Initiative, the sampling design incorporates first-stage stratification derived from the second-stage stratification, in order to better capture the diversity of agricultural activities and improve estimation efficiency. Although less efficient than an independent first-stage stratification, this approach was adopted due to the lack of relevant auxiliary variables in the 2023 census sampling frame to effectively discriminate among enumeration areas.

Stratification was based on the relative importance of the main agricultural activities (in terms of the number of households) identified in the 2023 census, namely rainfed crop production and livestock.

Three strata were defined as follows:

- Rainfed crops only: households engaged exclusively in rainfed crop production;
- Livestock only: households engaged exclusively in livestock activities;
- Rainfed crops and livestock: households engaged in both rainfed crop production and livestock activities.

The sample size of agricultural households was determined at the departmental level (survey domain), targeting a relative error of 10 percent for the main indicator. Allocation of the sample across strata within each department was carried out using the Bankier (1988) method, as described in the methodological guidelines on master sampling frames (pp. 79–81) of the Global Strategy to Improve Agricultural and Rural Statistics (GSARS).

At the national level, the initial theoretical sample size was 7278 households, distributed across 1456 physical enumeration areas, with 5 households selected per enumeration area. Following the listing operation conducted in the selected enumeration areas, adjustments were made to account for actual EA sizes, resulting in a final sample size of 6947 households.

DEVIATIONS FROM THE SAMPLE DESIGN

Adjustments were made to the sampling design based on the response rate at each phase.

RESPONSE RATE

First phase: A sample of 7278 households was selected, of which 6947 were successfully surveyed, corresponding to a

response rate of 95 percent.

Second phase: A sample of 6947 households was selected, of which 6880 were successfully surveyed, corresponding to a response rate of 99 percent.

WEIGHTING

A household weight was applied.

Data collection

DATES OF DATA COLLECTION

Start	End
2024-08	2024-12
2025-05	2025-06

TIME PERIODS

Start date	End date
2024-04	2025-05

DATA COLLECTION MODE

Computer Assisted Personal Interview [capi]

SUPERVISION

Several technical, organizational, and logistical difficulties were observed:

- Technical issues: enumerators reported problems related to
 - faulty Garmin GPS devices
 - malfunctioning tablets
 - difficulties in capturing geographic coordinates on some tablets
 - network coverage issues
- Organizational issues: across the different supervision levels
 - the absence of some enumerators during supervision periods for various reasons
 - continued cases of refusal, non-response, and sometimes respondent fatigue, especially in large urban areas
 - communication issues between enumerators and the local supervision system (feedback reporting problems, including cases of untraceable households)
 - overlapping activities of some enumerators enrolled in the National Register of Enterprises (RNE)
 - the absence of some households despite scheduled appointments, often requiring repeated visits
- Logistical issues:
 - some enumerators faced mobility constraints due to a lack of properly functioning motorcycles

DATA COLLECTION NOTES

At the regional level, the 14 Regional Directors of Rural Development (DRDRs) and regional supervisors (statistical officers within the DRDRs) are responsible for:

- supervising the recruitment of enumerators and refresher training sessions;
- receiving and distributing survey materials (training materials, tablets, supplementary questionnaires, fuel allocations, etc.);
- facilitating the centralization of equipment (tablets, chargers, etc.) at the regional level at the end of field operations;
- overseeing the consolidation of collected data (verification, consistency checks, etc.);
- informing regional and national authorities on the implementation of survey operations.

At the departmental level (Departmental Rural Development Service, SDDR), covering all 45 departments, departmental supervisors (Heads of Departmental Services) are responsible for:

- assisting regional supervisors in their duties;

- supervising the preparation and implementation of the survey plan;
- assigning enumeration areas (EAs) and households;
- facilitating data control and correction;
- backing up data files on a computer;
- participating in data consolidation at the regional level;
- ensuring proper management of equipment.

