



UGANDA BUREAU OF STATISTICS



THE REPUBLIC OF UGANDA

NLC 2021 REPORT DISSEMINATION





PART A

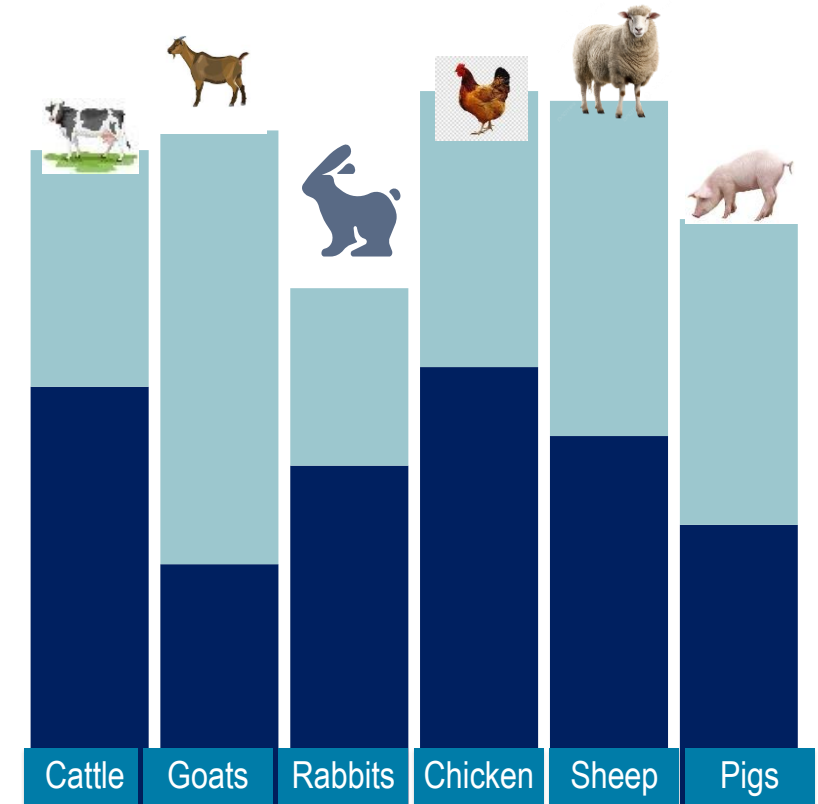
Overview of the National Livestock Census 2021

By

Flavia N. Oumo

Senior Statistician

NATIONAL LIVESTOCK CENSUS 2021 OVERVIEW



Presentation Outline

- ❖ Agricultural Census
- ❖ History of Agriculture Census
- ❖ National Livestock Census 2021
- ❖ Census Organization
- ❖ NLC Methodology
- ❖ NLC Preparatory Activities
- ❖ Data Processing
- ❖ Challenges
- ❖ The NLC Reports



- **Agricultural Census:** Is a statistical operation for collecting, processing and disseminating data on the structure of agriculture, covering the whole or a significant part of a country.
- **Large scale sample census:** Due to limited resources, there are very few countries in the world that attempt to carry out complete enumeration on all agricultural holdings. Consequently, the majority of countries conduct a large-scale sample census.





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History of Agriculture Censuses

Uganda Census of Agriculture-Crop census

Crop + Livestock Census

National Census of Agriculture and Livestock (NCAL)

National Livestock Census (NLC)

National Livestock Census

First

1963/65

Second

1990/91

Third

2008

Fourth

2008/9

Fifth

2021

GoU was assisted by FAO and UK financially and technically

Funded by the UNDP and executed by FAO

Funded by GOU + AfDB

4th & 5th censuses were funded by the GoU

National Livestock Census 2021

- ✓ **Objective:** To collect data on the livestock populations, structure and organization of the livestock sub sector in Uganda.
- ✓ **Rationale:** To obtain Livestock statistics that are required for evidence-based decision making, policy formulation, monitoring and evaluation of government programs and reporting on national, regional and international frameworks.
- ✓ **Reference period:** 24th May to 4th June 2021



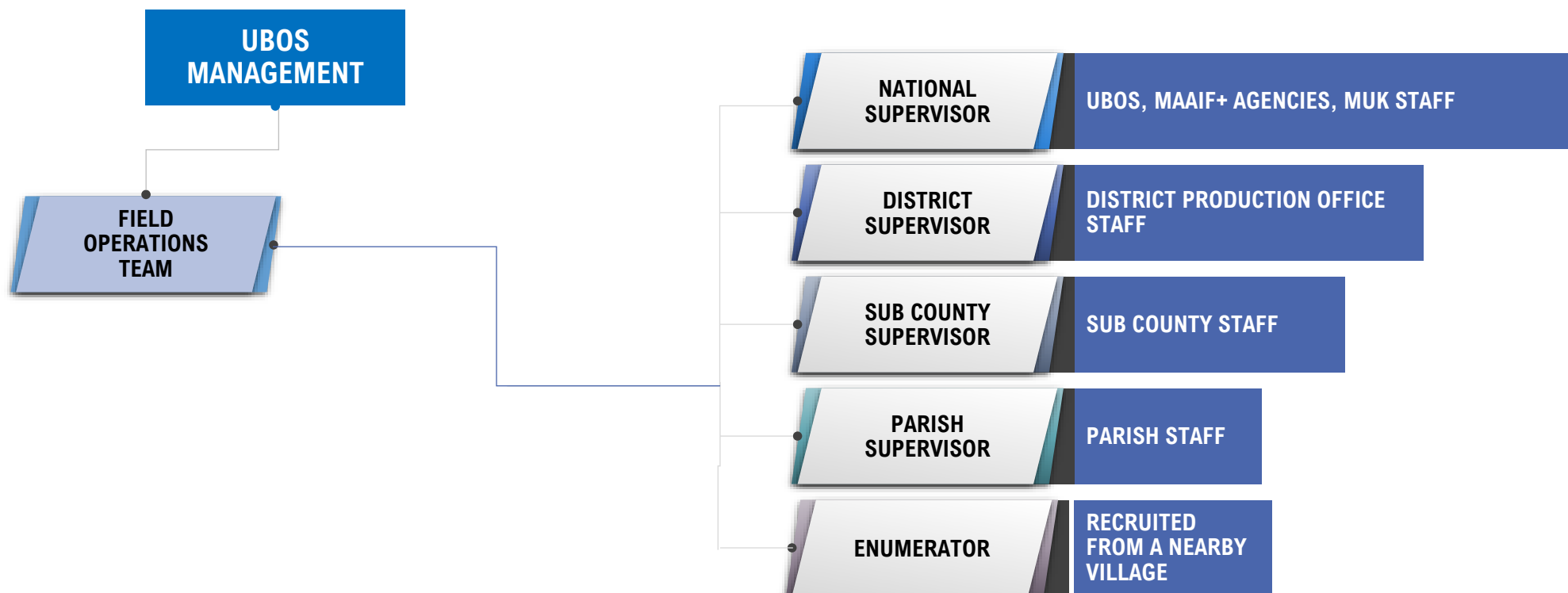


NLC 2021 Management

- ✓ The NLC 2021 was conducted by UBOS under the Authority of the Uganda Bureau of Statistics Act Number 12 of 1998.
- ✓ Undertaken in close collaboration with the Ministry of Agriculture, Animal Industry and Fisheries (MAAIF)



FIELD IMPLEMENTATION OF NLC 2021





NLC Methodology

- **Scope and coverage**

- ✓ Livestock (Populations, Production systems, extension services, livestock products), apiary and Companion animals
- ✓ National Census-covering 135 districts (as of July 2019) in cattle and non-cattle corridor.
- **Statistical unit of enumeration:** Household-based farms and Private Large Scale and Institutional Farms were enumerated



NLC Methodology CTD

- **Sample size**

- ✓ Complete enumeration in the cattle-corridor districts and a sample in non-cattle corridor districts.
- ✓ A two-stage stratified sampling design; 20% of EAs in non-cattle corridor districts were sampled.
- ✓ The National population housing census (NPHC) 2024 sampling frame was used obtain the NLC sample.
- ✓ 32,163 EAs were to be covered; cattle corridor with 23,443 EAS and 8,720 EAs in the non-cattle corridor.
- ✓ 31,195 EAs were enumerated ; hence a 97% completion rate.



NLC-Undertaking process

Pre-NLC Preparatory Activities

- ✓ Consultation on content
- ✓ Pretesting the questionnaire
- ✓ Training
- ✓ Communication and Publicity

Enumeration

- ✓ Face to face interview
- ✓ Using Paper and pen

Post Enumeration Activities

- ✓ Data capture -summary sheets, HH and Private Large scale and institutional farms questionnaires was done using CSPRO.
- ✓ Cleaning and analysis was done using
- ✓ STATA
- ✓ Data validation
- ✓ Data quality checks

Dissemination

- ✓ Reports
- ✓ Excel tables on the website



Compilation of indicators

- ✓ Indicators are
 - Totals,
 - Averages, and
 - Percentages for livestock types and Households
- ✓ At National, Regional, Sub–regional, ZARDI and District



Challenges

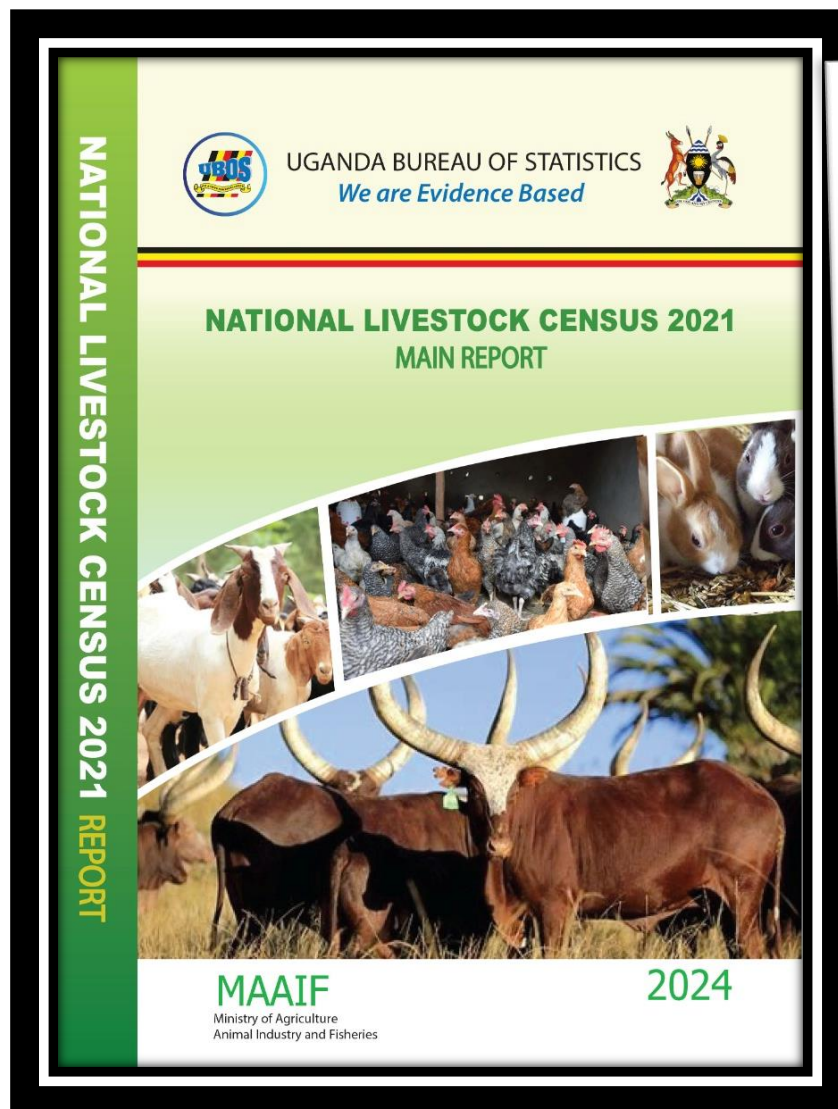
- i. COVID-19
- ii. Traditional beliefs on declaration of livestock numbers
- iii. FMD in some districts
- iv. Use of PAPI and so data was not received in real time



















Mitigations measures

- i. Used SOPs
- ii. Advocacy
- iii. Veterinary officers on the team
- iv. A big data entry team to capture

Reports

- i. Main report
- ii. Abridged report
- iii. Excel tables



-  Chapter 2 - Livestock Production Systems... 
-  Chapter 3 - Cattle Numbers 
-  Chapter 4 - Goat Numbers 
-  Chapter 5 - Sheep Numbers 
-  Chapter 6 - Pig Numbers 
-  Chapter 7 - Poultry Numbers 
-  Chapter 8 - Other Livestock Numbers 
-  Chapter 9 - Dogs and Cats Numbers 
-  Chapter 10 - Bee-Hives Numbers and Ho... 



PART B:

- Livestock Keeping Household Characteristics
- Livestock Population

By

Aliziki K. Lubega

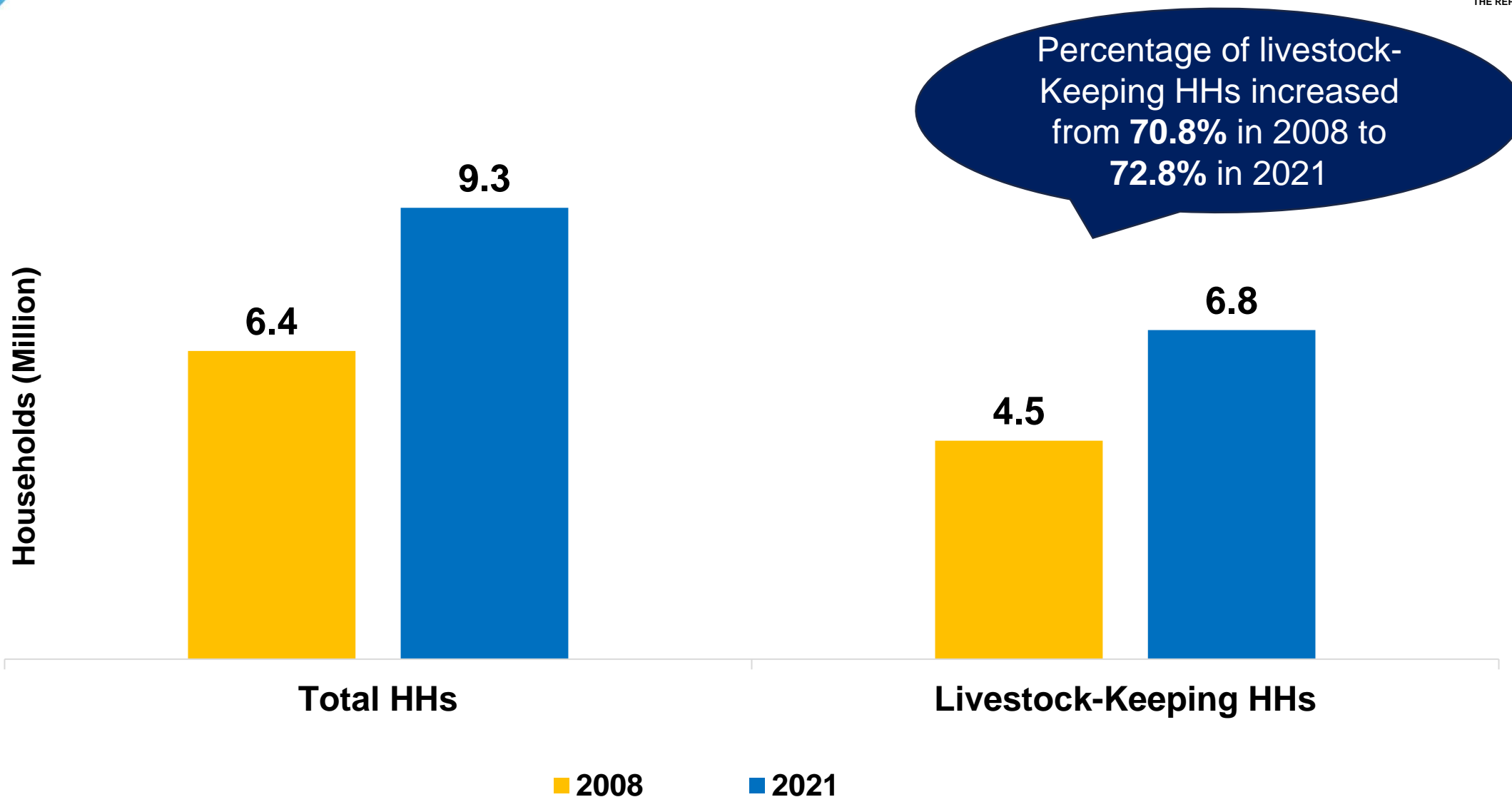
Director Economic Statistics



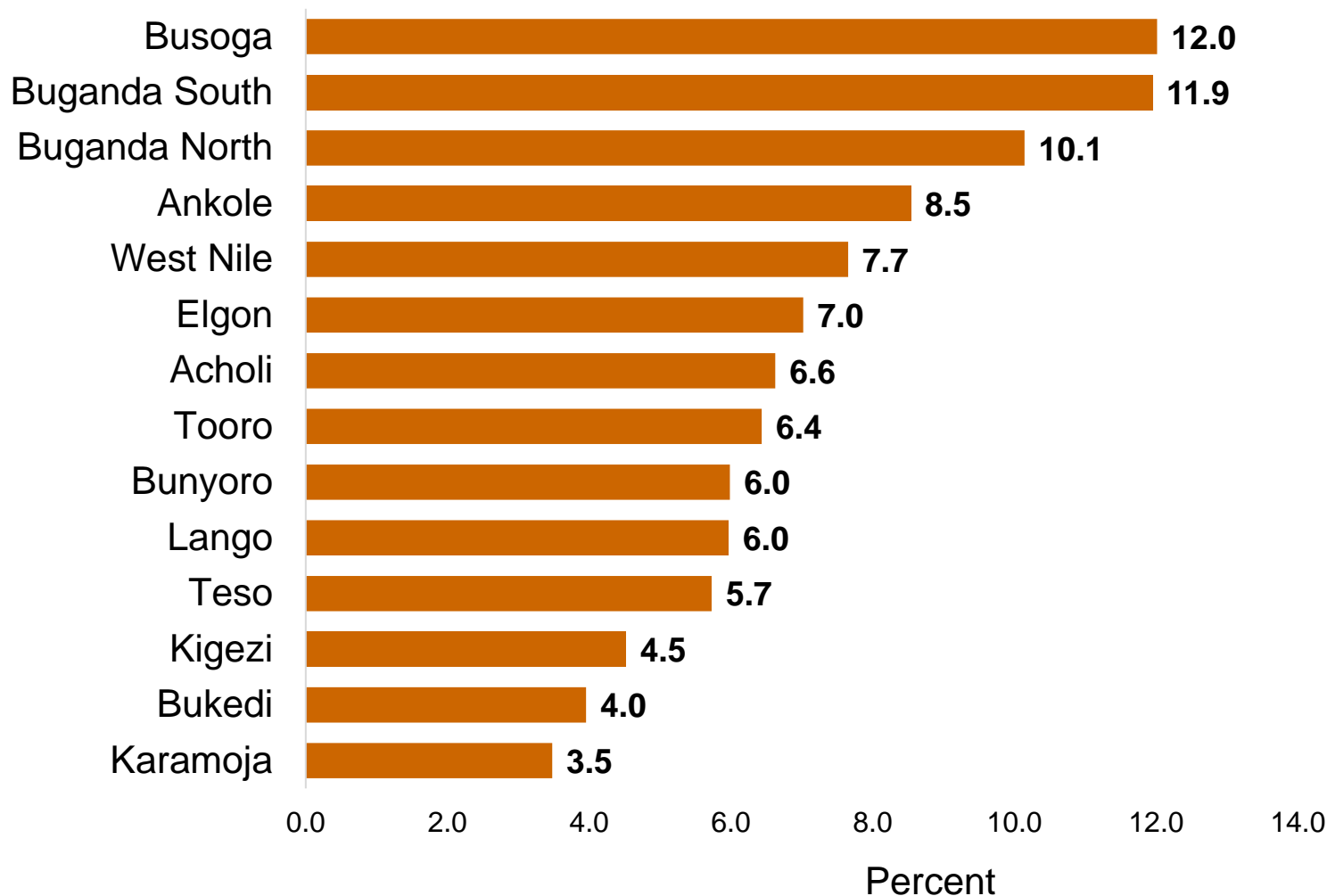
Livestock Keeping Households



Livestock-Keeping Households in Uganda



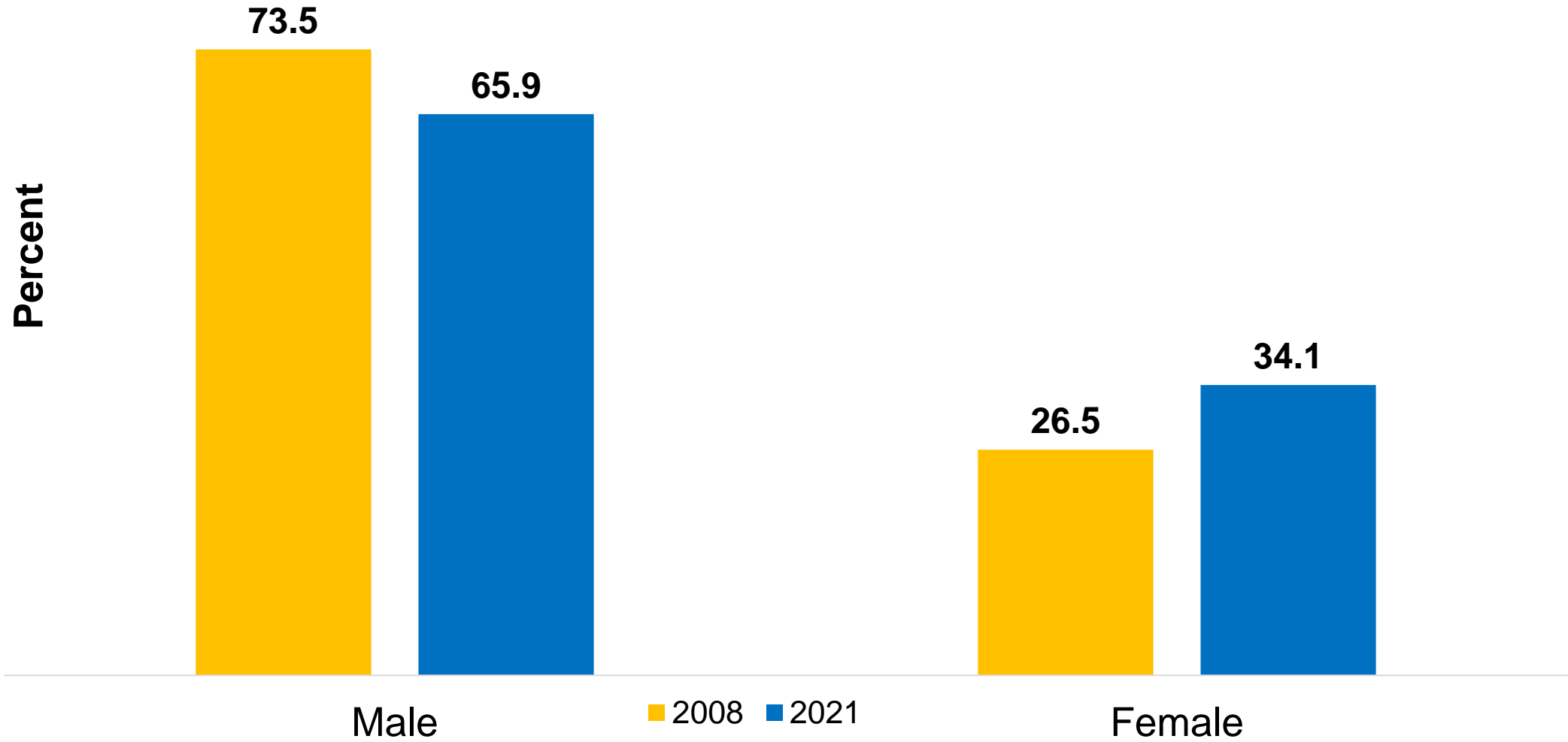
Livestock-Keeping HHs by Sub-region

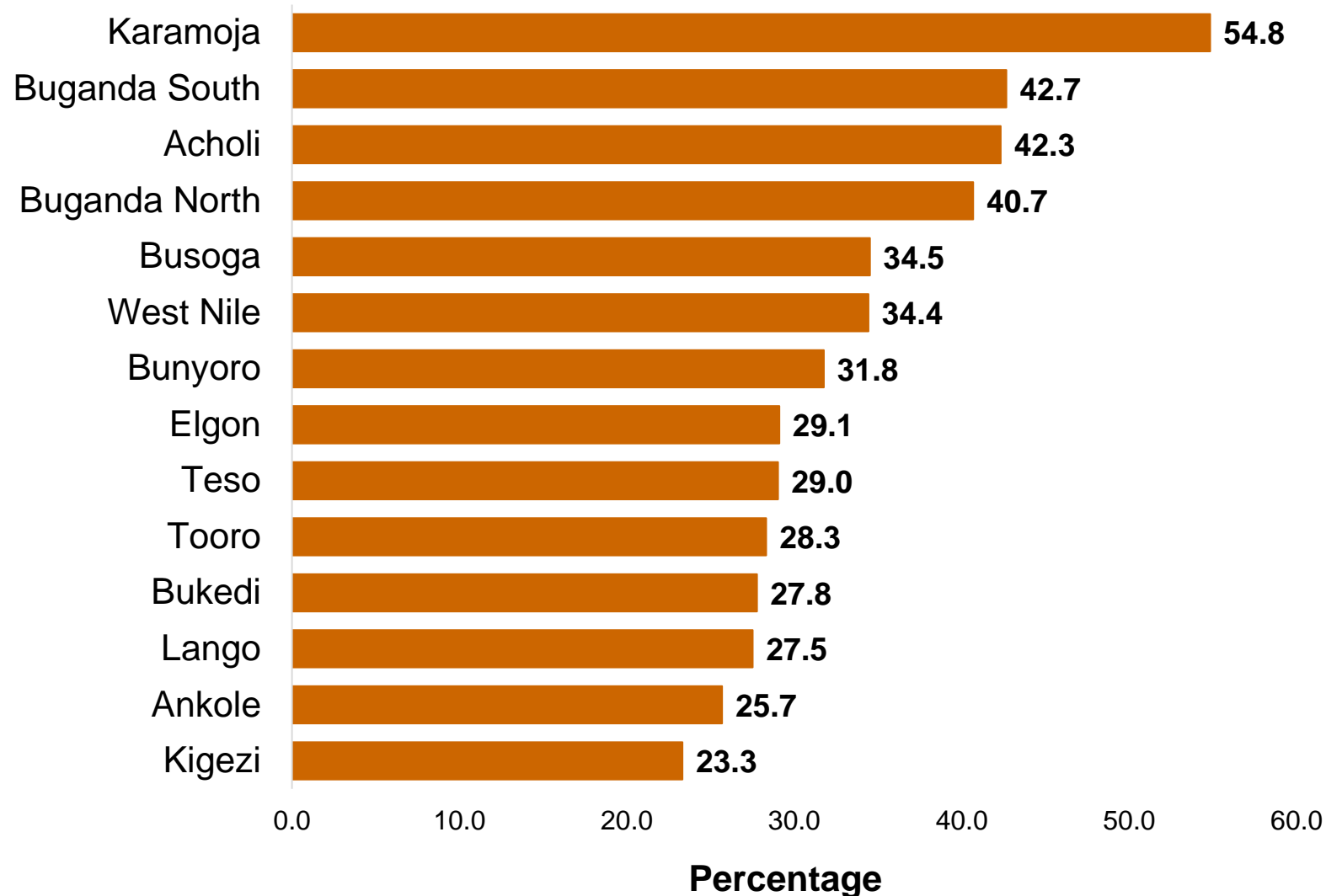


- ❑ Busoga sub-region had the highest number of livestock-keeping households of about 0.8 million (12.0%).
- ❑ Karamoja had the least number of livestock-keeping households of about 0.2 million (3.5%).



Livestock-keeping HH Head, by Gender

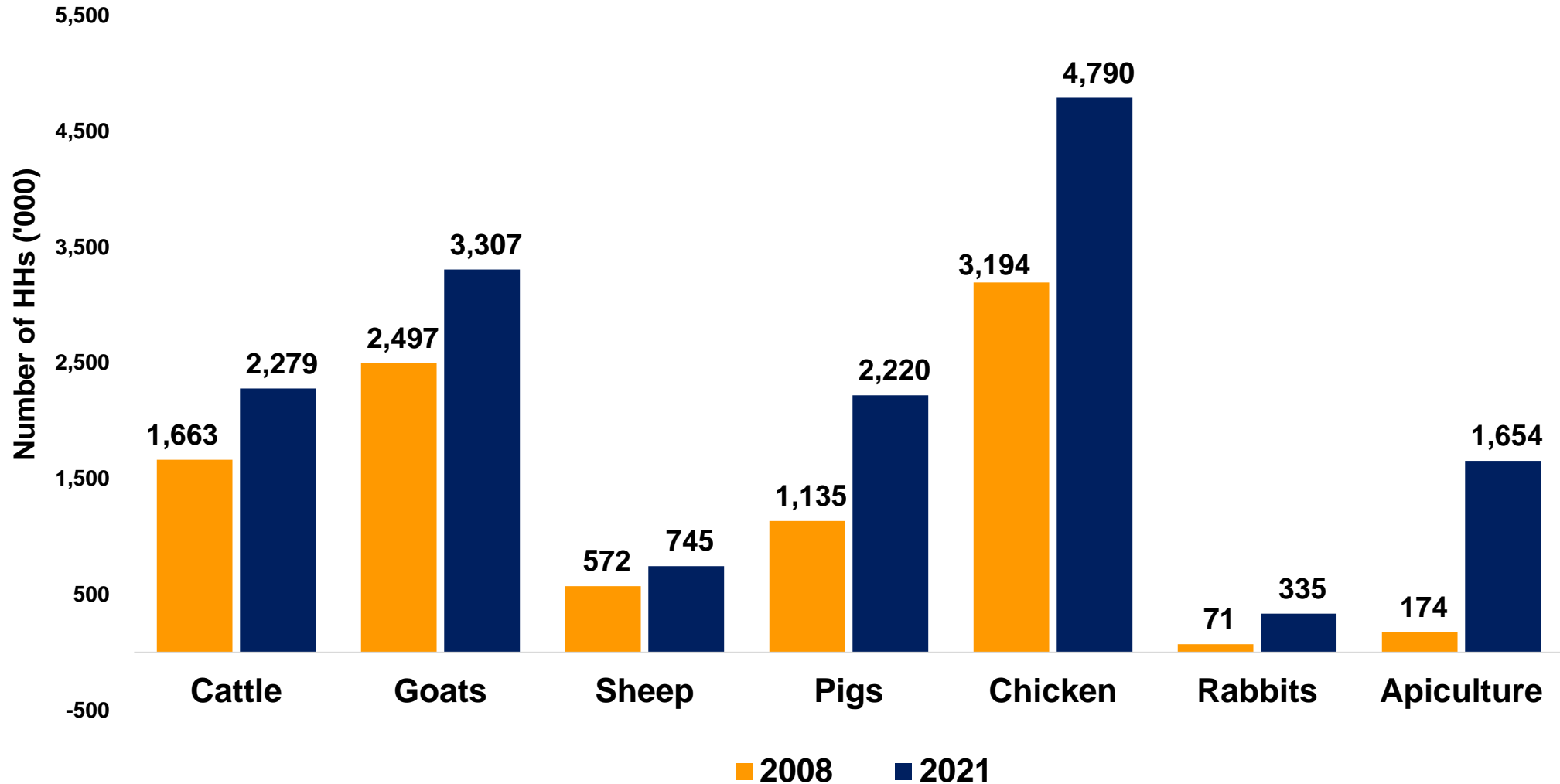




- ❑ Karamoja sub-region had the highest percentage of female-headed livestock-keeping households with 54.8%.
- ❑ Kigezi had the least proportion of female-headed livestock-keeping households with 23.3%.



Livestock-Keeping HHs by Livestock Type



Cattle Population





Cattle Keeping Households



2021

2.3 million

Cattle Keeping HHs

These constituted 33.6% of the total livestock-keeping HHs in 2021

2008

1.7 million

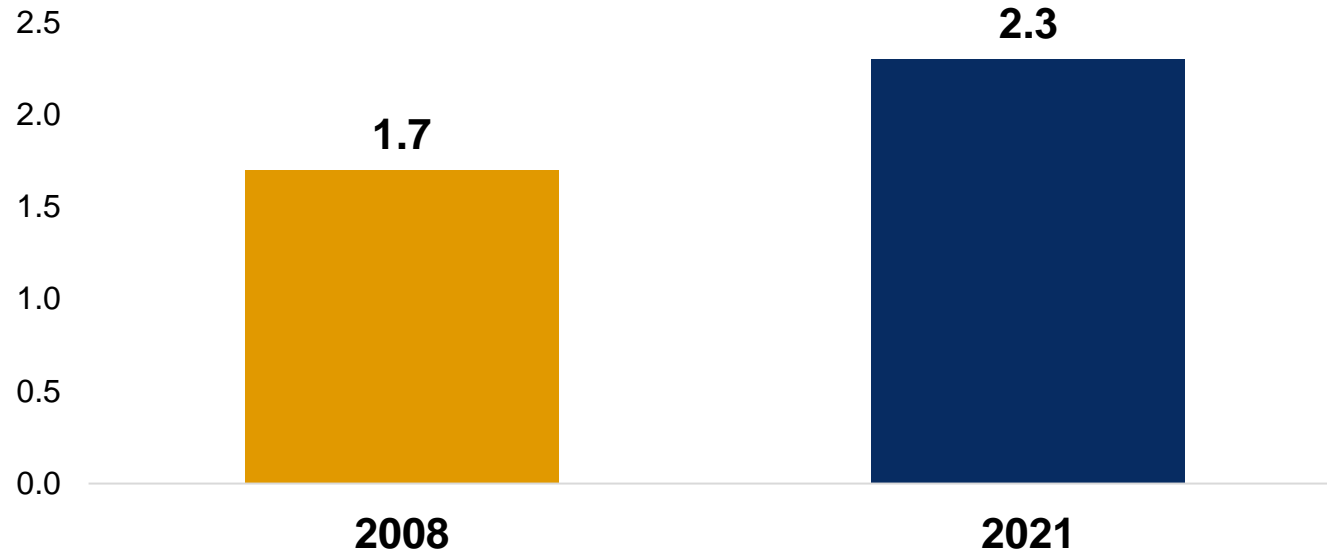
Cattle Keeping HHs

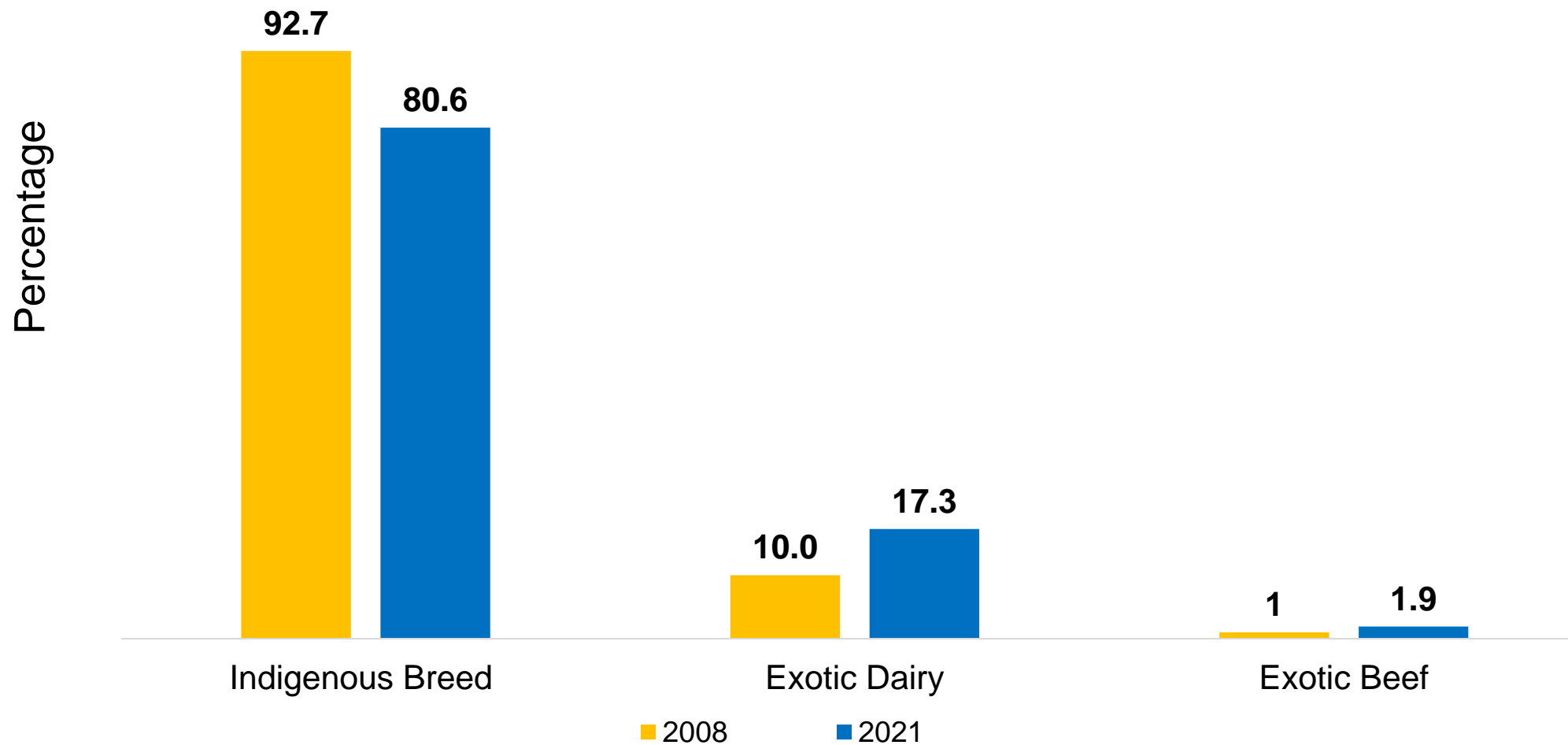
Percentage Change

Between 2008 and 2021 Cattle keeping HH increased by

37%

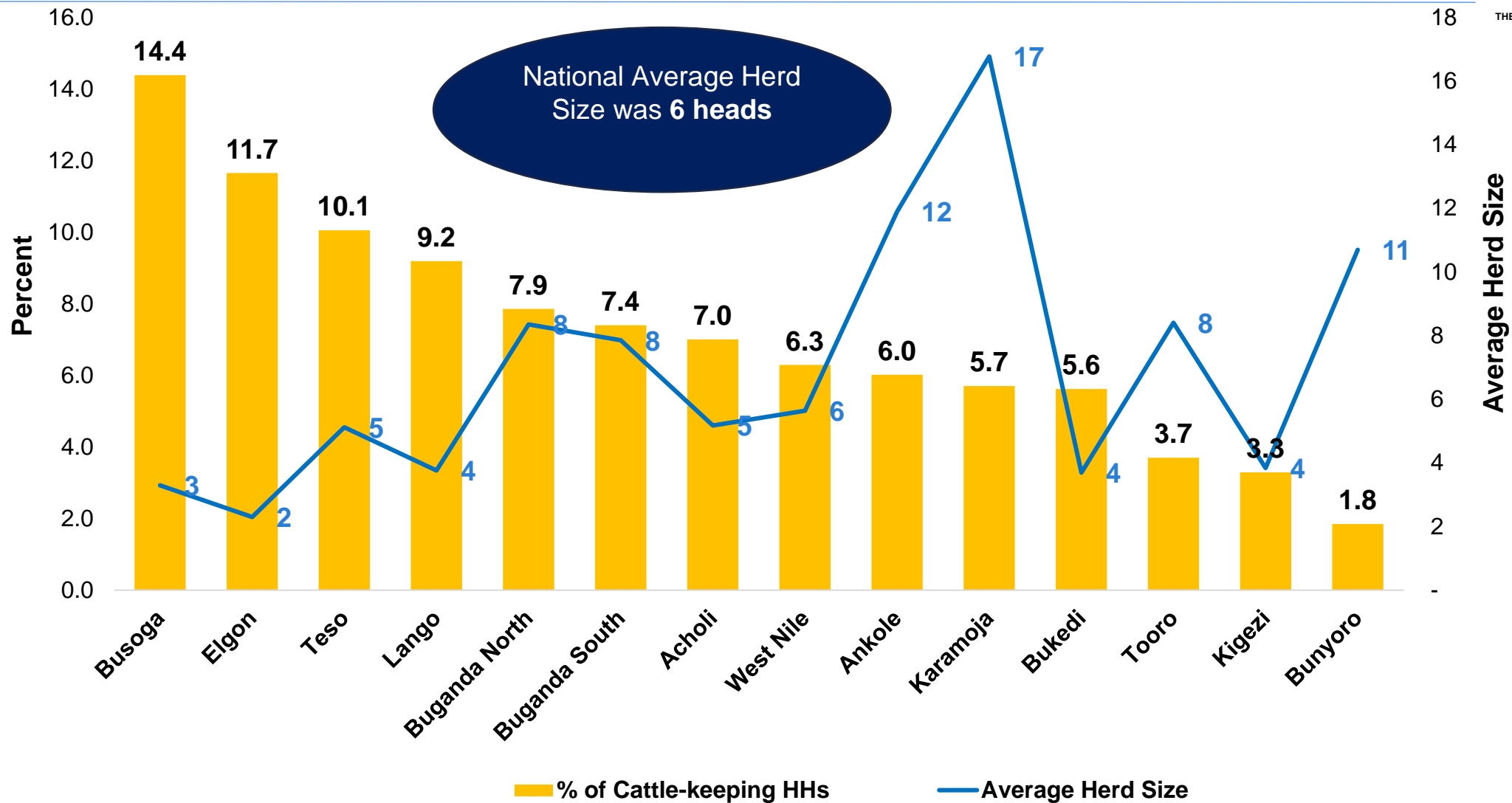
Cattle Keeping HHs (Millions)