The 45 departmental controllers are responsible for:

- assisting departmental supervisors in their duties;
- implementing the survey plan;
- monitoring field data collection operations;
- proposing corrective actions for data collection activities (observation points, data collection setup, etc.).

The 168 enumerators are responsible for:

- informing local authorities about the survey operation;
- identifying selected households with the support of local authorities;
- administering the various questionnaires;
- submitting completed questionnaires for validation by the controller;
- working closely with controllers to ensure data verification, correction, and backup (data are saved on the controller's/supervisor's computer at every opportunity to prevent data loss).

Questionnaires

QUESTIONNAIRES

Questionnaire 1: Census and characterization of agricultural holdings

Questionnaire 2: Agricultural production, labour, and productivity (ILP)

Access policy

CONTACTS

Name	Affiliation	Email	URL
Directorate for Agricultural Analysis, Forecasting and Statistics (DAPSA, Direction de l'Analyse, de la Prévision et des Statistiques Agricoles)	MASAE	lok154@hotmail.com	Link
Moustapha Niang	MASAE	taphadaps@gmail.com	Link

CONFIDENTIALITY

The microdata from the Annual Agricultural Survey are confidential. They are anonymized to preserve the confidentiality and identity of respondents.

ACCESS CONDITIONS

The requesting organization or institution shall agree to comply with the following conditions:

1. The user shall comply with Articles 6 and 7 of Chapter 2, Section 2 of Senegalese Law No. 2004-21 on the organization of statistical activities, which requires any person handling individual data collected by services and agencies within the national statistical system to ensure the anonymity of individuals or legal entities covered by the survey, and to use such data solely for the purpose of producing or disseminating aggregated statistical results.
2. The user is fully responsible for any conclusions or analyses derived from the data. In this regard, DAPSA shall not be held liable in any way.
3. The data shall not be copied or transmitted to any other persons or organizations, directly or indirectly, without prior written authorization from DAPSA.
4. Any publication produced using DAPSA data must include the following citation:
"Source: X Survey*, Year N*, Directorate of Analysis, Forecasting and Agricultural Statistics (DAPSA), Republic of Senegal,

www.dapsa.gouv.sn"

5. A copy of any report produced using DAPSA data shall be submitted to DAPSA for information and comments.

6. The user is informed that DAPSA reserves the right to take any legal or administrative action it deems necessary in the event of non-compliance with any of these commitments in order to protect its rights.

7. The user may, if necessary, seek technical assistance from DAPSA in conducting the study.

*X refers to the full name of the survey followed by its acronym in parentheses, e.g., "Annual Agricultural Survey (AAS)".

N refers to the survey year, e.g., "2002".

CITATION REQUIREMENTS

EAA, 2024-2025, Direction de l'Analyse, de la Prévision et des Statistiques agricoles (DAPSA) de la République du Sénégal

ACCESS AUTHORITY

Name	Affiliation	URL
Directorate for Agricultural Analysis, Forecasting and Statistics (DAPSA, Direction de l'Analyse, de la Prévision et des Statistiques Agricoles)	MASAE	Link

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DISCLAIMER

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Metadata production

DDI DOCUMENT ID

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PRODUCERS

Name	Abbreviation	Affiliation
Directorate for Agricultural Analysis, Forecasting and Statistics (DAPSA, Direction de l'Analyse, de la Prévision et des Statistiques Agricoles)	DAPSA	Ministry of Agriculture, Food Sovereignty and Livestock (Ministère de l'Agriculture, de la Souveraineté Alimentaire et de l'Élevage, MASAE)