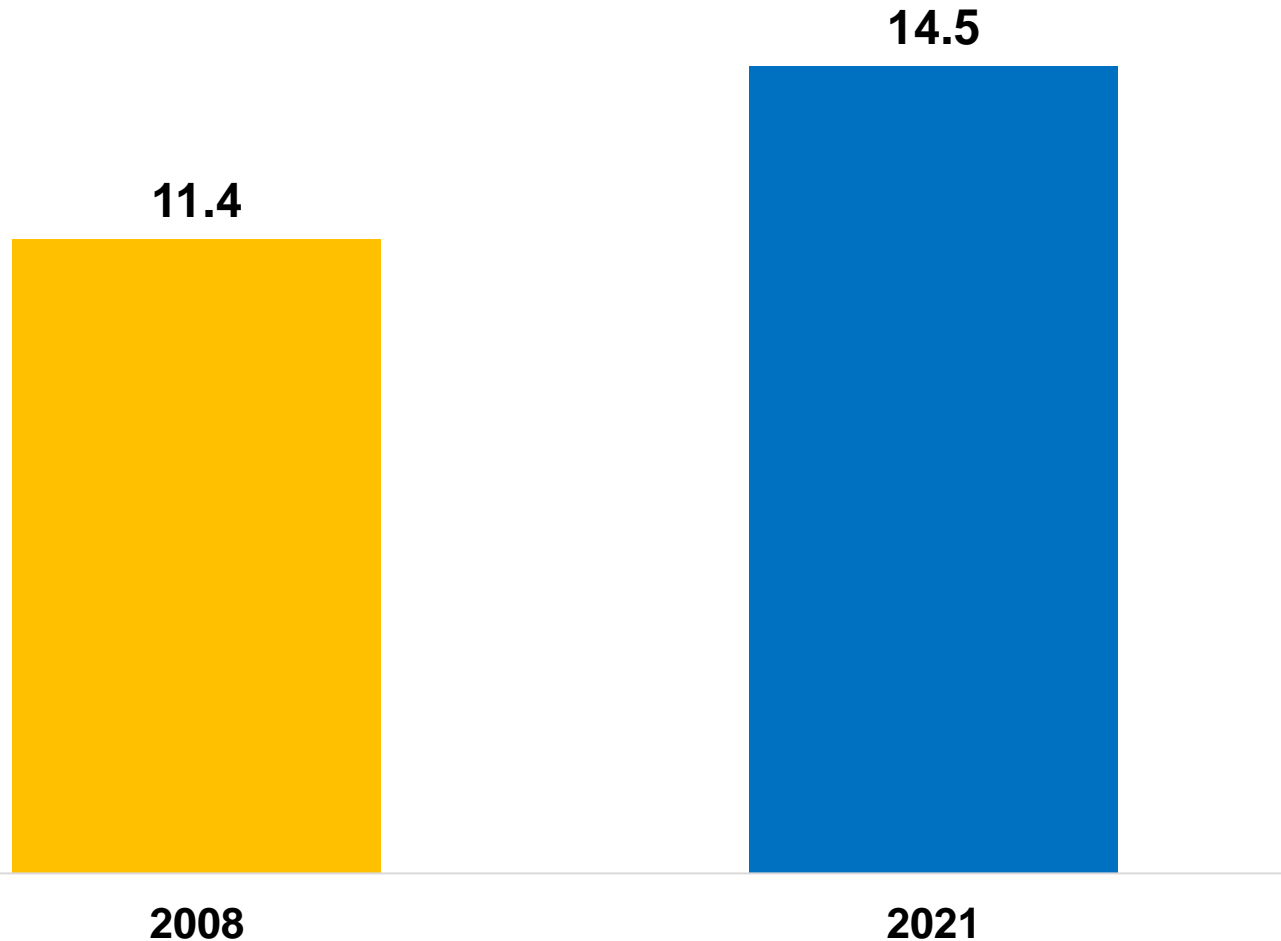






Cattle-Keeping Households & Average Herd Size, by Sub-region



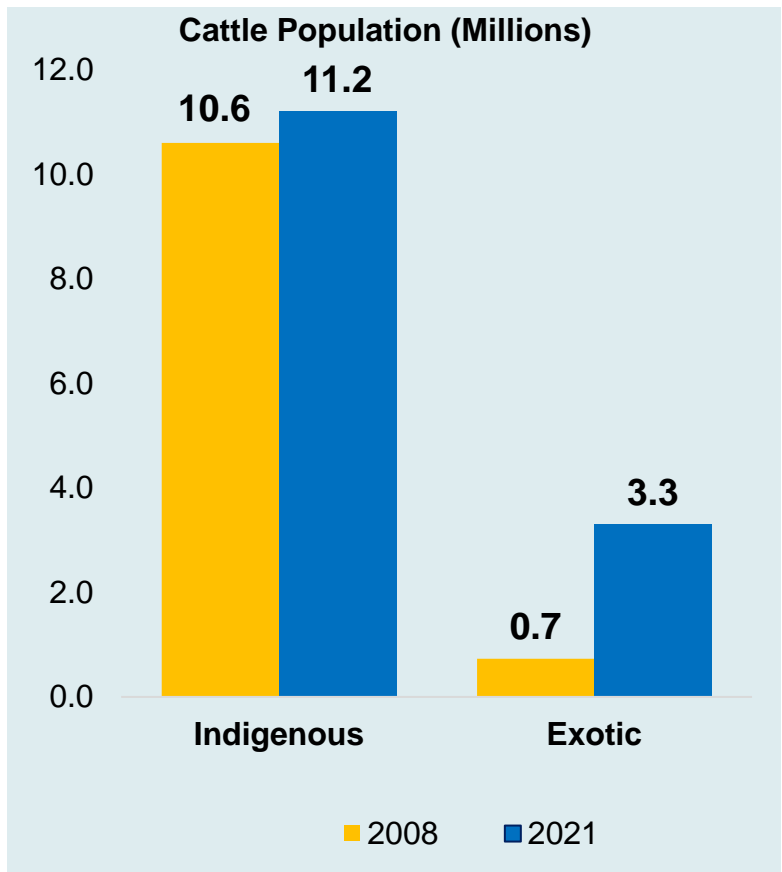


Percentage Change

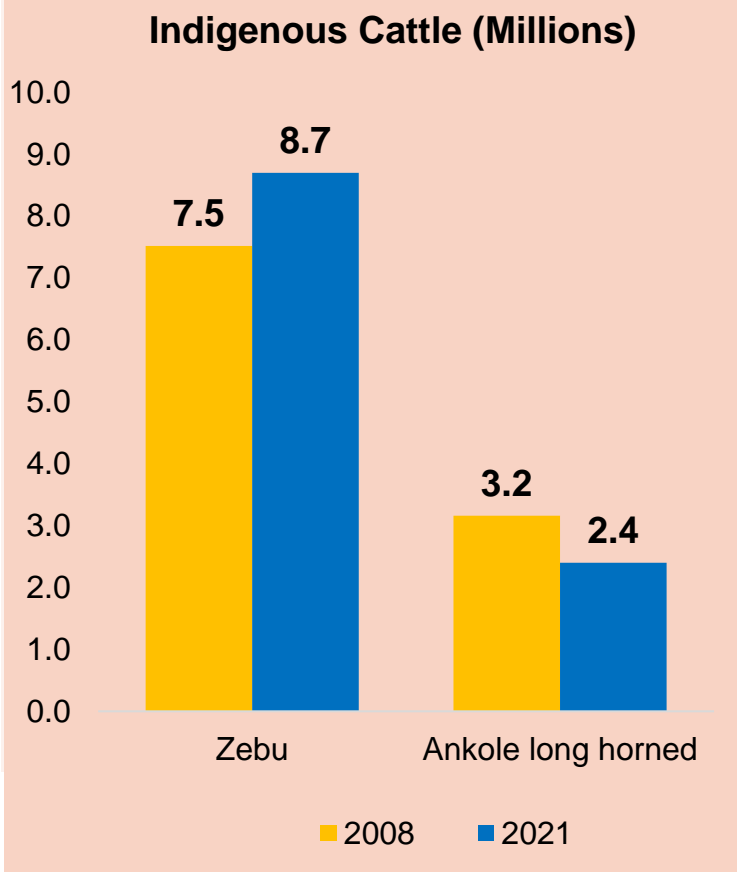
Between 2008 and 2021 Cattle population increased by

26.9%

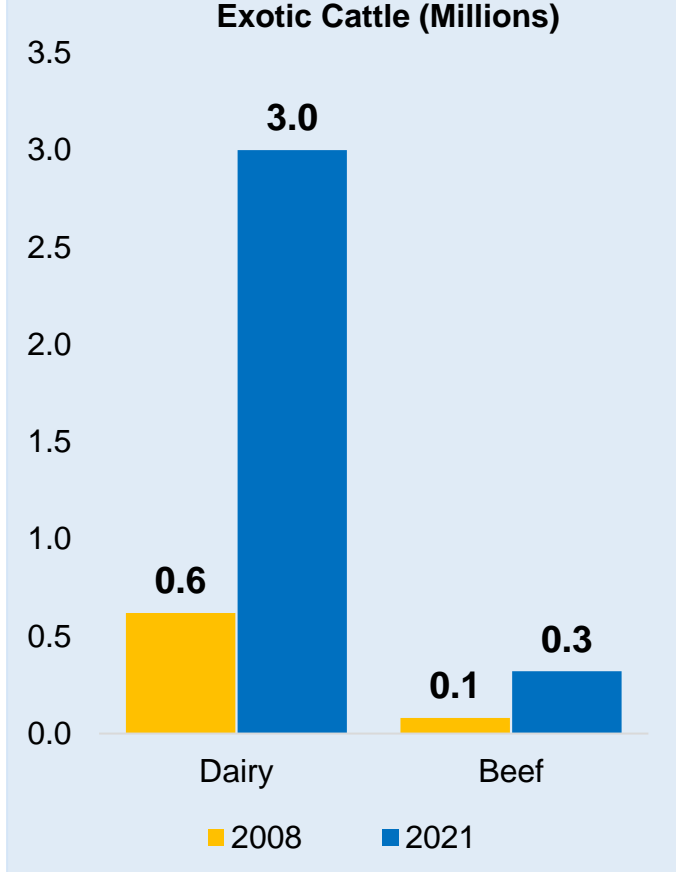
14.5 Million Cattle



77% Indigenous cattle

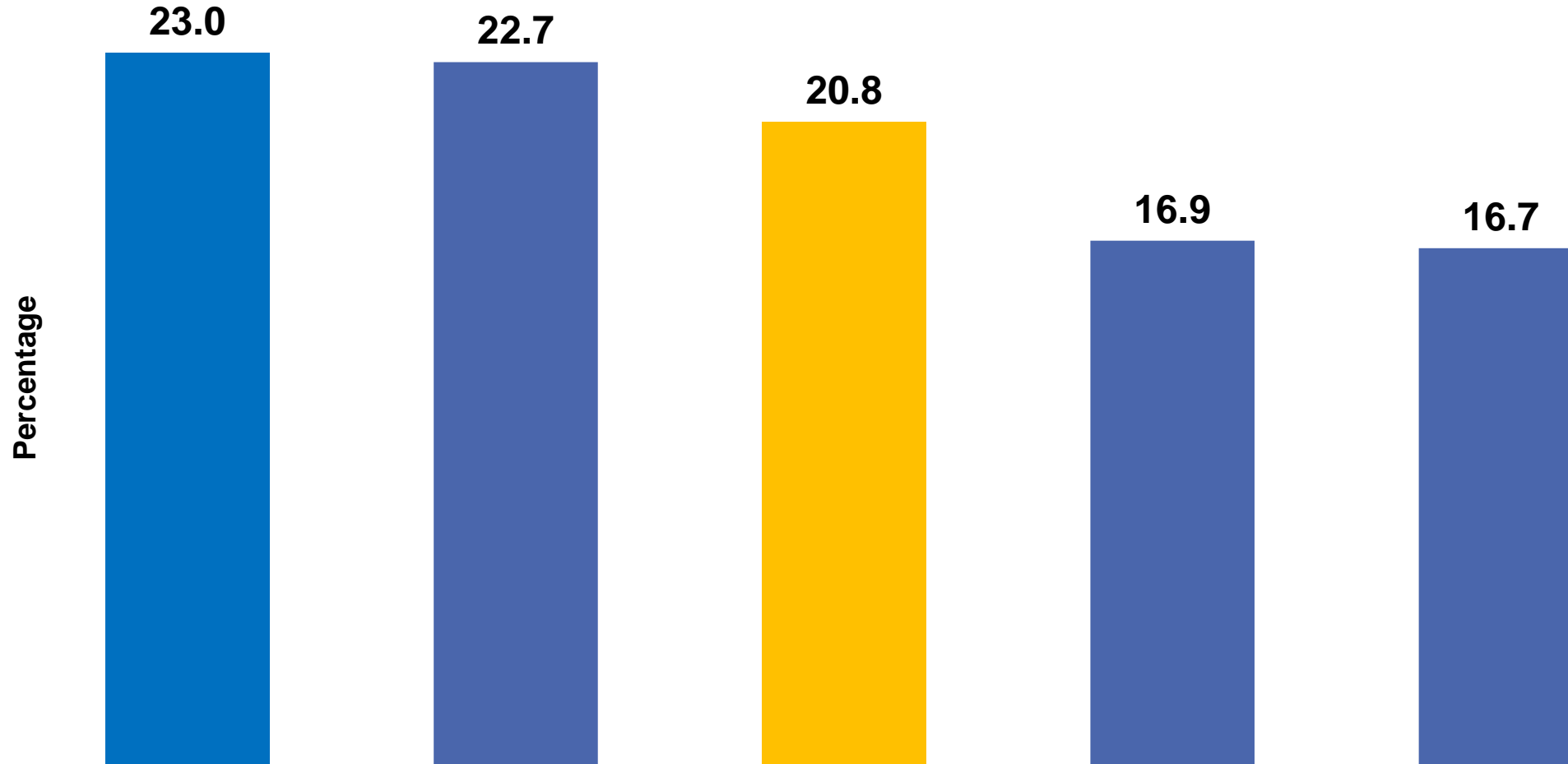


23% Exotic Cattle

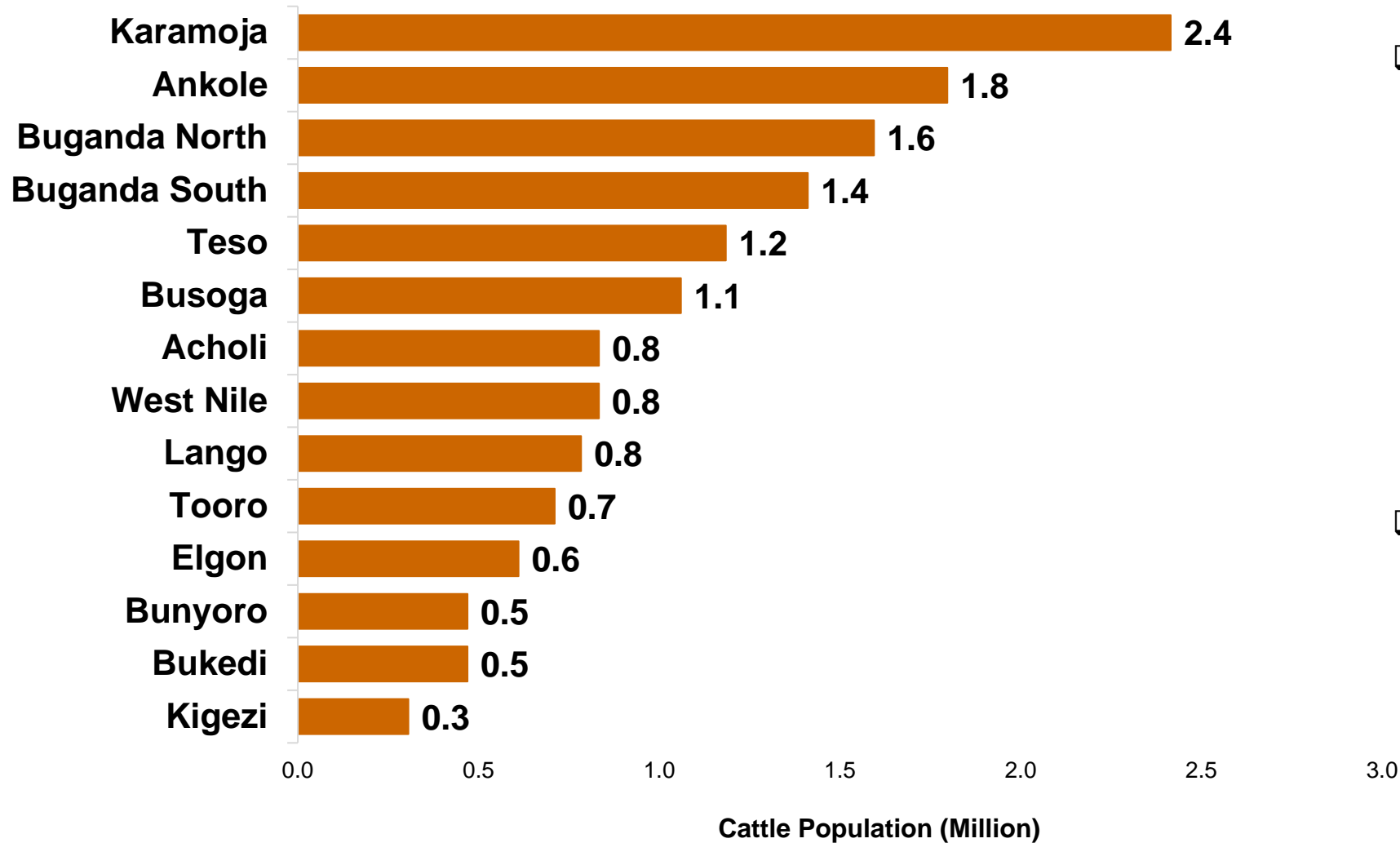




Cattle Population, by region



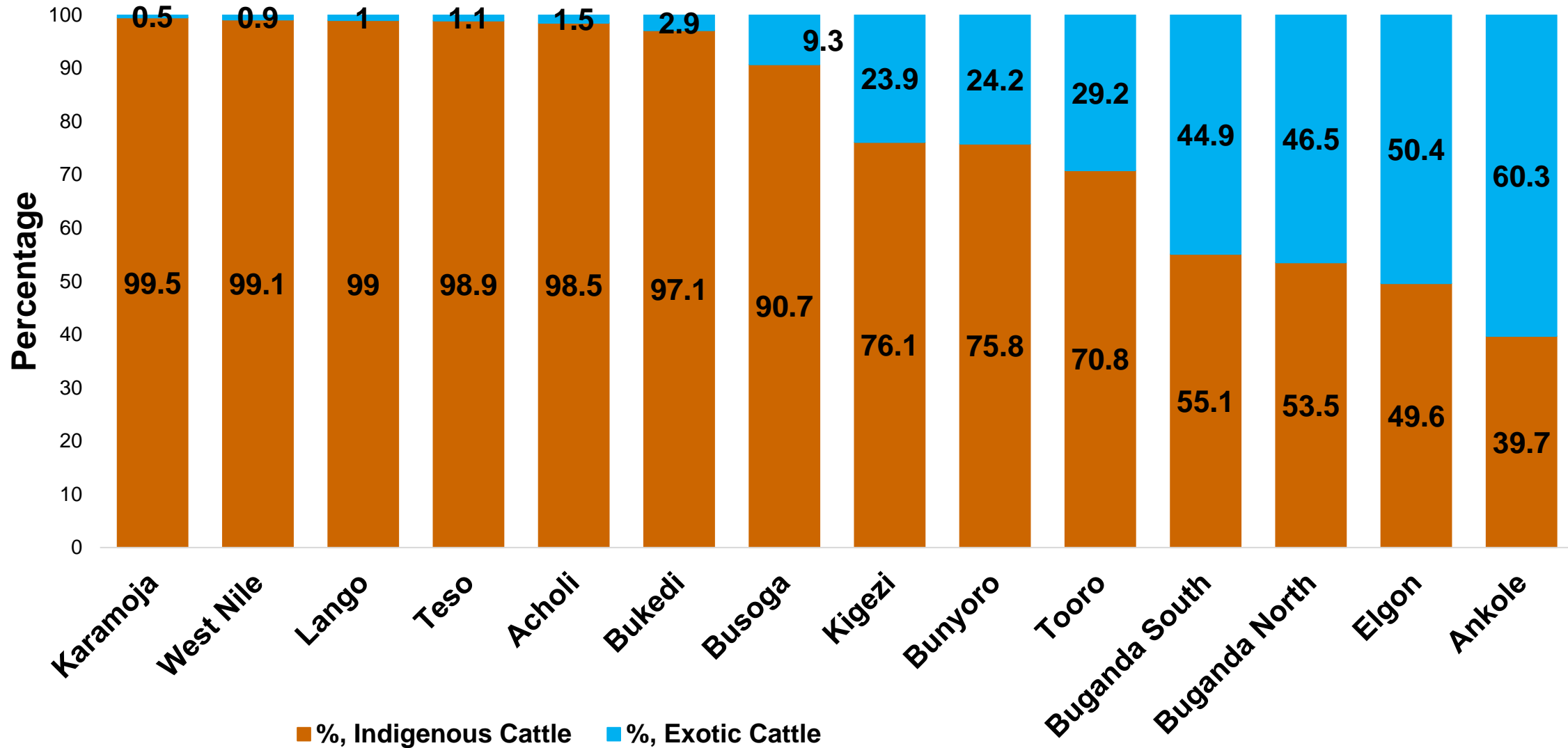
Cattle Population by Sub-region



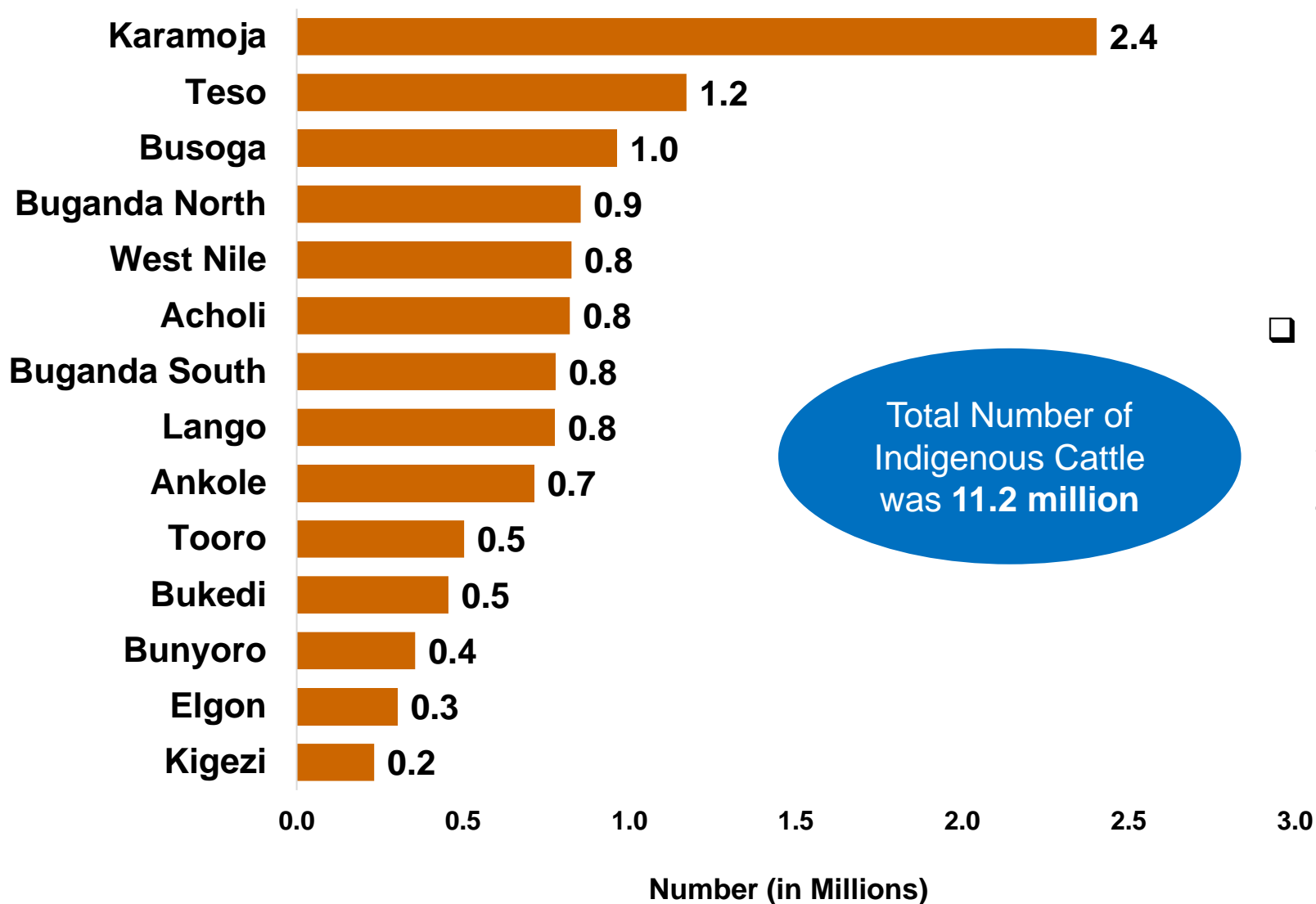
□ Karamoja sub-region had the highest cattle population with 2.4 million, followed by Ankole with 1.8 million and Buganda North with about 1.6 million.

□ Bukedi with 0.5 million, Bunyoro with 0.5 million and Kigezi with 0.3 million had the lowest cattle population

Cattle Population by Breed and Sub-region



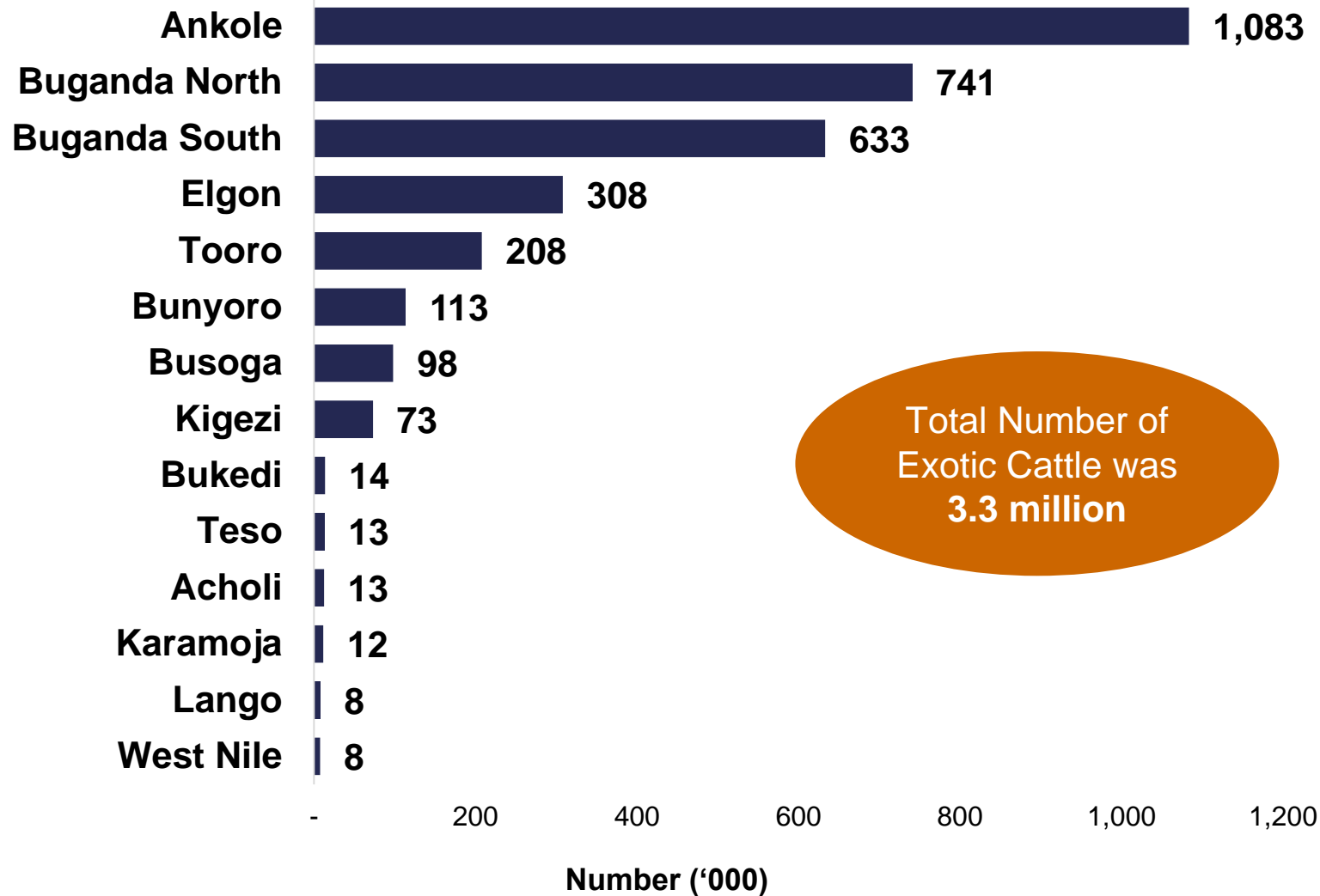
Where are the Indigenous Cattle in Uganda?



□ Karamoja had the highest number of indigenous cattle with 2.4 million, followed by Teso with 1.2 million.

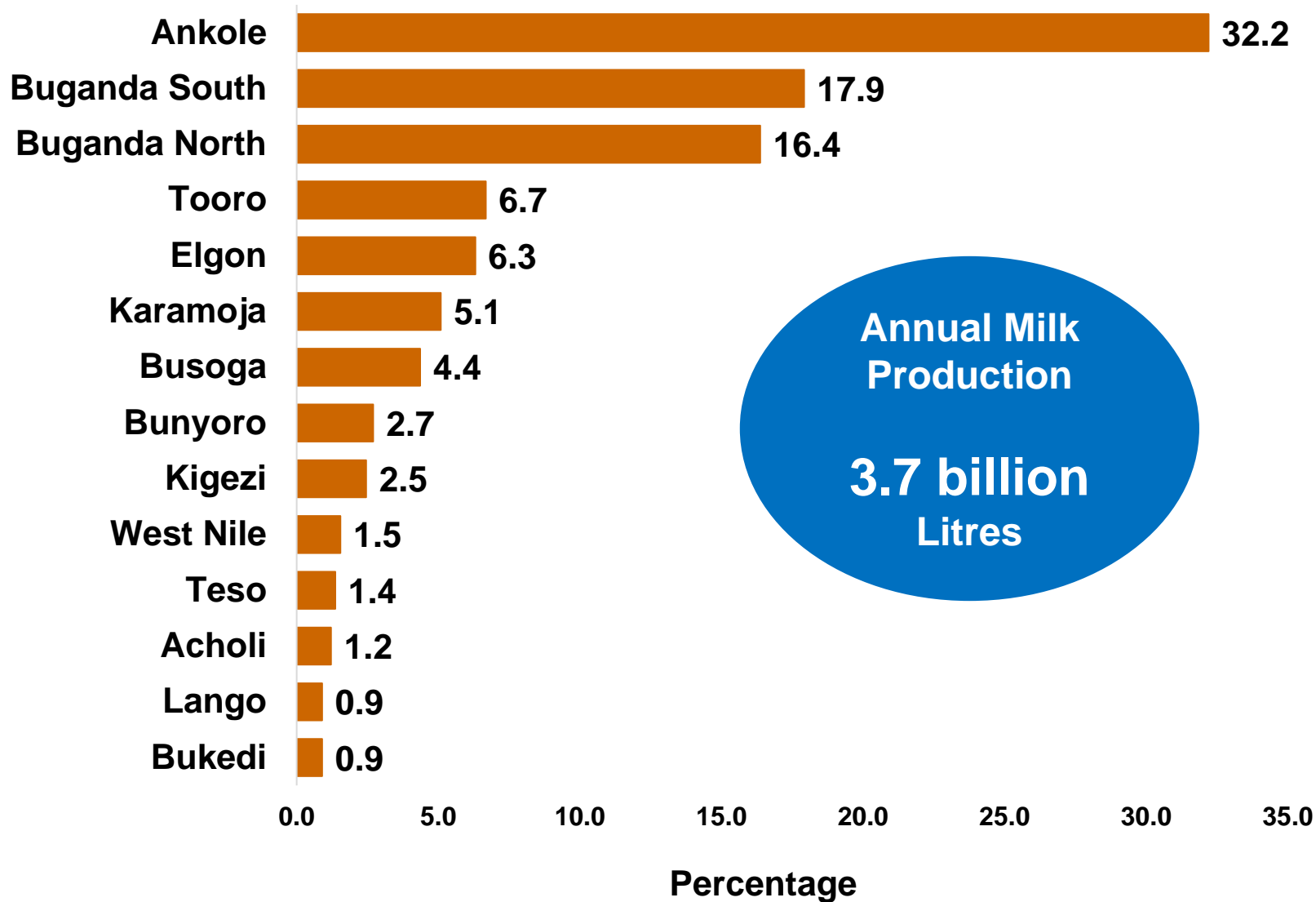


Where are the Exotic Cattle in Uganda?



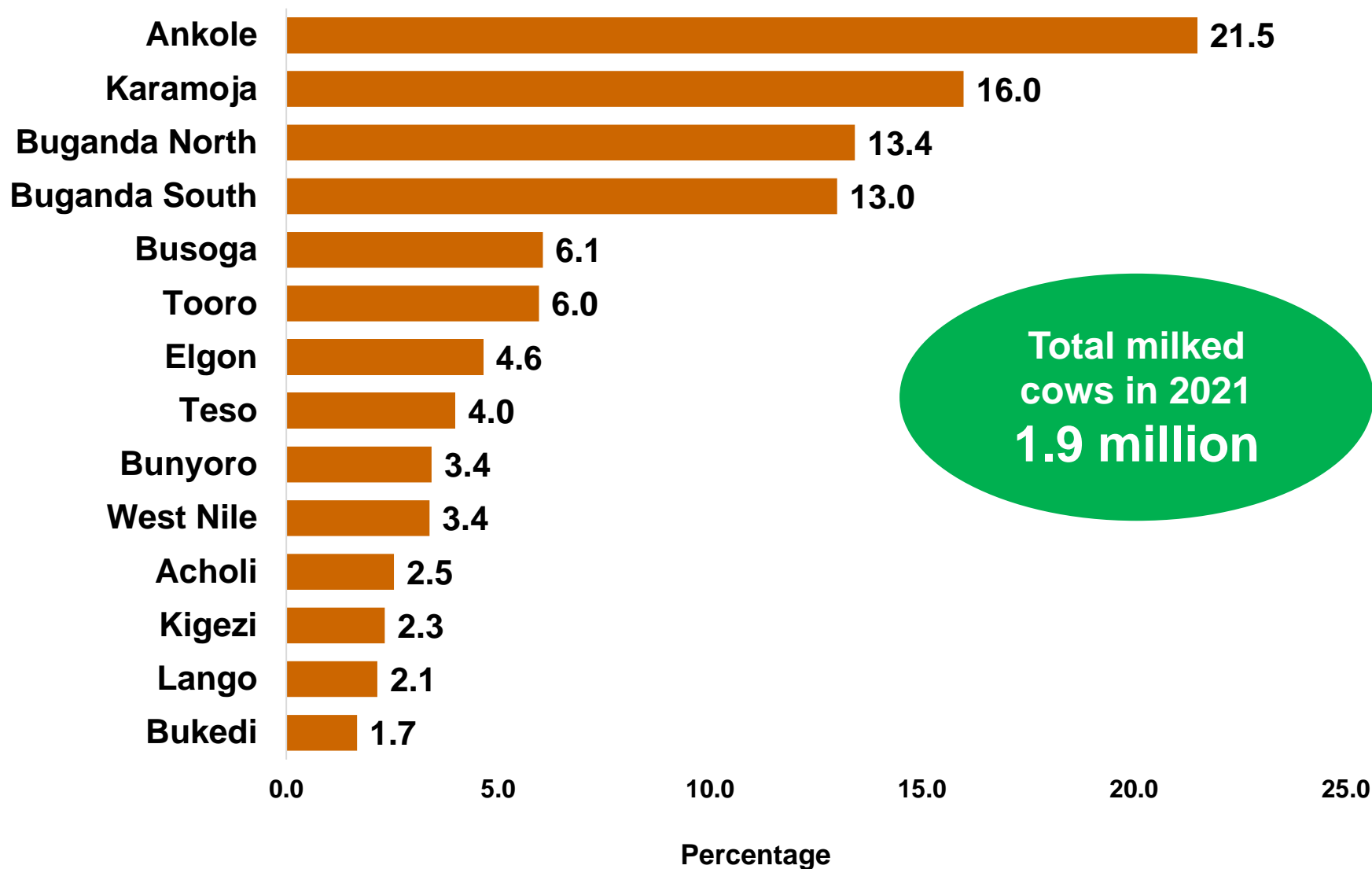
- Ankole had the highest population of Exotic cattle with about 1.1 million, followed by North Buganda 741,000, while West Nile had the least population with 8,000

Where is Milk Produced in Uganda?



- Ankole had the highest contribution of 32.2% to the total milk produced.
- This was followed by Buganda South with 17.9% and Buganda North with 16.4%
- Bukedi and Lango had the lowest contribution of about 1% each.

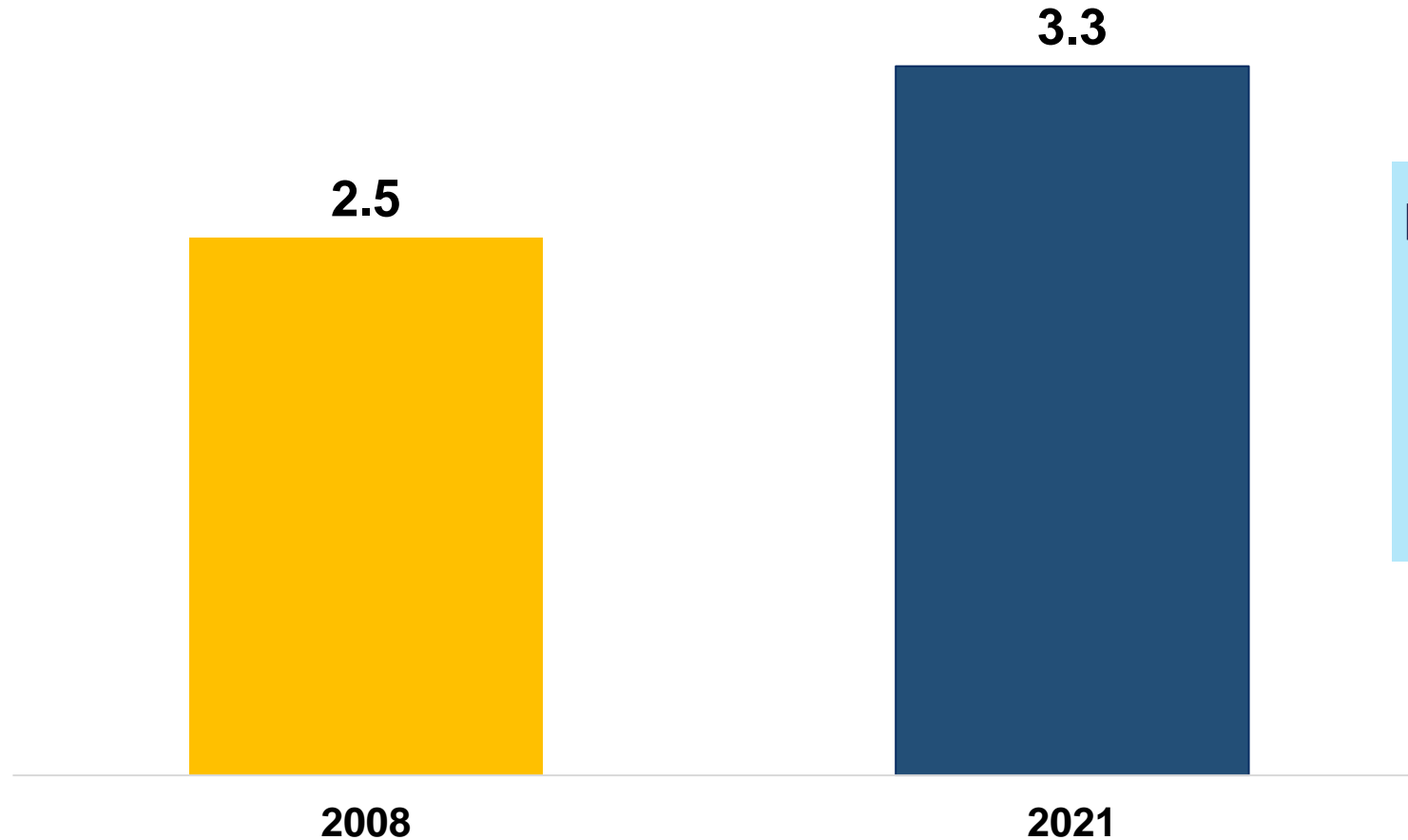
Where are the Milked Cows in Uganda?



Goat Population



Goat-Keeping HHs in Millions



Percentage Change

Between 2008 and 2021 the number of goat-keeping HH increased by

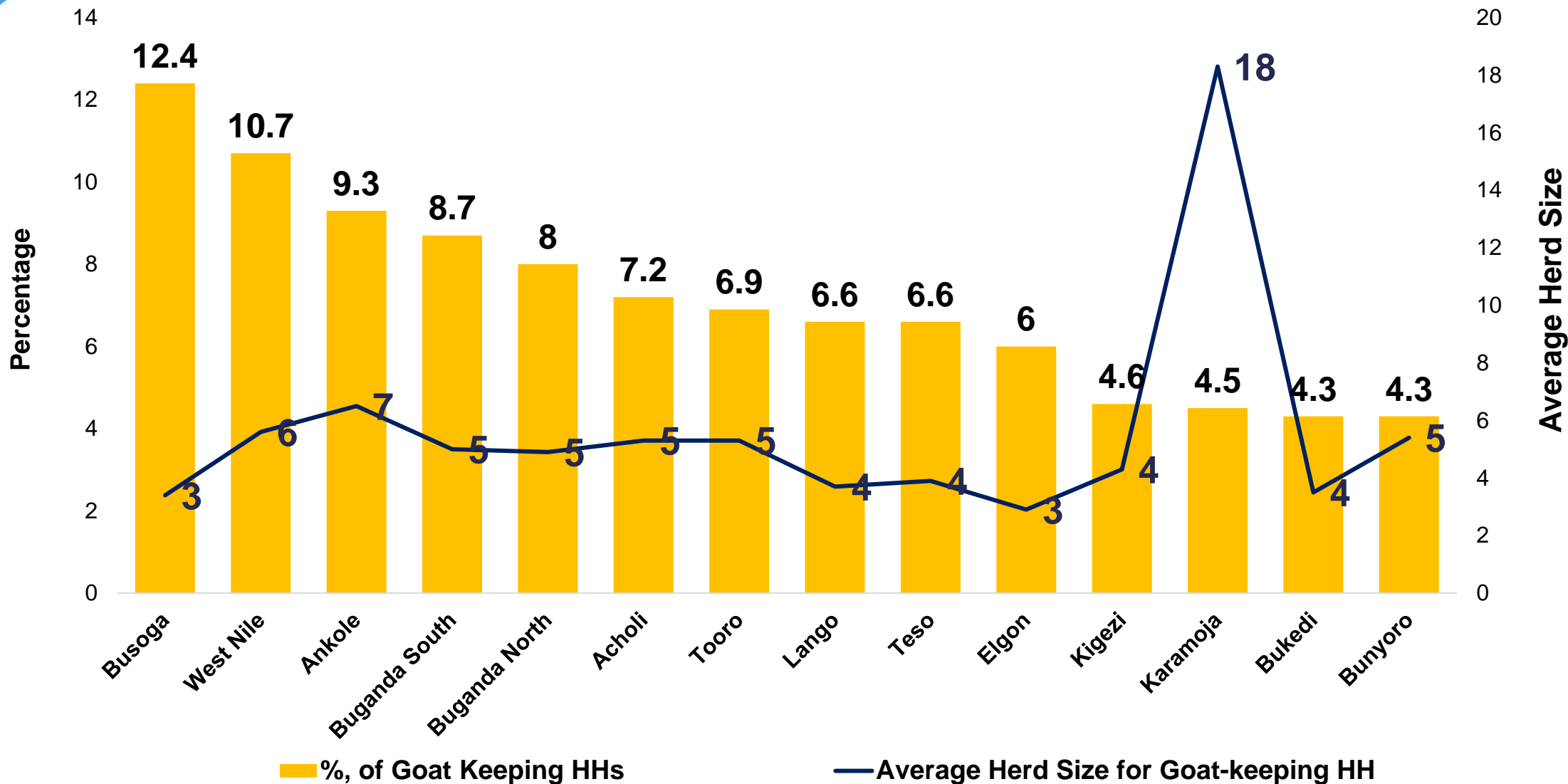
32%



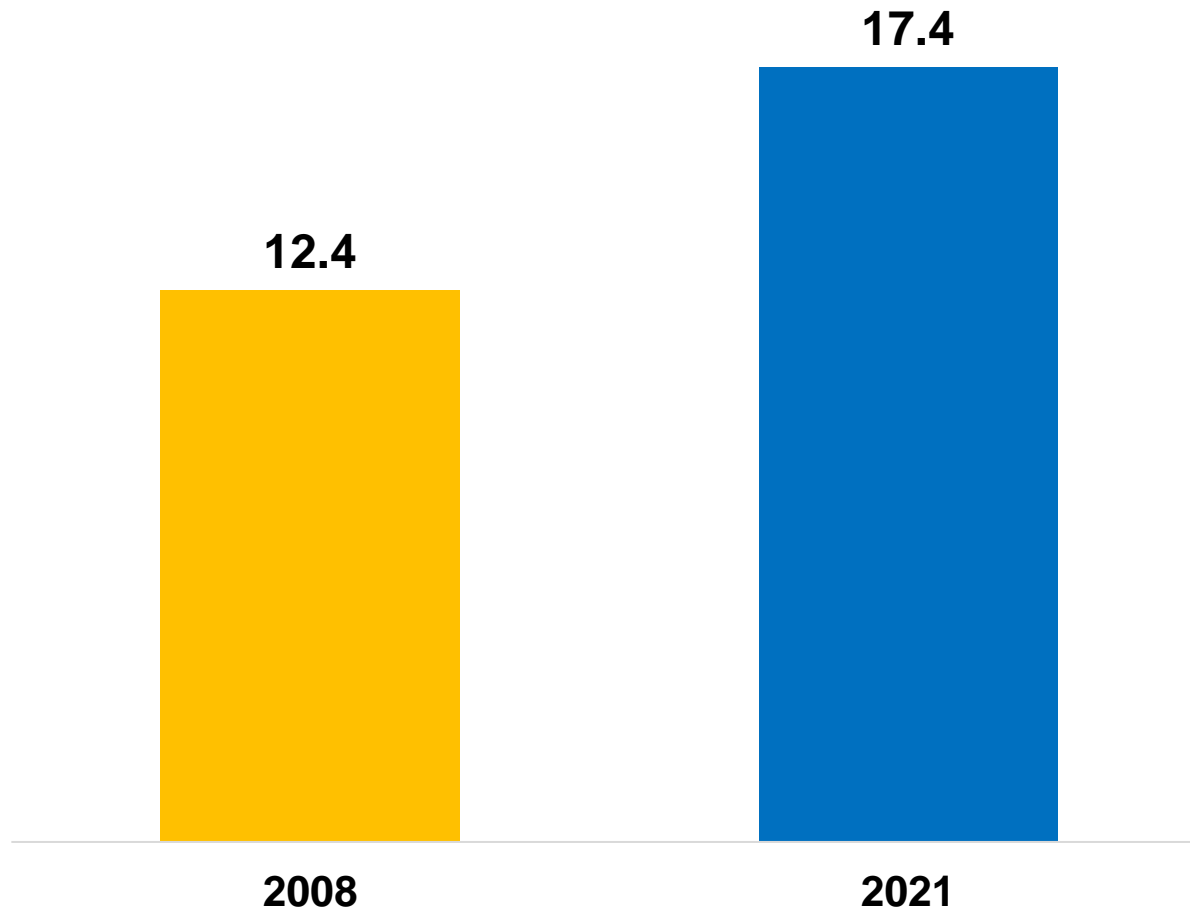
Goat-Keeping Households & Average Herd Size, by Sub-region