Data Dictionary

Data file	Cases	Variables
MEMBRE_P1_ano Cette base contient des informations relatives aux caractéristiques socio-démographiques des membres des ménages agricoles	71166	15
Menage_P1_ano Cette base contient toutes les variables de collecte se rapportant à l'exploitation agricole ou ménage agricole lors du passage post-emblavure de l'enquête (Passage 1)	6947	97
PARCELLE_P1_ano Elle traite des informations relatives aux caractéristiques des parcelles exploitées et non exploitées au cours de la campagne agricole	15809	285
animal_ano Elle contient des informations relatives aux effectifs et flux cheptel, aux couts liés à la reproduction animal, à alimentation et aux soins vétérinaires	18321	161
animal_Lac_ano Cette base contient des informations sur la production de lait au cours des 12 derniers mois	771	34
base_intrant_ano Cette base contient des informations relatives à l'utilisation des intrants dans la production végétale, ainsi qu'aux coûts qui y sont associés.	5191	15
base_oeuf_ano Cette base contient des informations sur la production d'œuf au cours des 3 derniers mois	617	13
base_poisson_ano Cette base contient des informations relatives à la production de pêche	271	17
base_Prod_aquacole_ano Cette base contient des informations relatives à la production aquacole	18	15
base_prodceuil_ano Cette base contient des informations relatives à la production de cueillette	5801	27
base_prodfruit_ano Cette base contient des informations relatives à la production de culture fruitière	1473	100
base_travail_peche_ano Cette base contient des éléments de main d'œuvre liés à l'activité de la pêche	101	13
maindeoeuvregratuit_ano Cette base contient des informations relatives à l'utilisation de la main d'œuvre externe non rémunérée liée à la production végétale	1281	10
maindeoeuvrerembauche_ano Cette base contient des informations relatives à l'utilisation de la main d'œuvre externe rémunérée liée à la production végétale	1309	12
Menage_P2_ano Cette base contient toutes les variables de collecte se rapportant à l'exploitation agricole ou ménage agricole lors du passage post-récolte de l'enquête (Passage 2)	6880	451
PRODFRUITTRANSFORME_ano Cette base contient des informations relatives à la production de culture fruitière transformée	219	15
PRODLAIT_ano Cette base contient des informations relatives à la production des produits dérivés du lait	263	14
prodmaraichere_ano Cette base contient des informations relatives à la production de culture maraichère	2006	135
prodpluv_ano Cette base contient des informations relatives à la production de culture pluviale	10580	147

PRODPLUVTRANSFORME_ano Cette base contient des informations relatives à la production de culture pluviale transformée	31	23
rstActDebCamp_ano Cette base contient des informations relatives à l'utilisation de la main d'œuvre familiale liée à la production végétale au cours de la campagne agricole	23747	15
Rster_travail_ano Cette base contient des éléments de main d'œuvre liés à l'activité d'élevage	4645	12
Travail_foresterie_ano Cette base contient des éléments de main d'œuvre liés à l'activité de la foresterie	2153	13
Typ_Sub_Indirect_ano Cette base contient des informations relatives aux subventions, prêts et transferts des ménages agricoles	670	12
type_service1_ano Cette base contient des informations relatives aux couts agricoles liés à la réparation d'équipements agricoles, au transport de produits agricoles, aux tâches post-recoltes ou l'entretien de bâtiments agricoles	1070	9
type_service2_ano Cette base contient des informations relatives aux couts agricoles liés à la location de terres, d'animaux de trait, d'équipements agricoles, de bâtiments agricoles	213	9
type_service3_ano Cette base contient des informations relatives aux couts agricoles liés aux carburant et lubrifiants pour machines, équipements et véhicules agricoles, à l'électricité (y compris la transformation des cultures) ou à l'eau utilisée pour l'irrigation (y compris les droits d'irrigation)	161	9
type_service4_ano Cette base contient des informations relatives aux couts agricoles liés aux services consultatifs agricoles, des services contractuels, une assurance agricole ou des taxes liées à l'activité agricole de l'exploitation	39	9
Travail_aquacole_ano Cette base contient des éléments de main d'œuvre liés à l'activité aquacole	6	12
PRODMARTRANSFORME_ano Cette base contient des informations relatives à la production de culture maraîchère transformée	36	14