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Goat Population in Millions

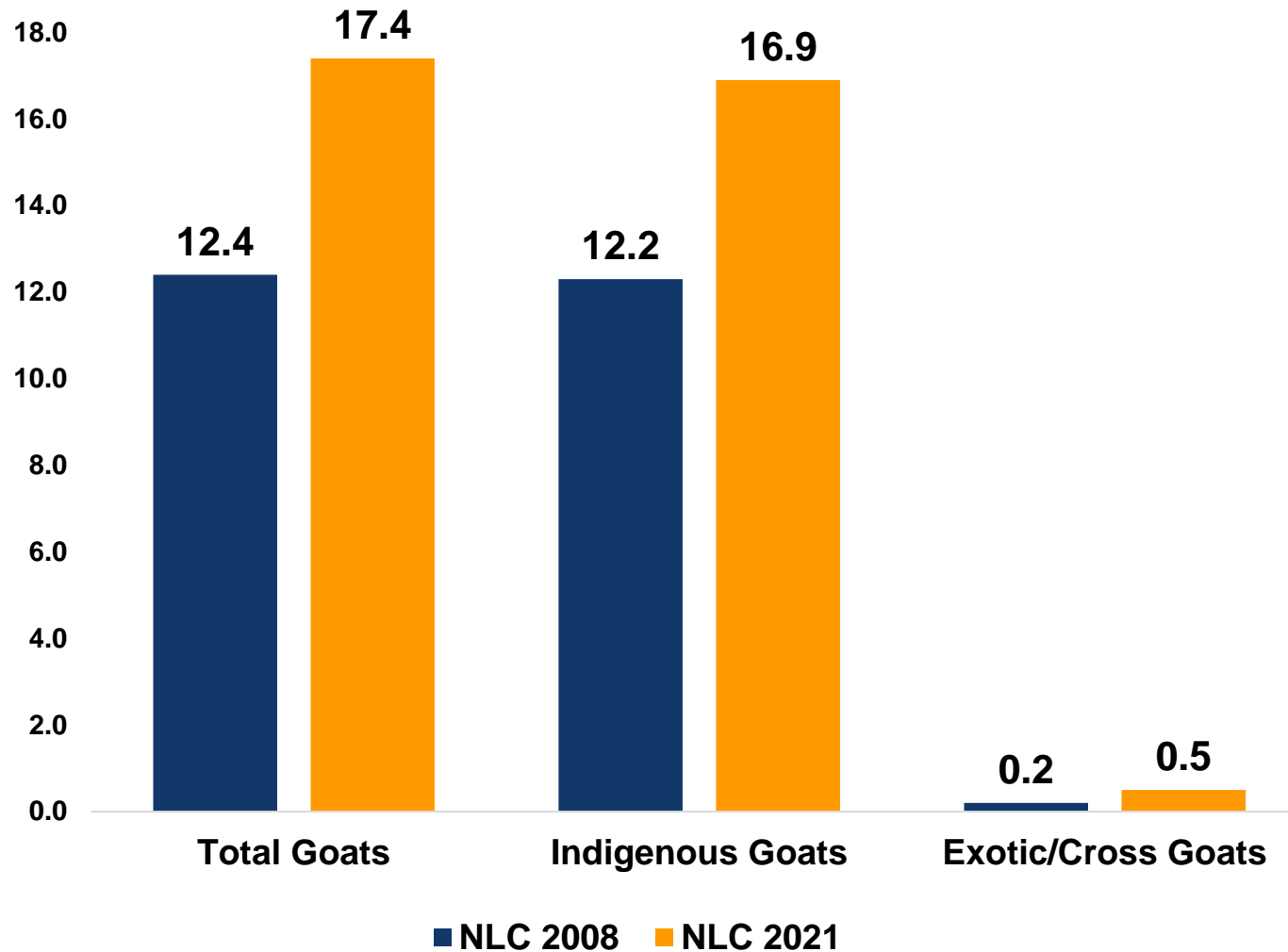


Percentage Change

Between 2008 and 2021 Goat population increased by

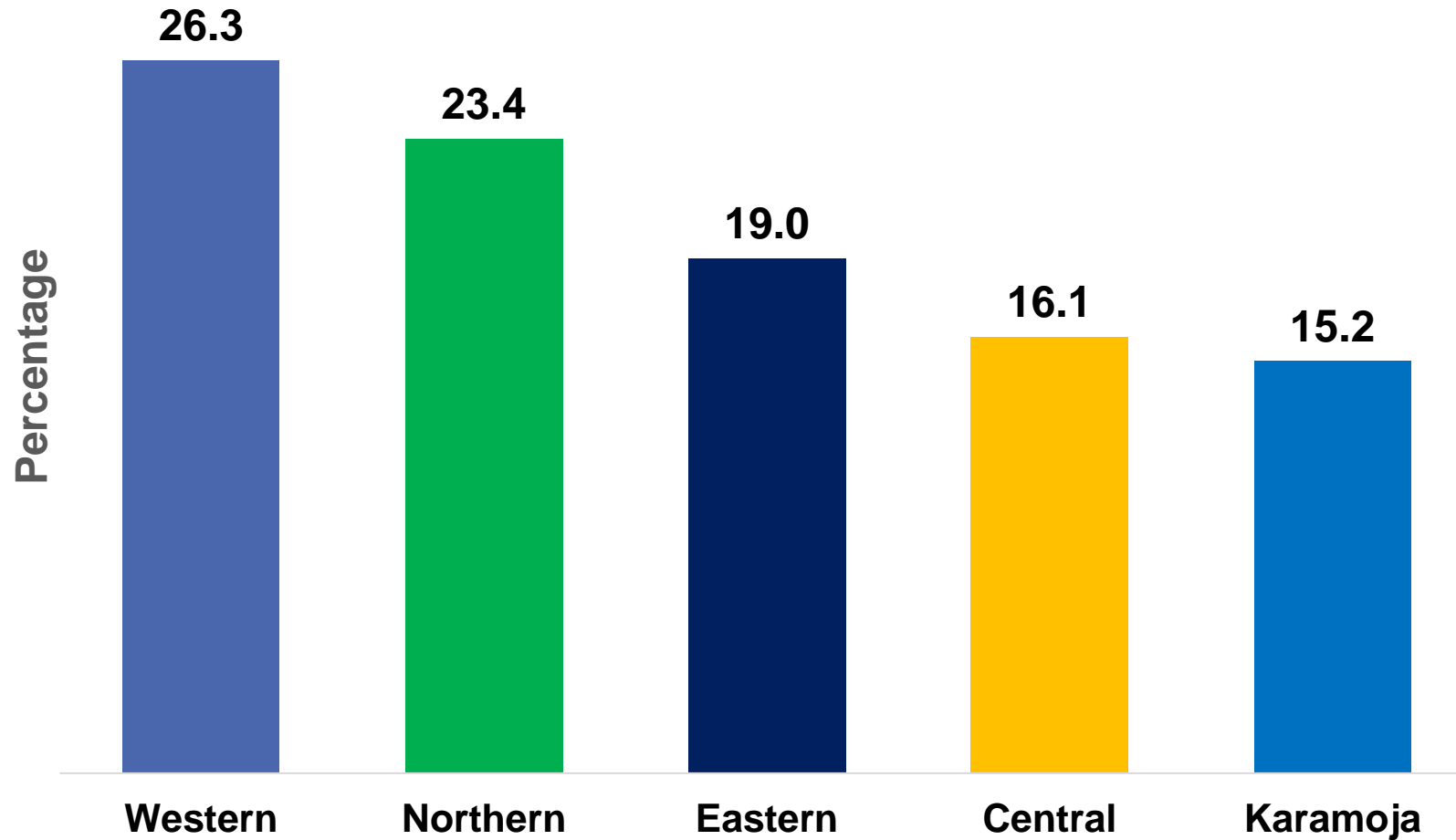
39.4%

Goat Population by Breed in Millions



- ❑ The population of indigenous goats increased to 16.9 million in 2021 from 12.2 million in 2008. This is 97 percent.
- ❑ The population of exotic goats was 0.5 million in 2021 compared to 0.2 million in 2008. This is an increase of about two (2) times.

Goat Population by Region

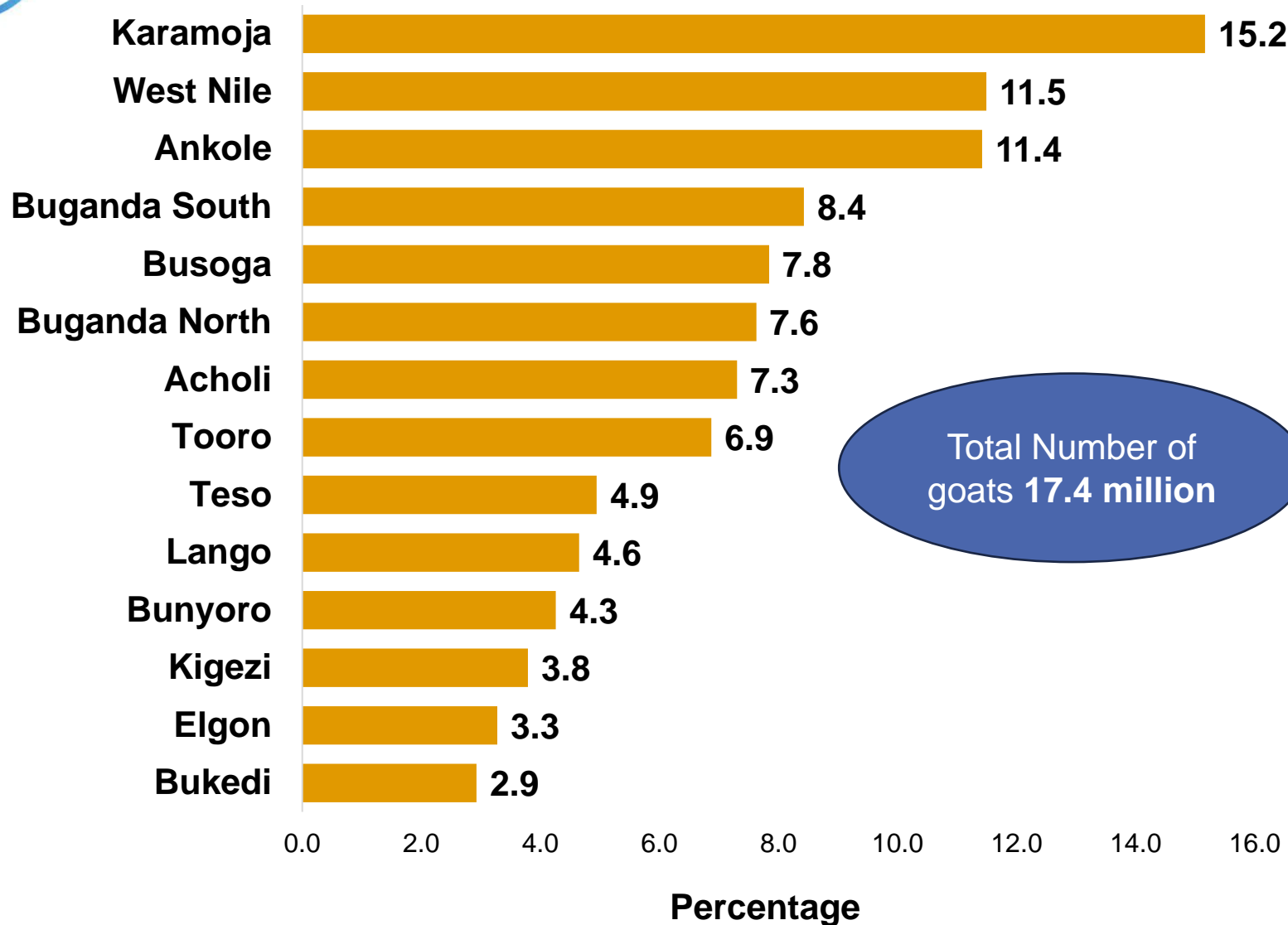




Where are the Goats in Uganda?



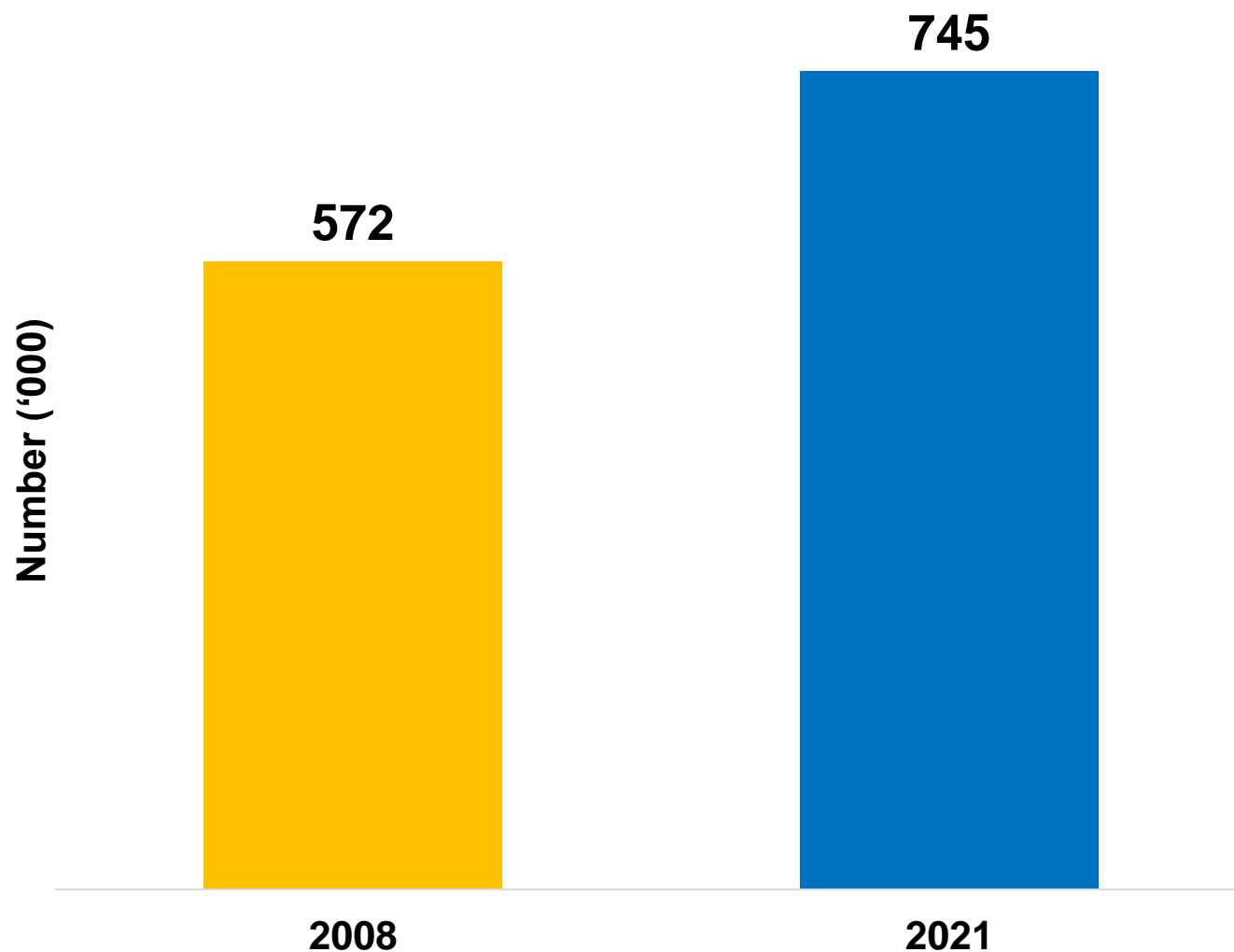
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- ❑ 15.2% (2.6 million) of the National Goat Herd was found in Karamoja sub-region.
- ❑ Followed by West Nile with 11.5% (1.99 million), and Ankole with 11.4% (1.98 million).
- ❑ Bukedi was the least with only 2.9% (0.5 million) of the national herd.

Sheep Population





Percentage Change

Between 2008 and 2021 the number of Sheep-keeping HH increased by

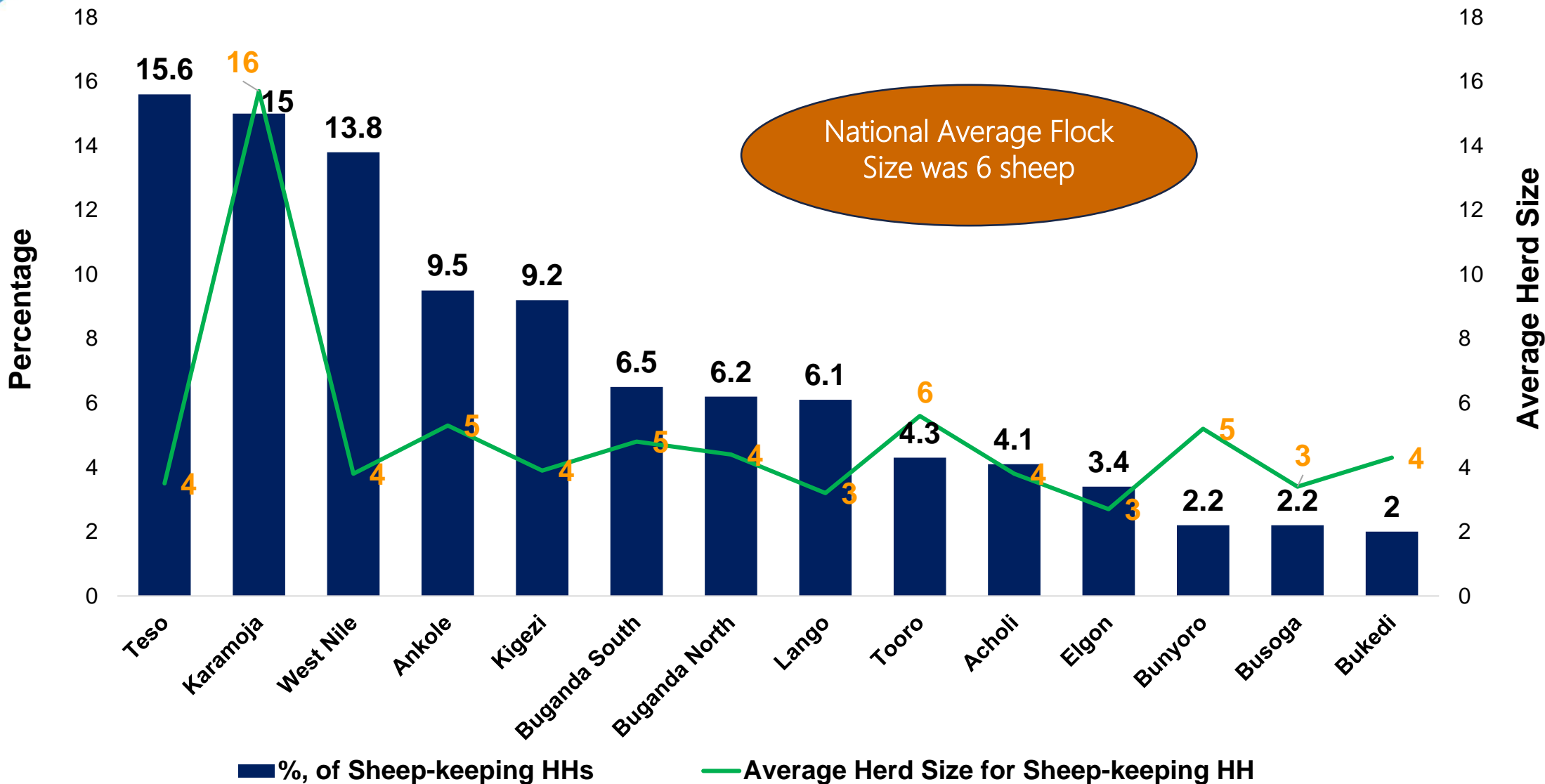
30.3%



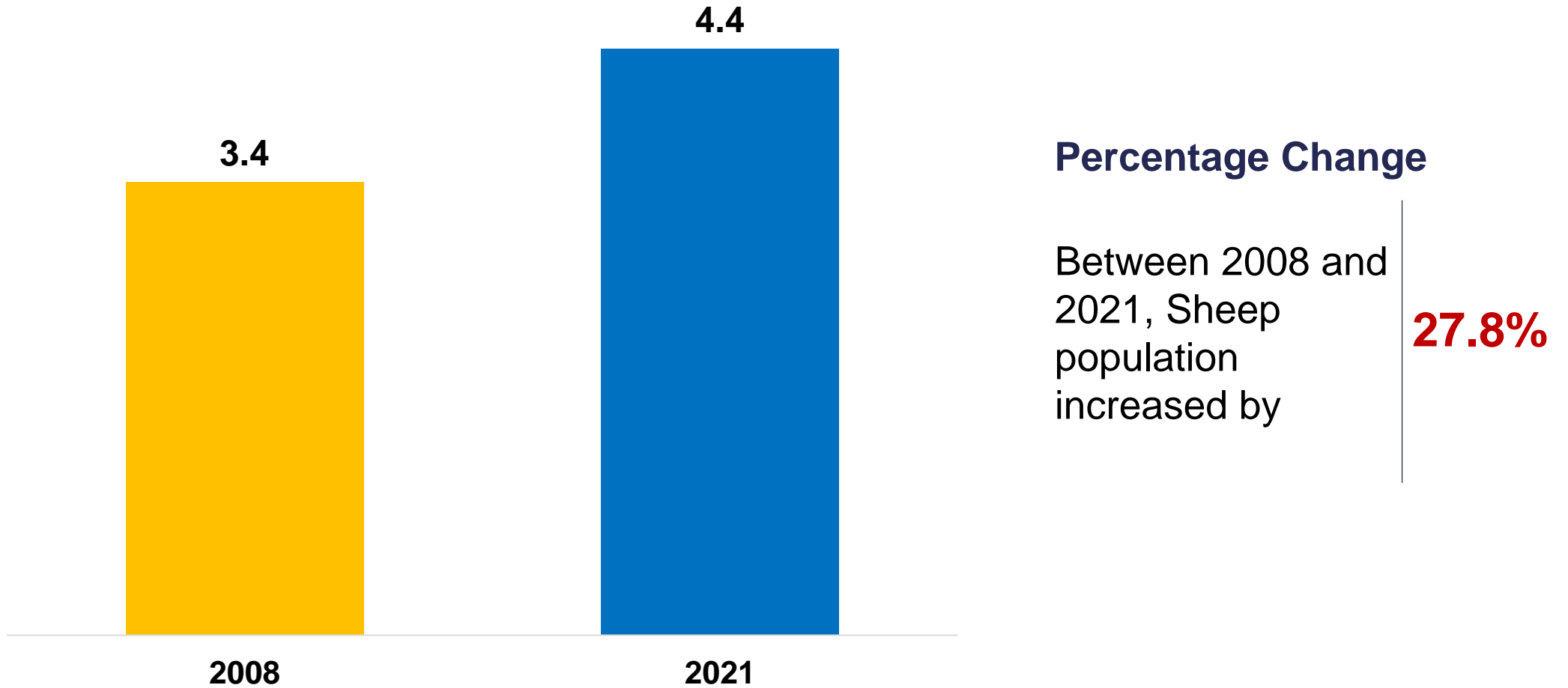
Sheep-Keeping Households & Average Herd Size, by Sub-region



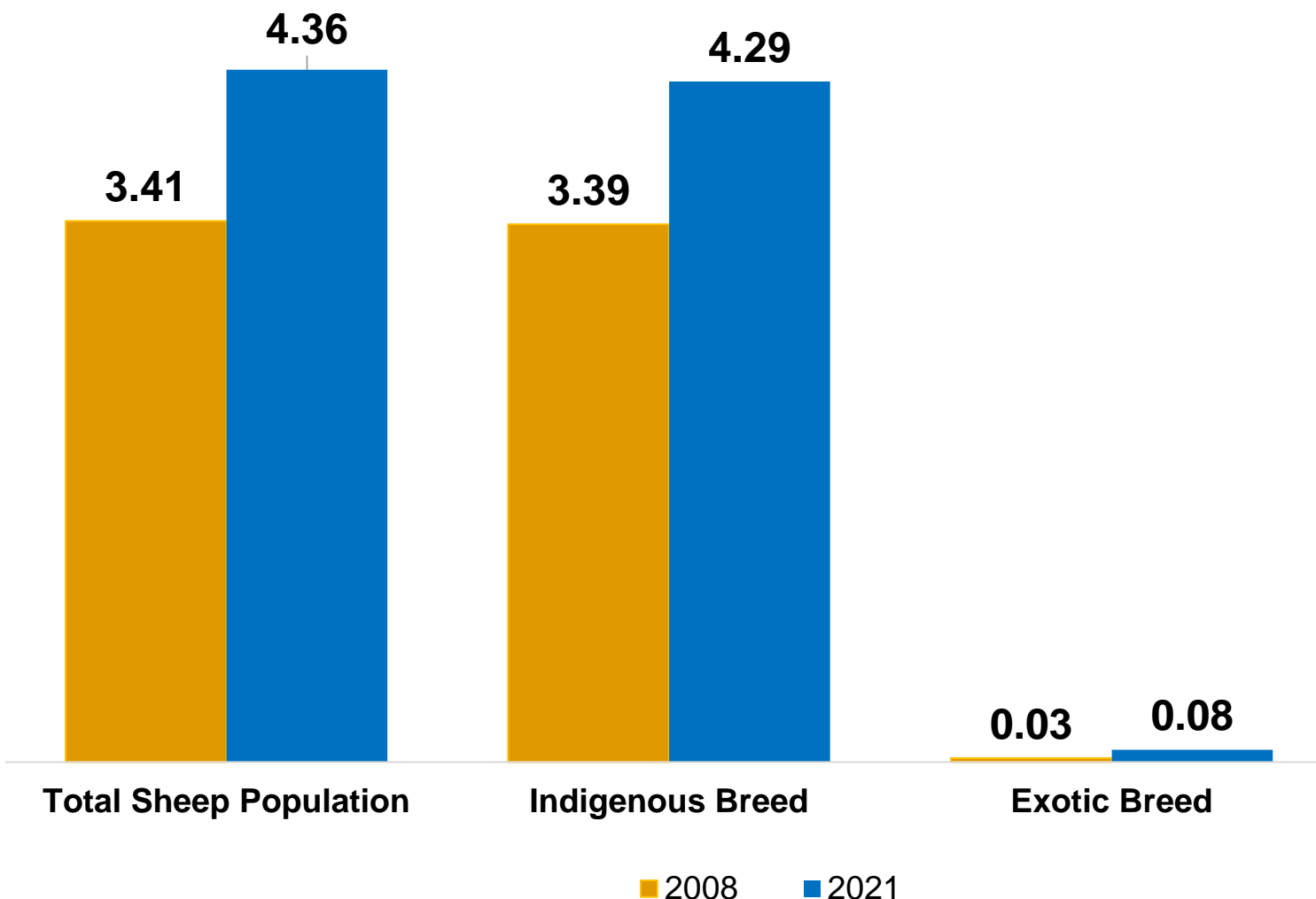
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Sheep Population in Millions



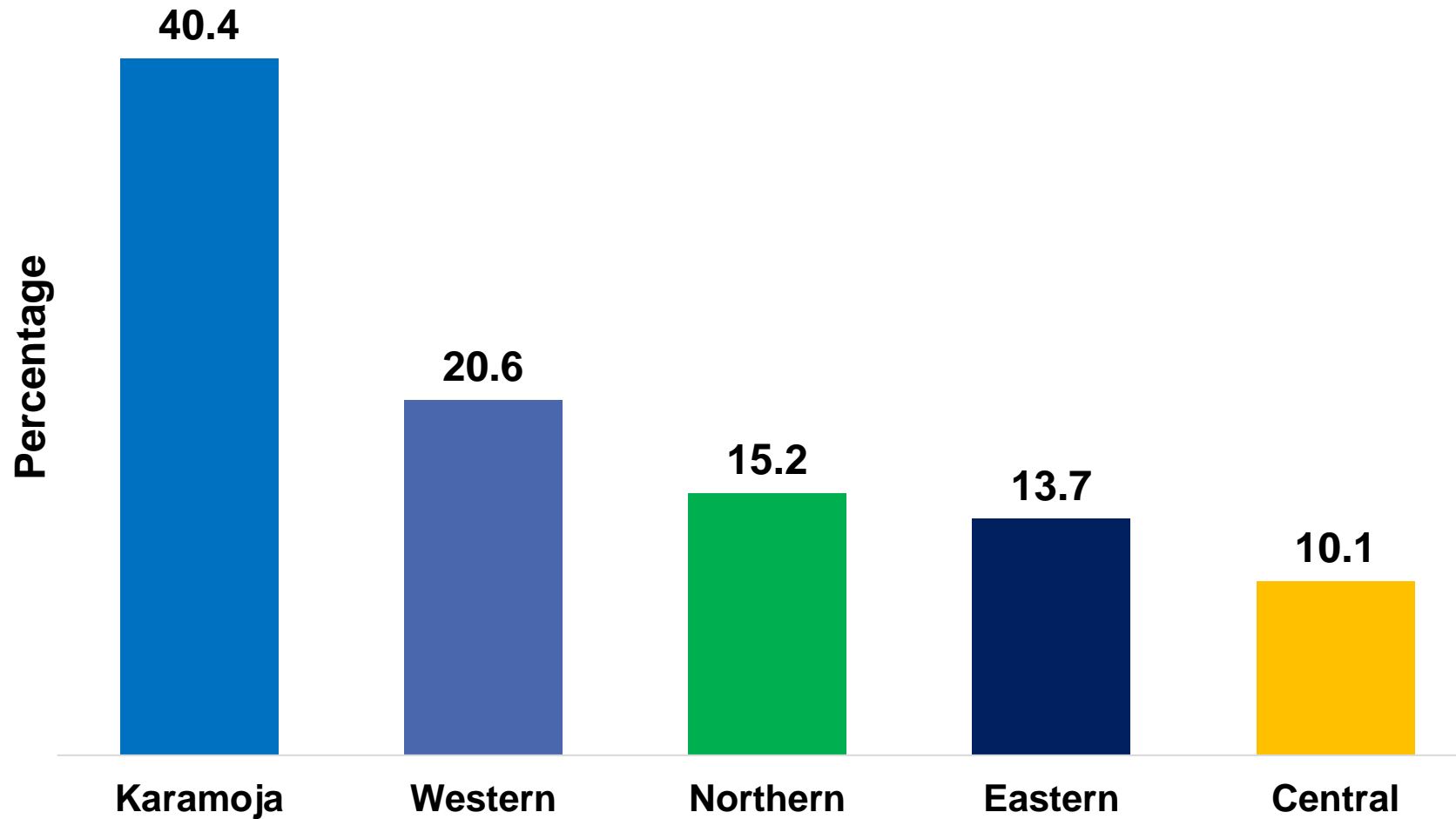
Sheep Population by Breed in Million



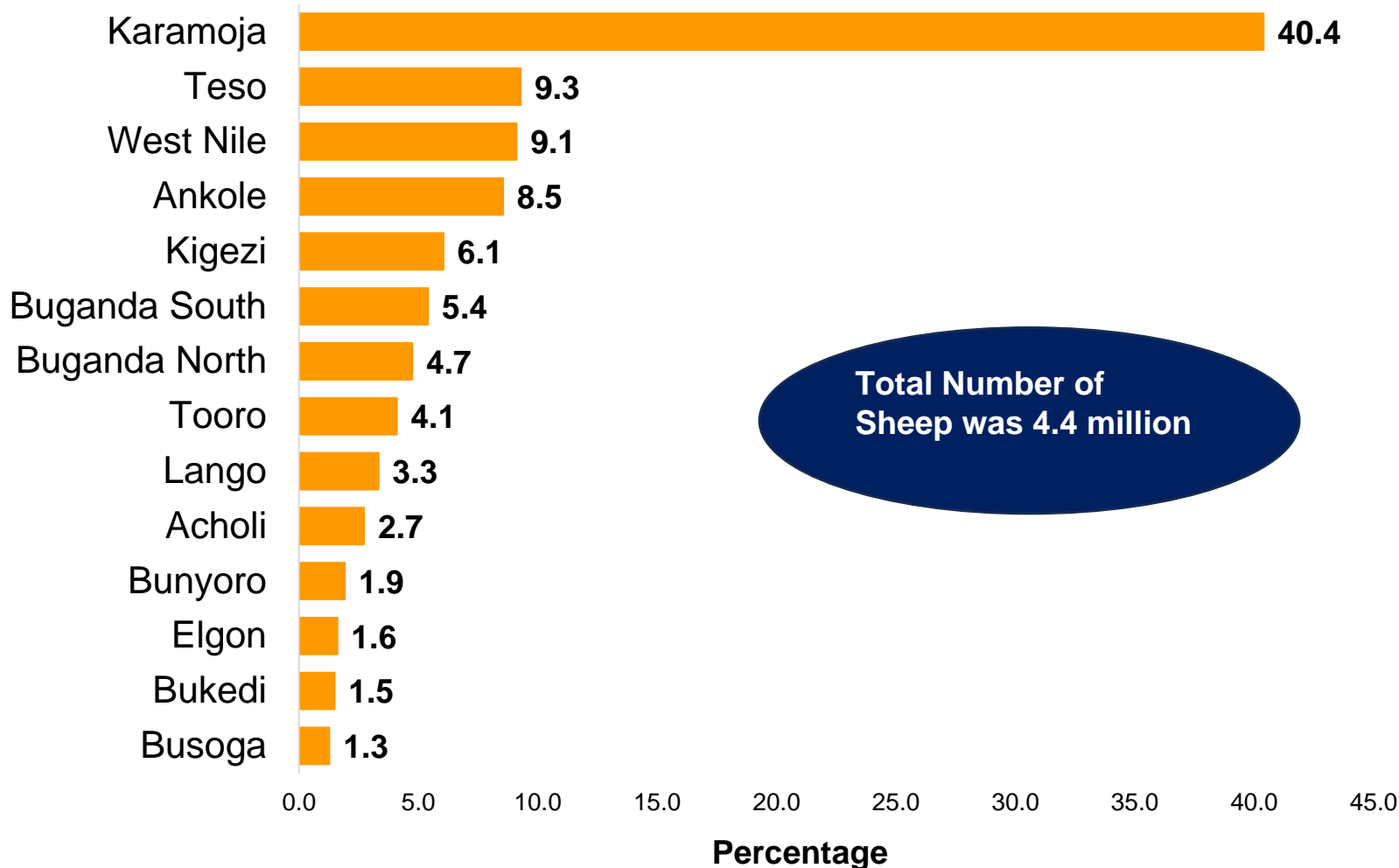
- ❑ 4.3 million of the national sheep flock was indigenous sheep compared to 3.4 million in 2008. This is an increase of 26.6 percent.
- ❑ Only 0.08 million of the national flock size was exotic sheep compared to 0.03 million in 2008. This is a two-fold increase.



Sheep Population by Region



Where are the Sheep in Uganda?

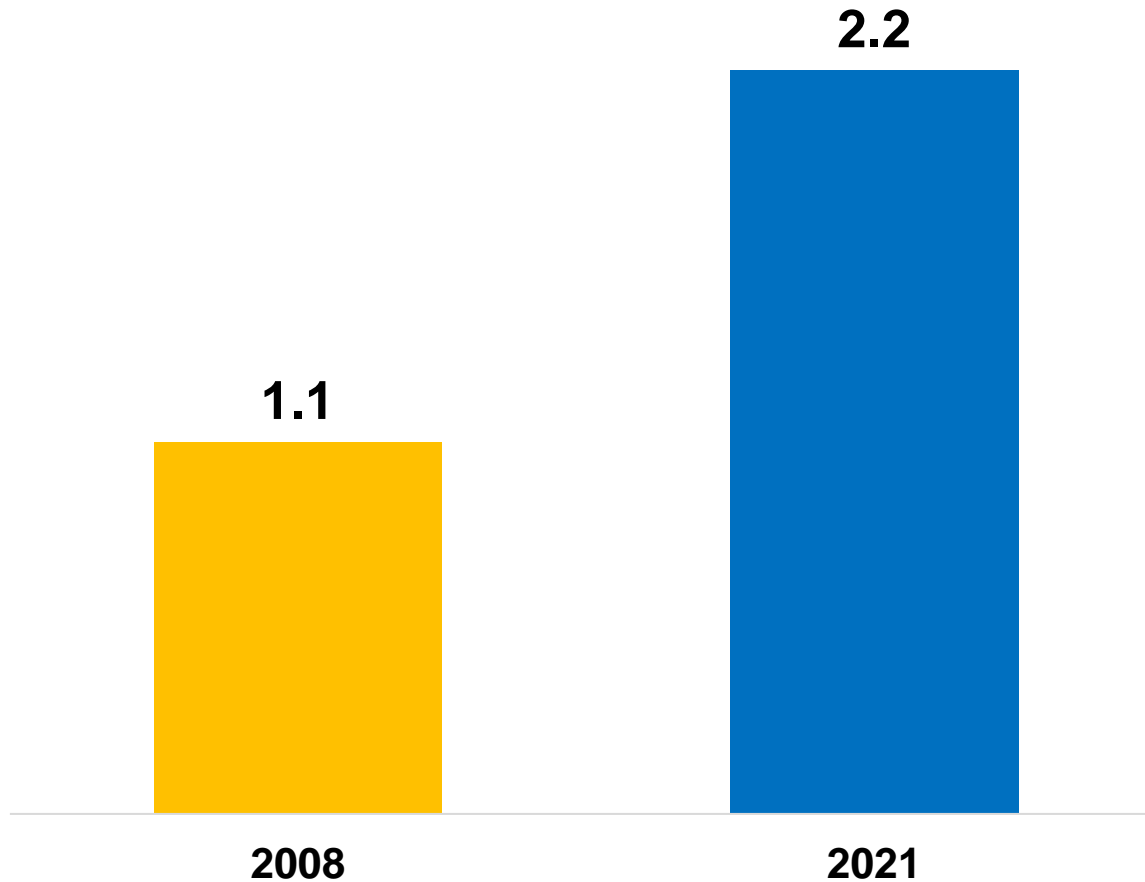


- ❑ 40% of the sheep population (1.8 million) is found in Karamoja.
- ❑ Followed by Teso with 9.3 percent (0.4 million) and West Nile with 9.1 percent (398,000).
- ❑ Busoga had the lowest sheep population with only 1.3 percent (55,000) of the national flock size.

Pig Population



Pig-Keepering HHs (Millions)



Percentage Change

Between 2008 and 2021 the number of Pig-keeping HH increased by

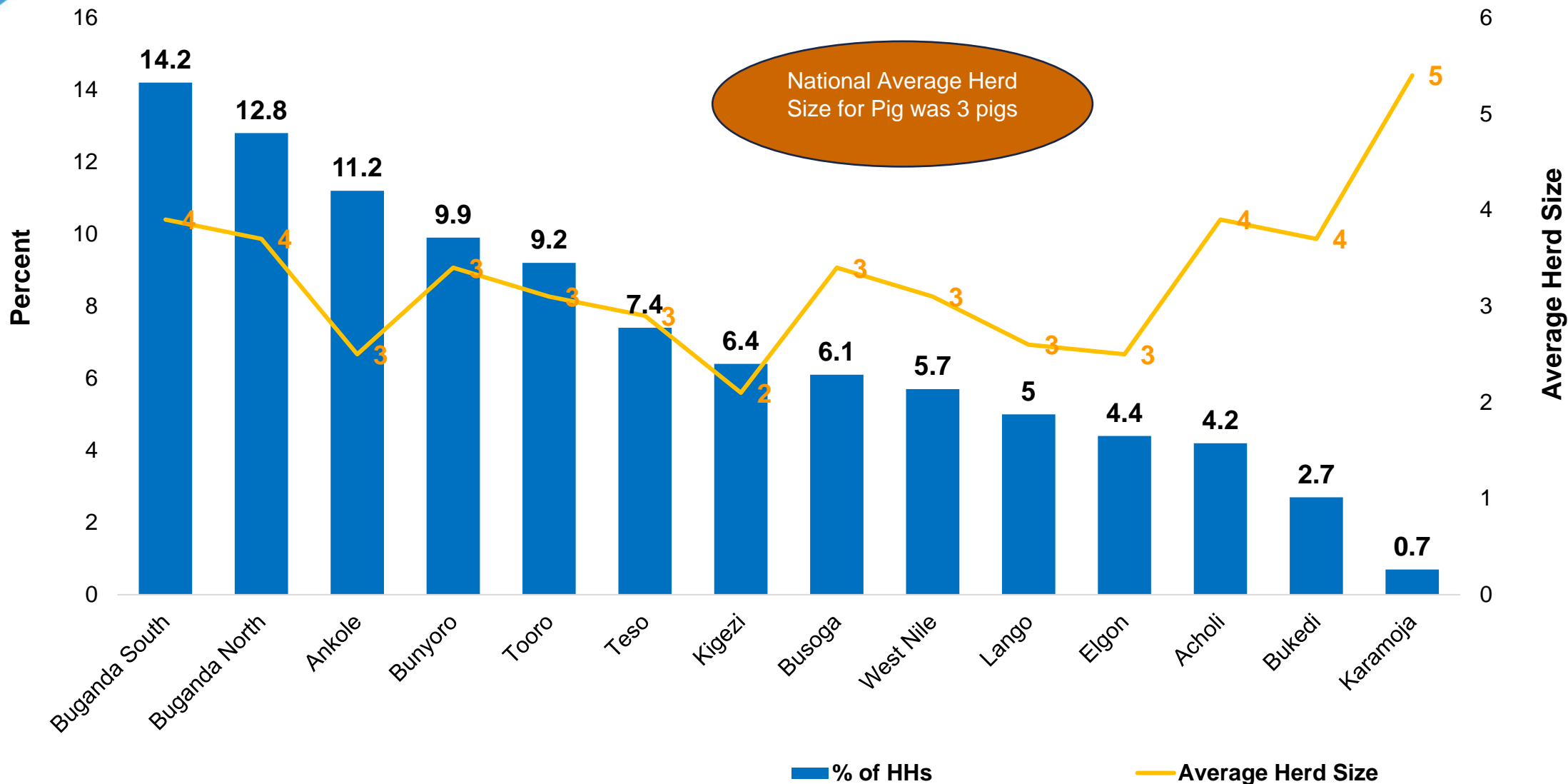
95.6%



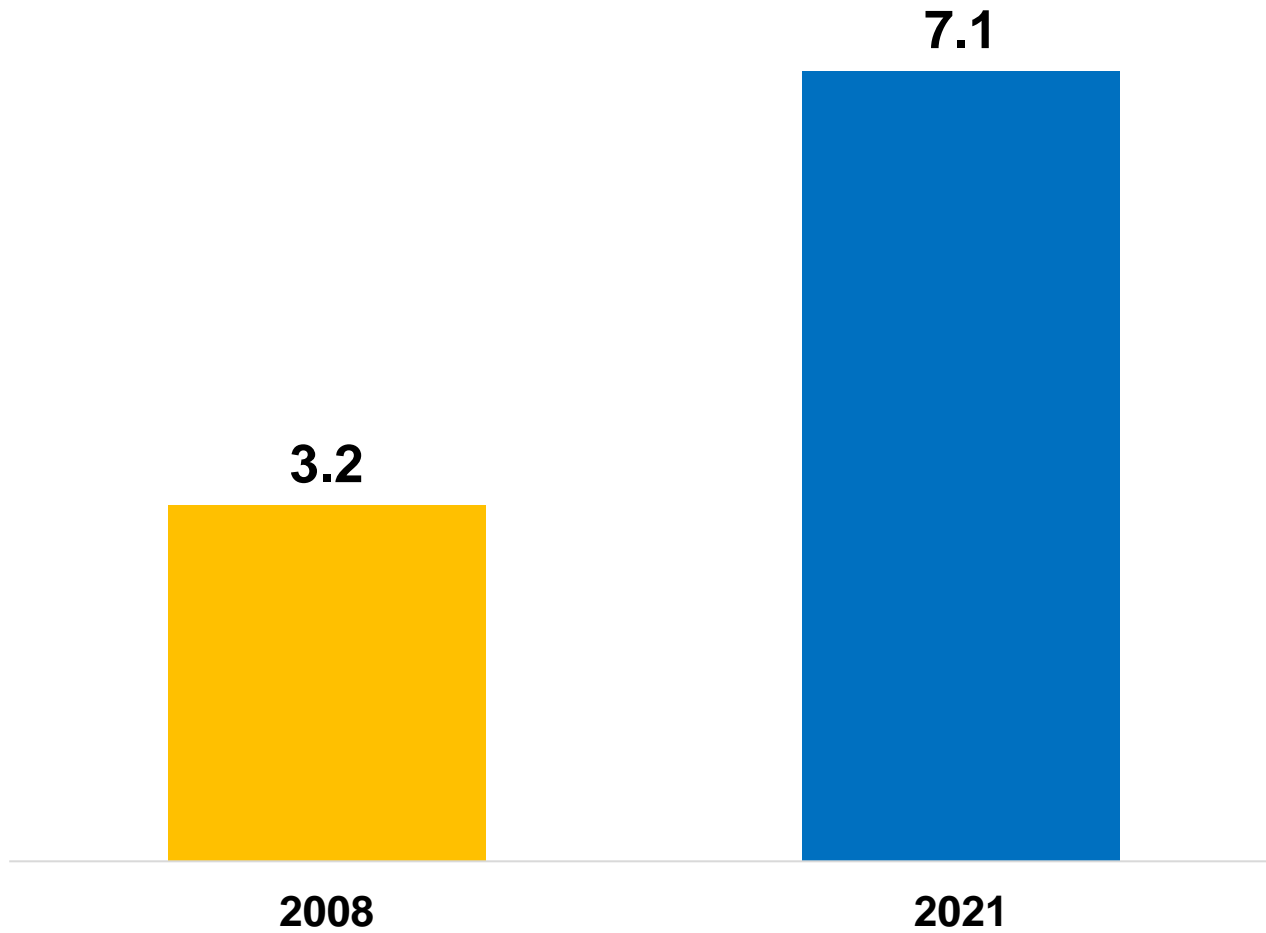
Pig-Keepering Households & Average Herd Size, by Sub-region



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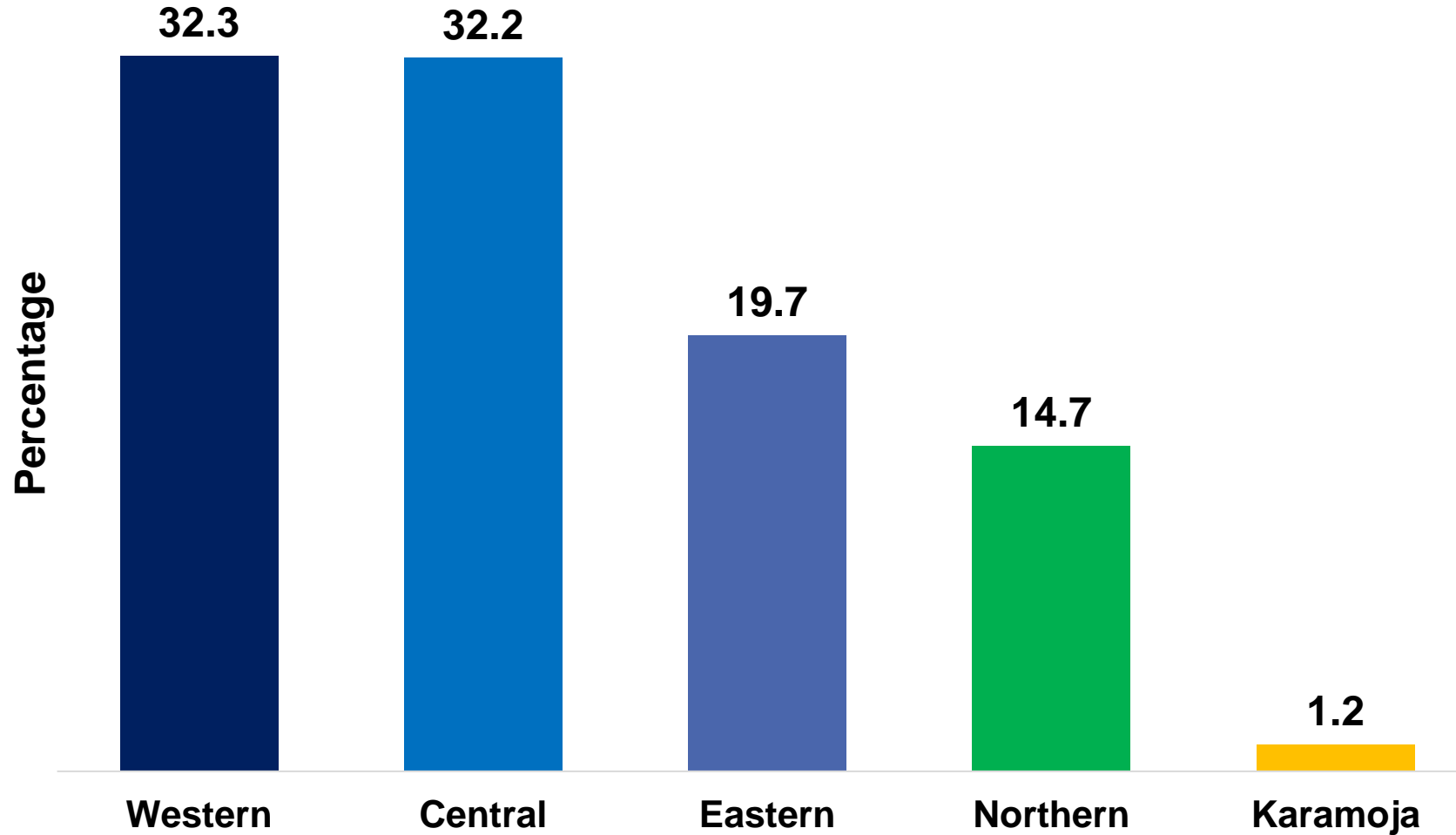
Pig Population in Millions



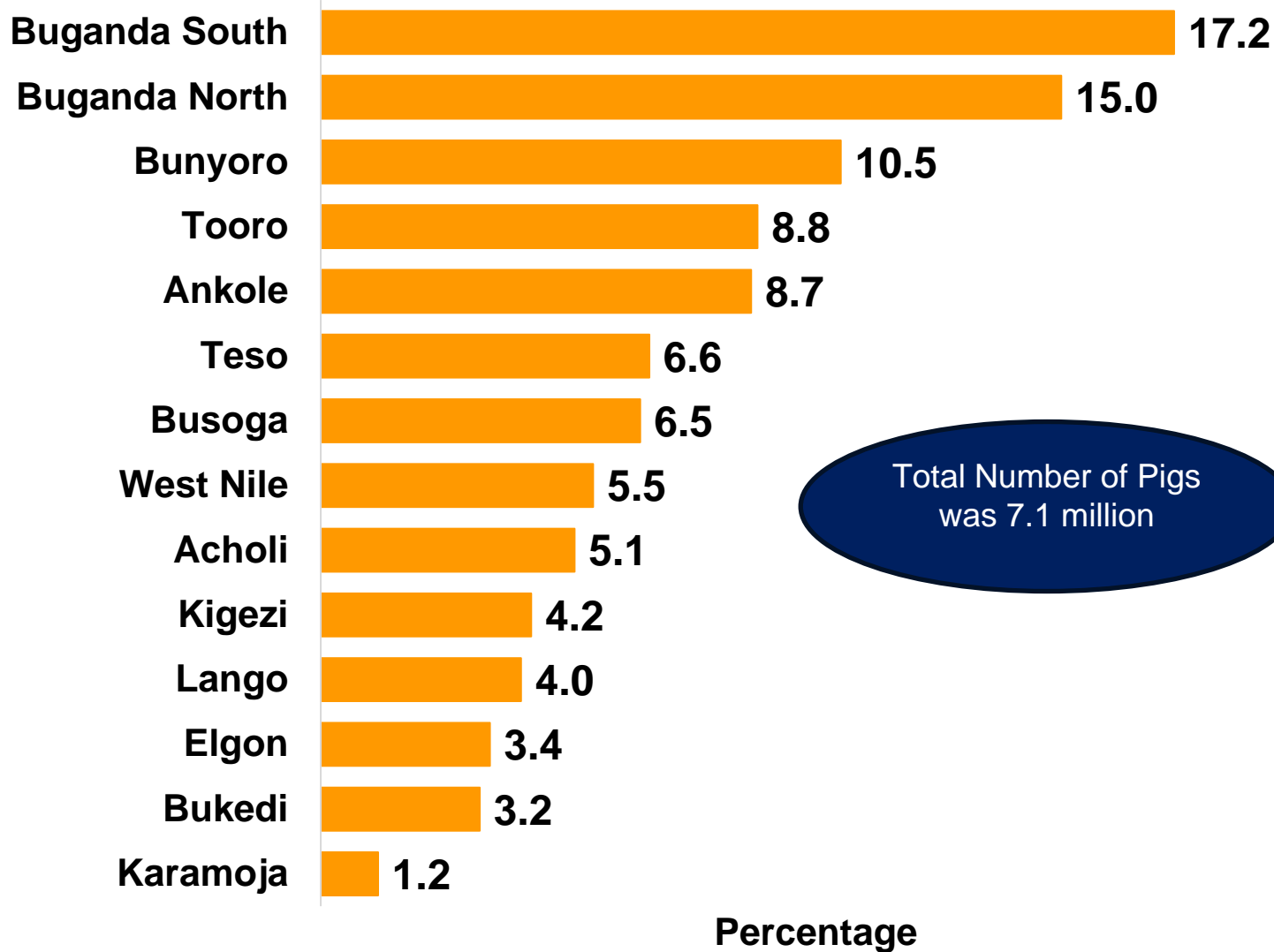
Between 2008 and 2021, pig population more than doubled



Pig Population by Region



Where are the Pigs in Uganda?

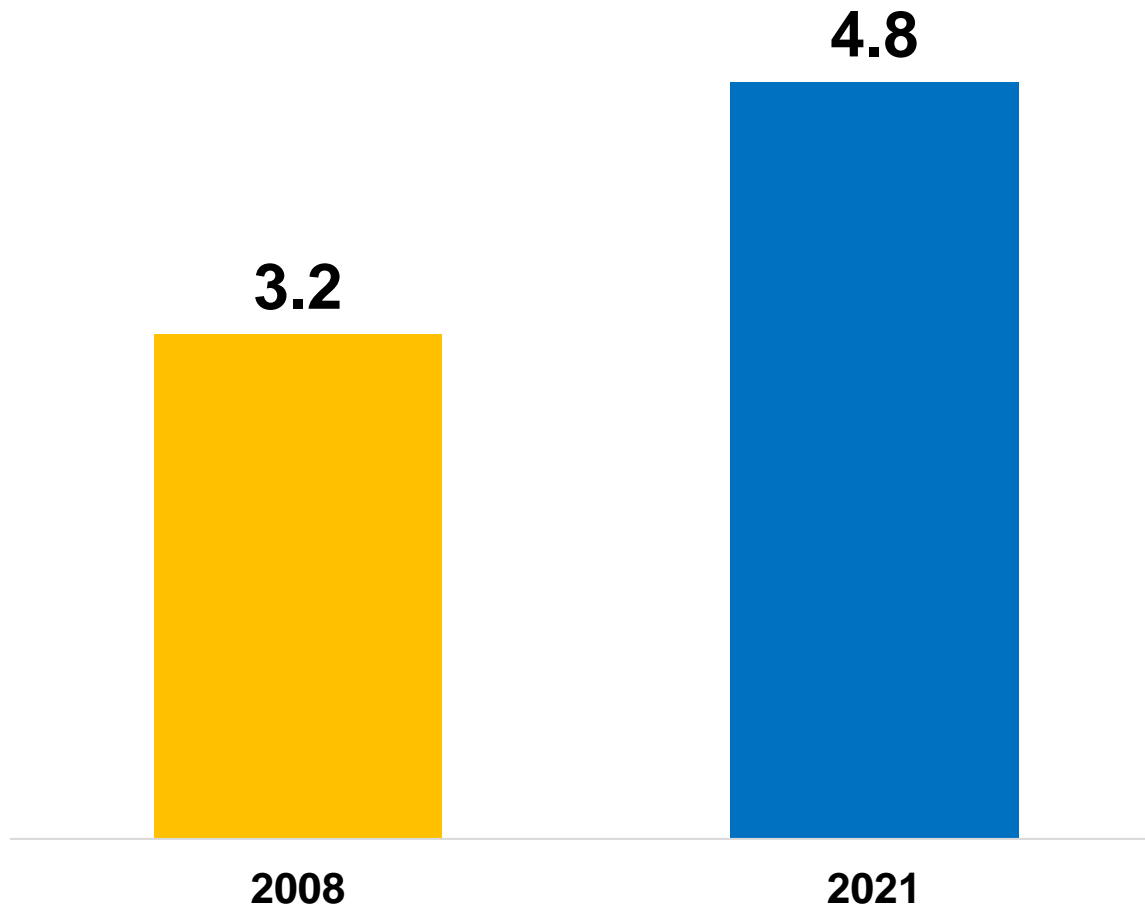


- ❑ 17.2% (1.2 million) of the national pig population was found in Buganda South.
- ❑ 15% (1.1 million) from Buganda North
- ❑ 10.5% from Bunyoro sub-region (0.7 million).
- ❑ Karamoja had the least proportion of the national pig population with 1.2% (82,000 pigs).

Chicken Population

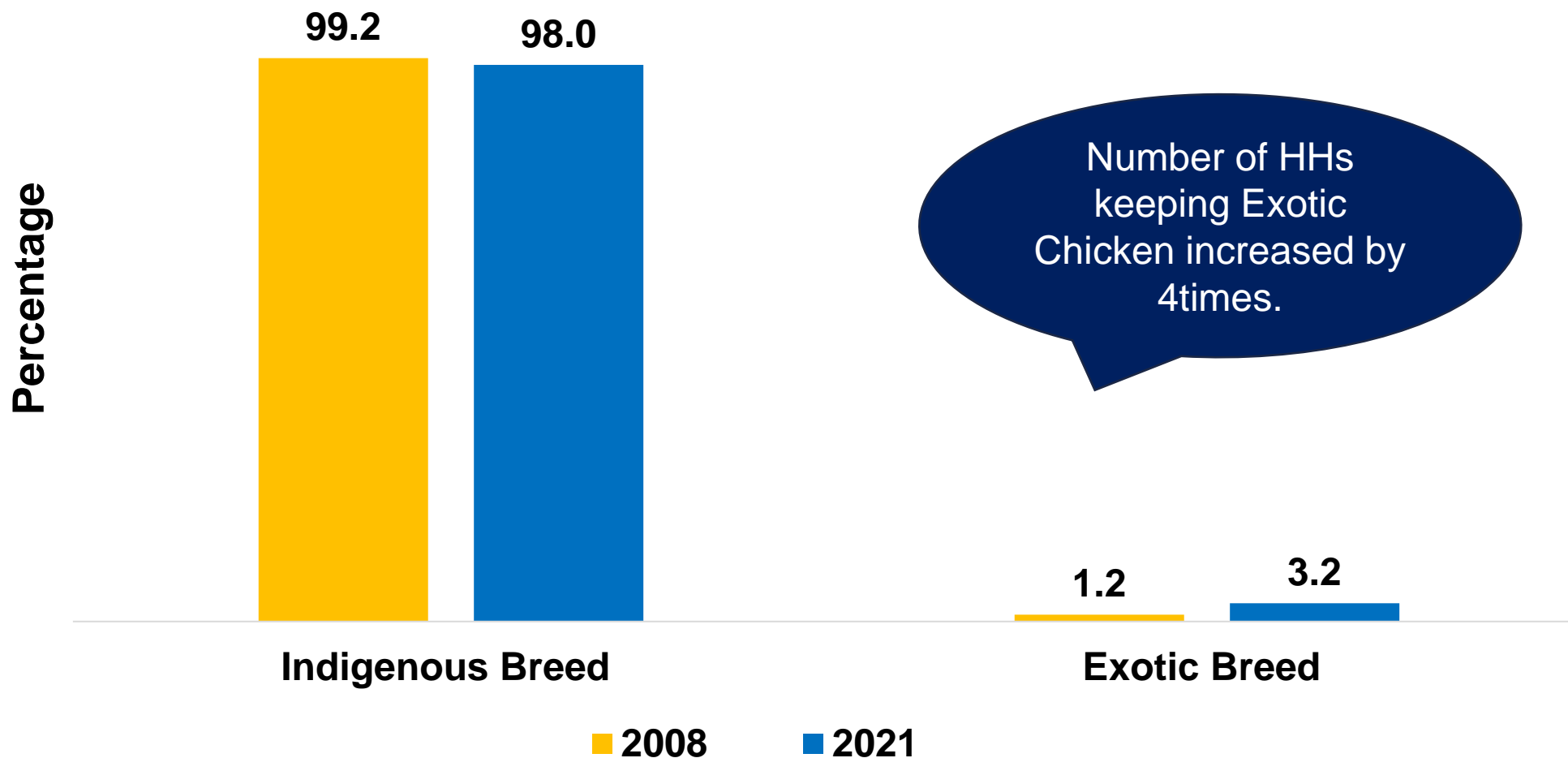


Chicken-Keeping HHs (Millions)

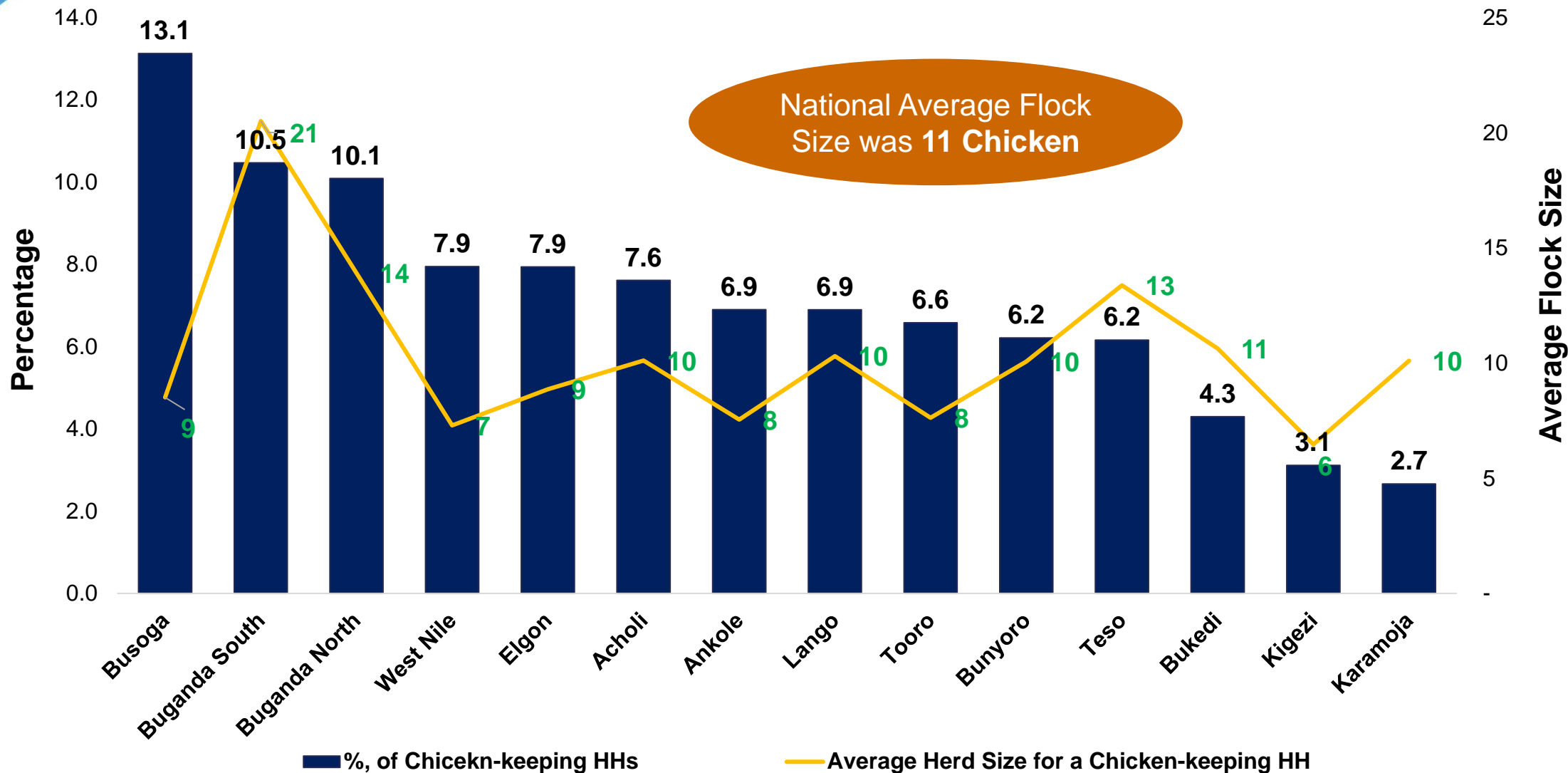


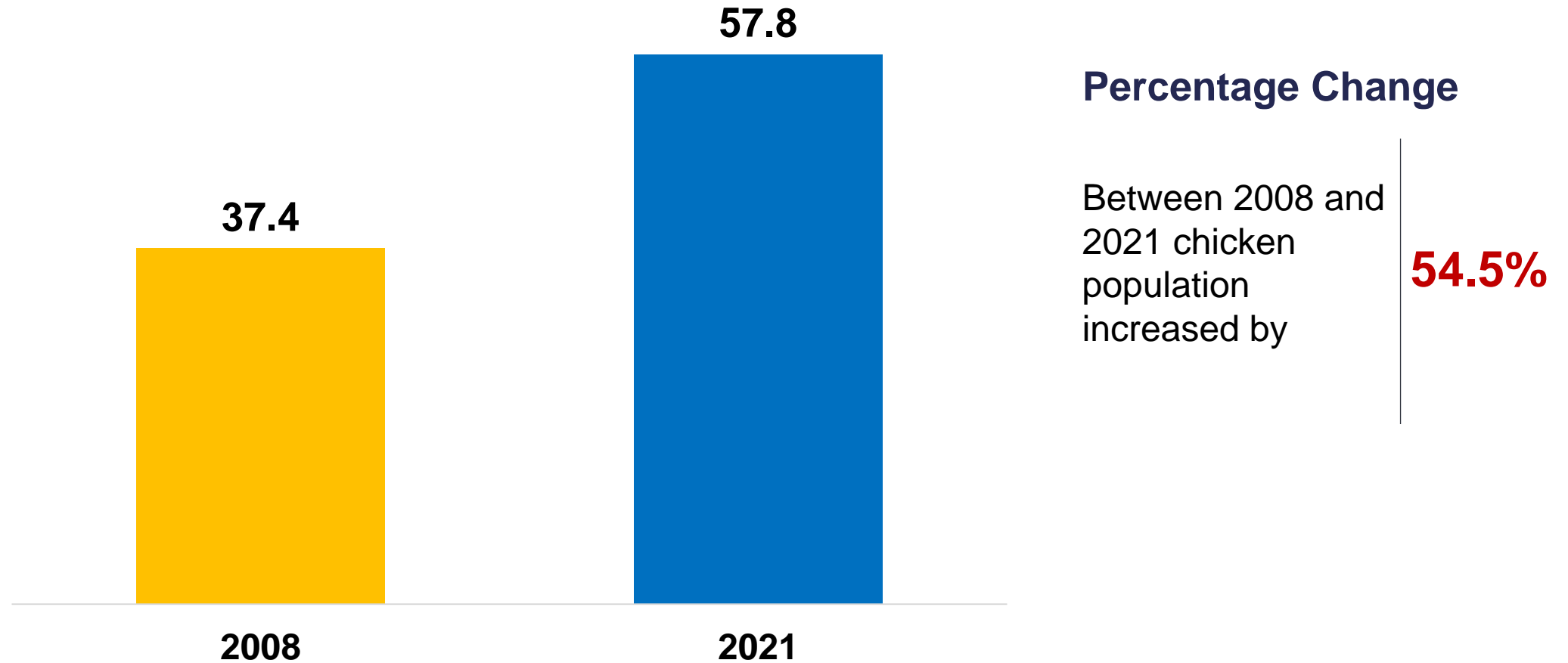
Between 2008 and 2021 the number of chicken-keeping HH increased by

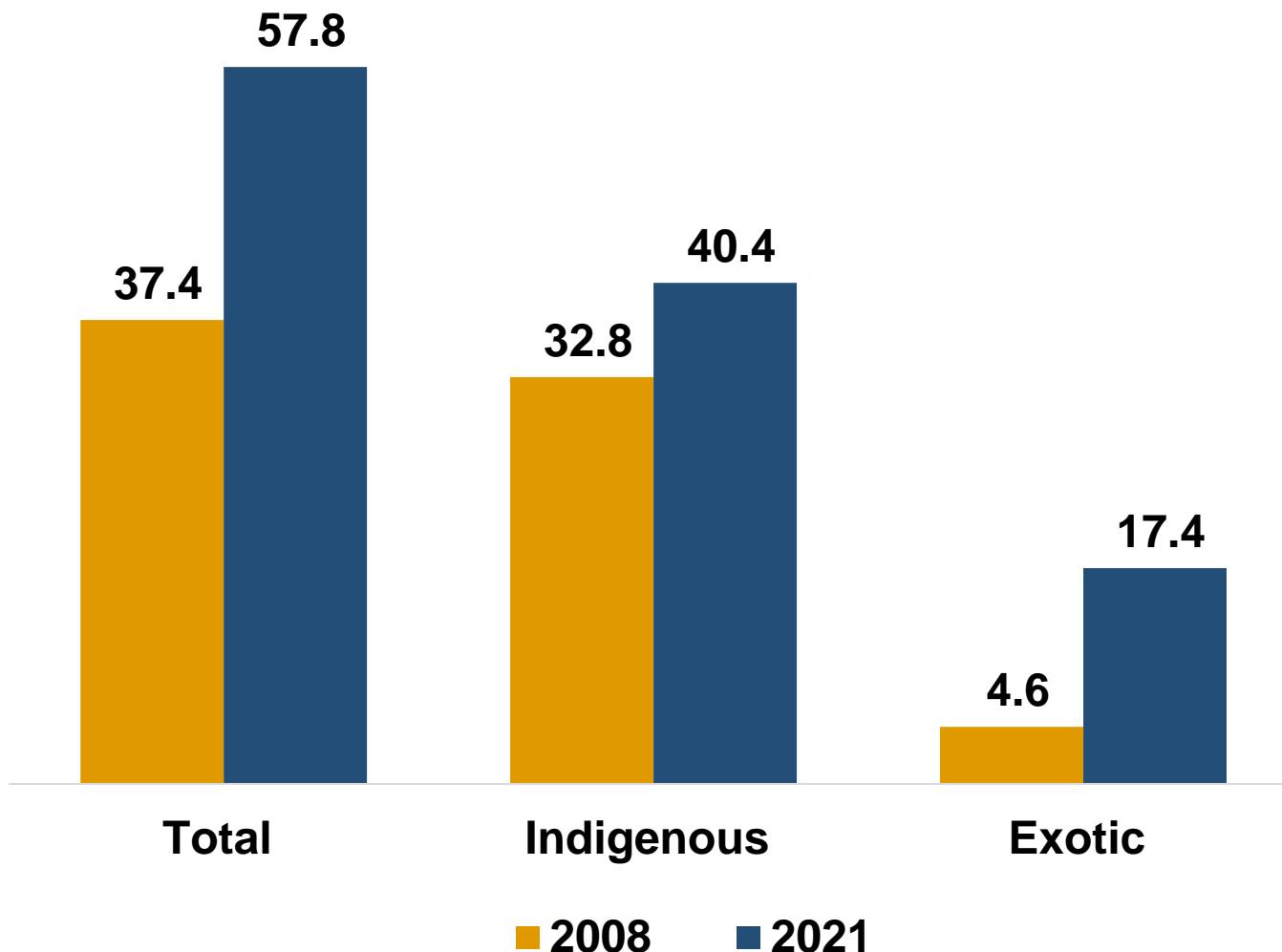
49.9%



Chicken-Keepering HHs & Average Flock Size, by Sub-region

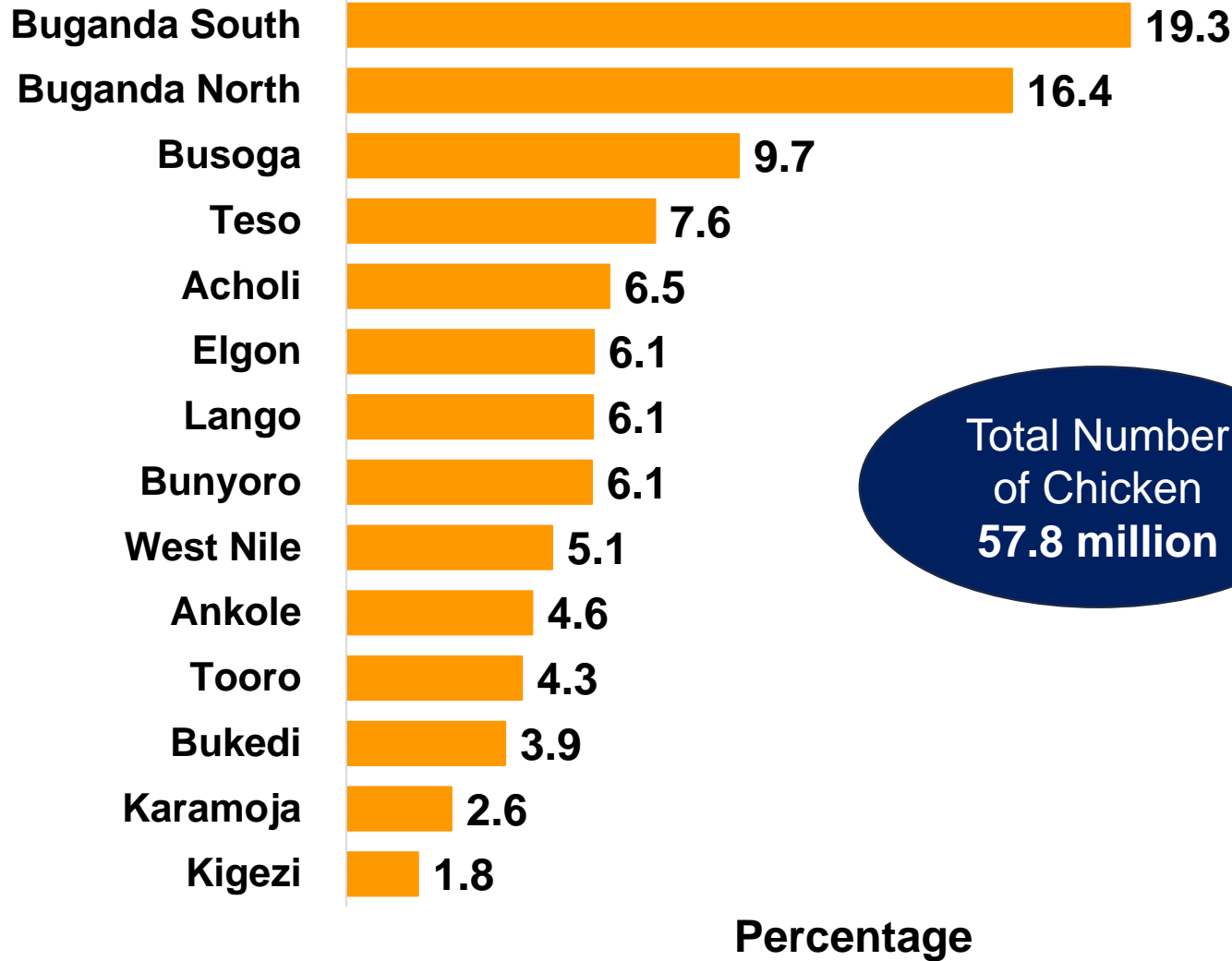






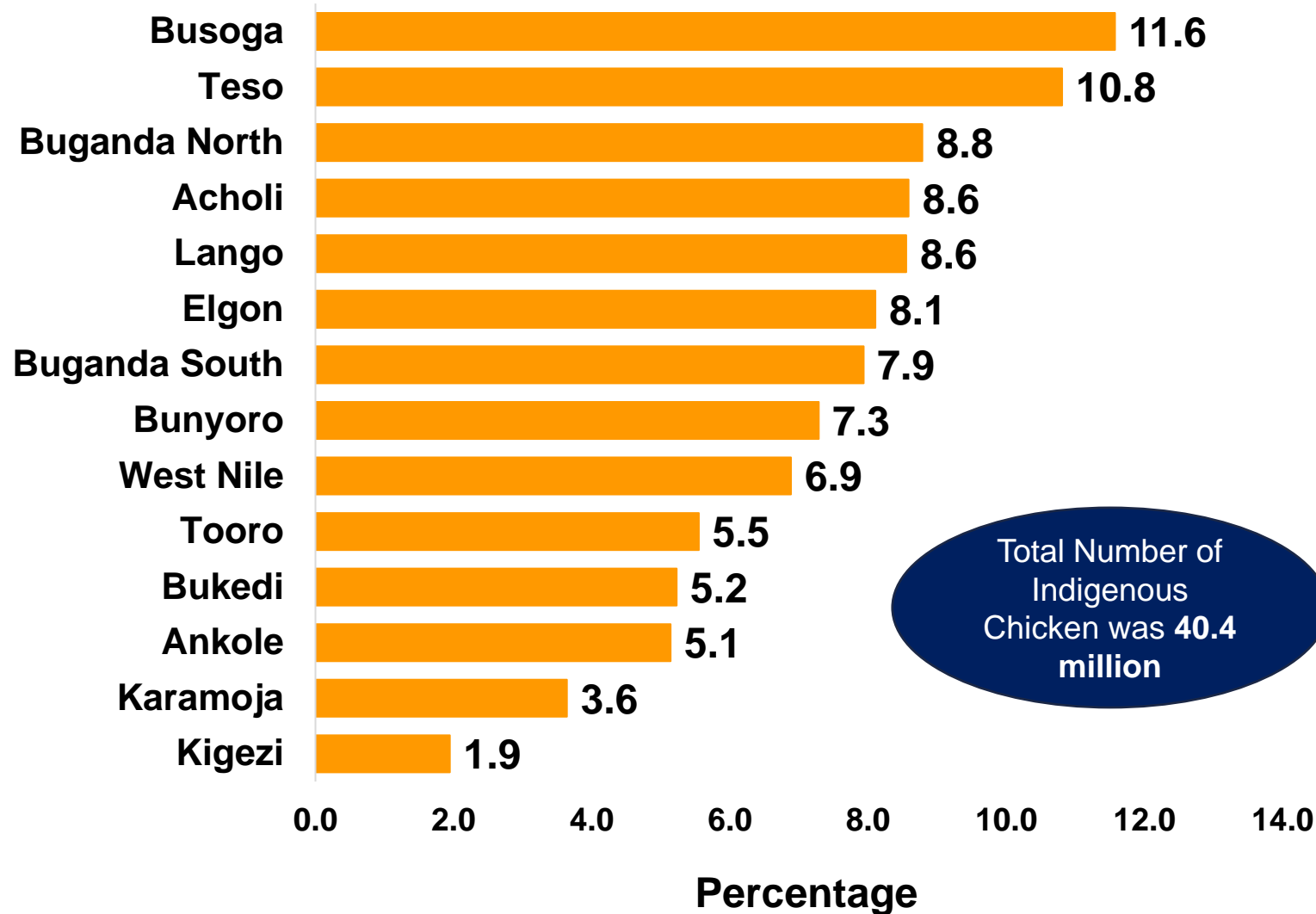
- ❑ Indigenous chicken population increased by 23% to 40.4 million in 2021 from 32.8 million in 2008.
- ❑ The population of exotic chicken increased by more than 3 times to 17.4 million in 2021 from 4.6 million in 2008.
- ❑ 69.9% of the total chicken population was of indigenous breed.

Where are the Chicken in Uganda?



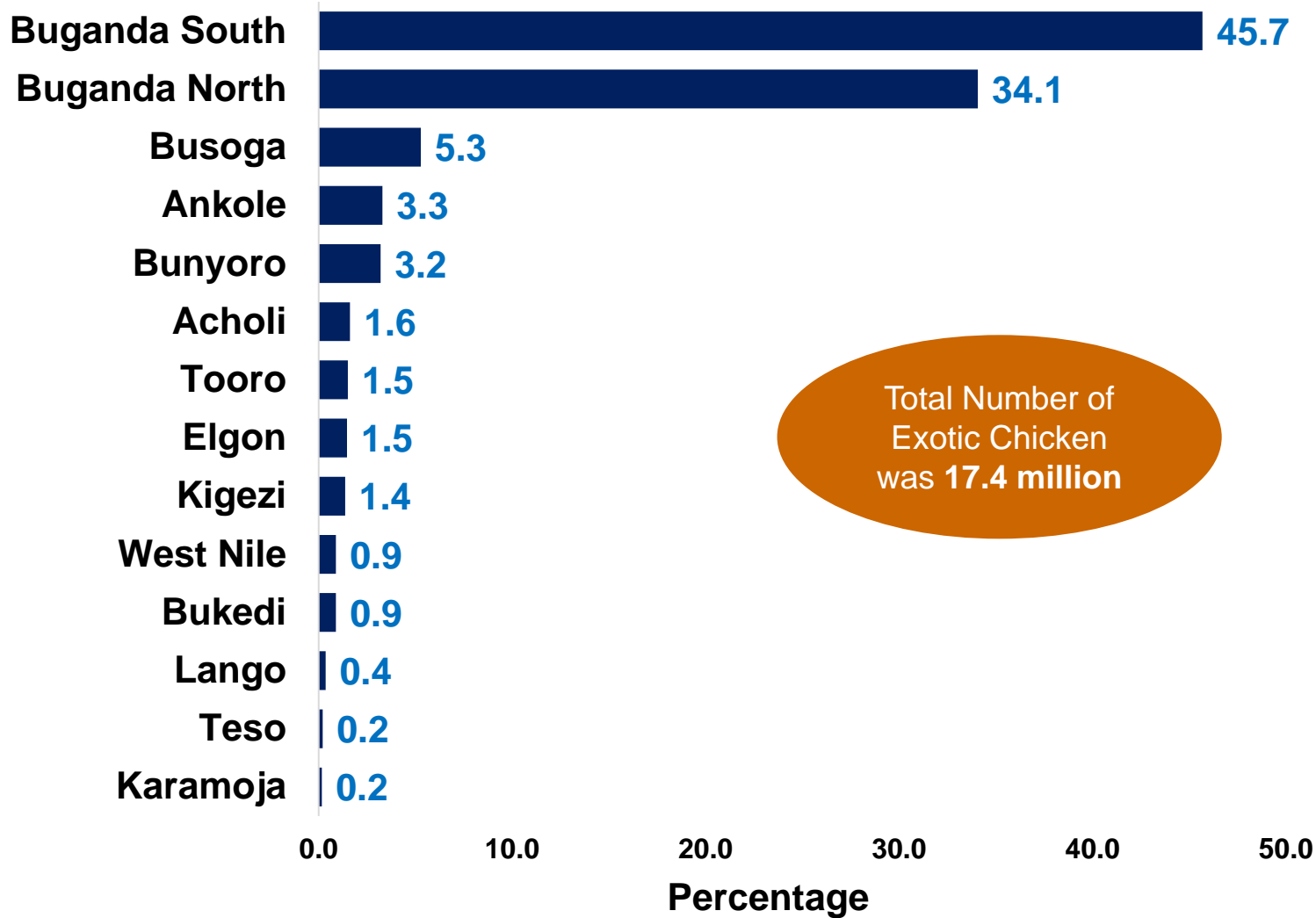
- ❑ Buganda South had the highest chicken population of 11.2 million contributing 19.3 percent to the total chicken population.
- ❑ This was followed by Buganda North with 9.5 million (16.4%), and Busoga with about 5.6 million (9.7%).
- ❑ Kigezi had the lowest chicken population of one (1) million (1.8%).

Where are the Indigenous Chicken in Uganda?



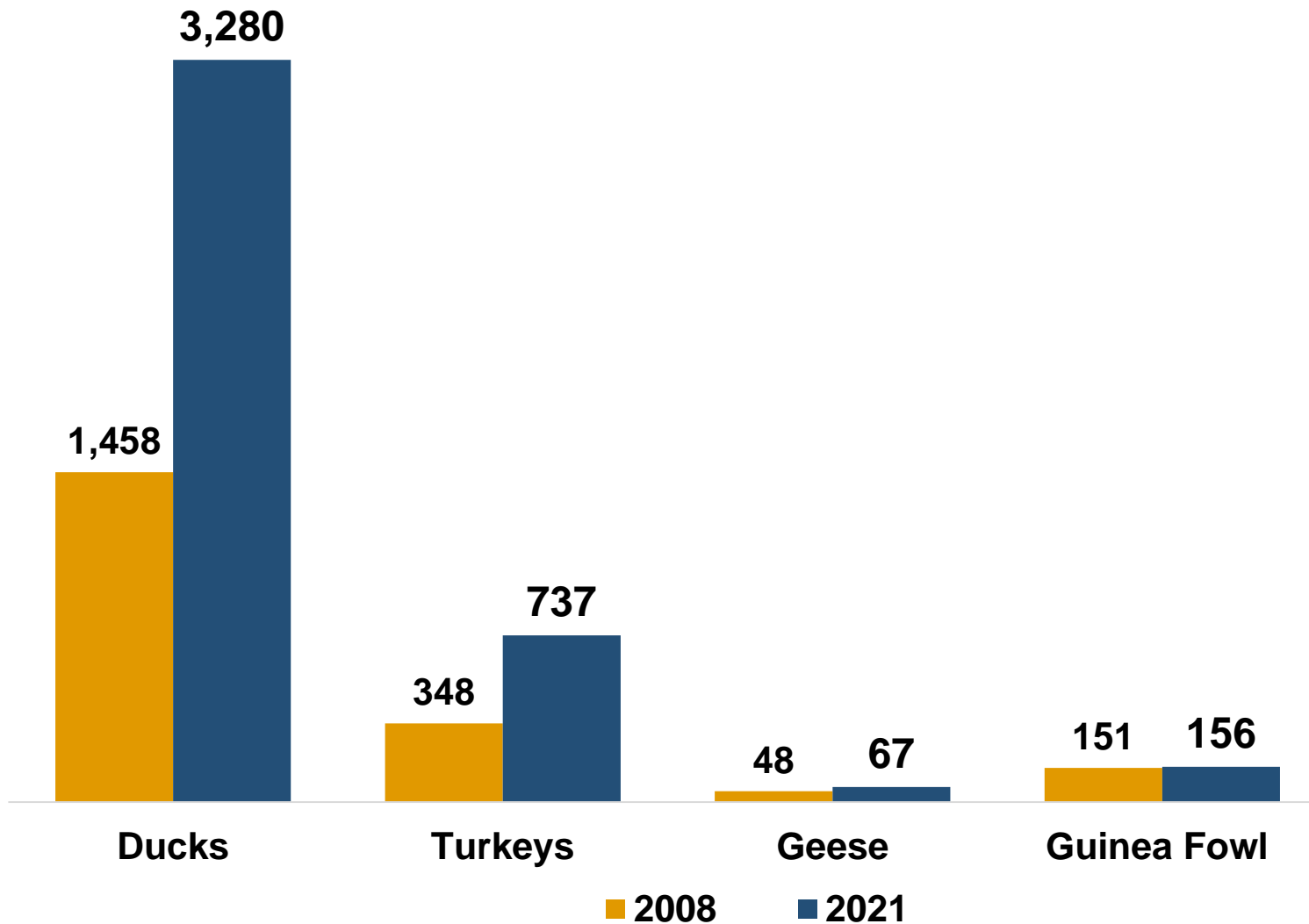
- ❑ Busoga had the highest indigenous chicken population of 4.7 million contributing 11.6 percent to the total indigenous chicken population.
- ❑ This was followed by Teso with 4.4 million (10.8%).
- ❑ Kigezi had the lowest indigenous chicken population of 0.8 million (1.9%).

Where are the Exotic/ Cross Chicken in Uganda?



- ❑ Buganda South had the highest exotic/ cross chicken population of 8 million contributing 45.7 percent to the total exotic/ cross chicken population.
- ❑ This was followed by Buganda North with 6 million (34.1%).
- ❑ Karamoja with about 28,000 (0.16%) and Teso with 37,000 (0.21%) had the lowest exotic/ cross chicken population.

Population of Other Poultry ('000)

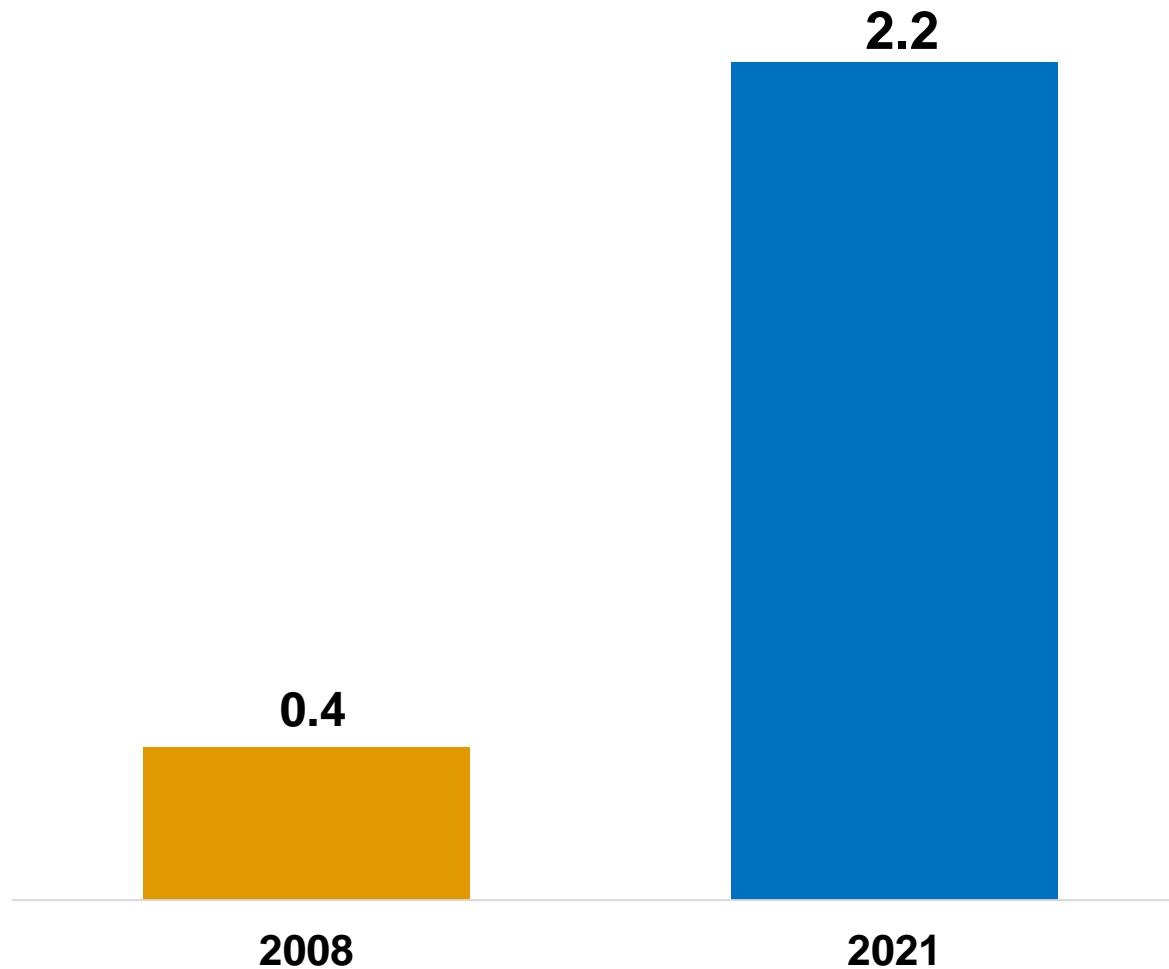


- ❑ The population of Ducks increased by 3 times in 2021.
- ❑ The population of Turkeys more than doubled.
- ❑ The population of Geese increased by 37.4%
- ❑ The population of Guinea fowls slightly increased to 156 thousand in 2021 from 151 thousand in 2008.

Rabbit Population

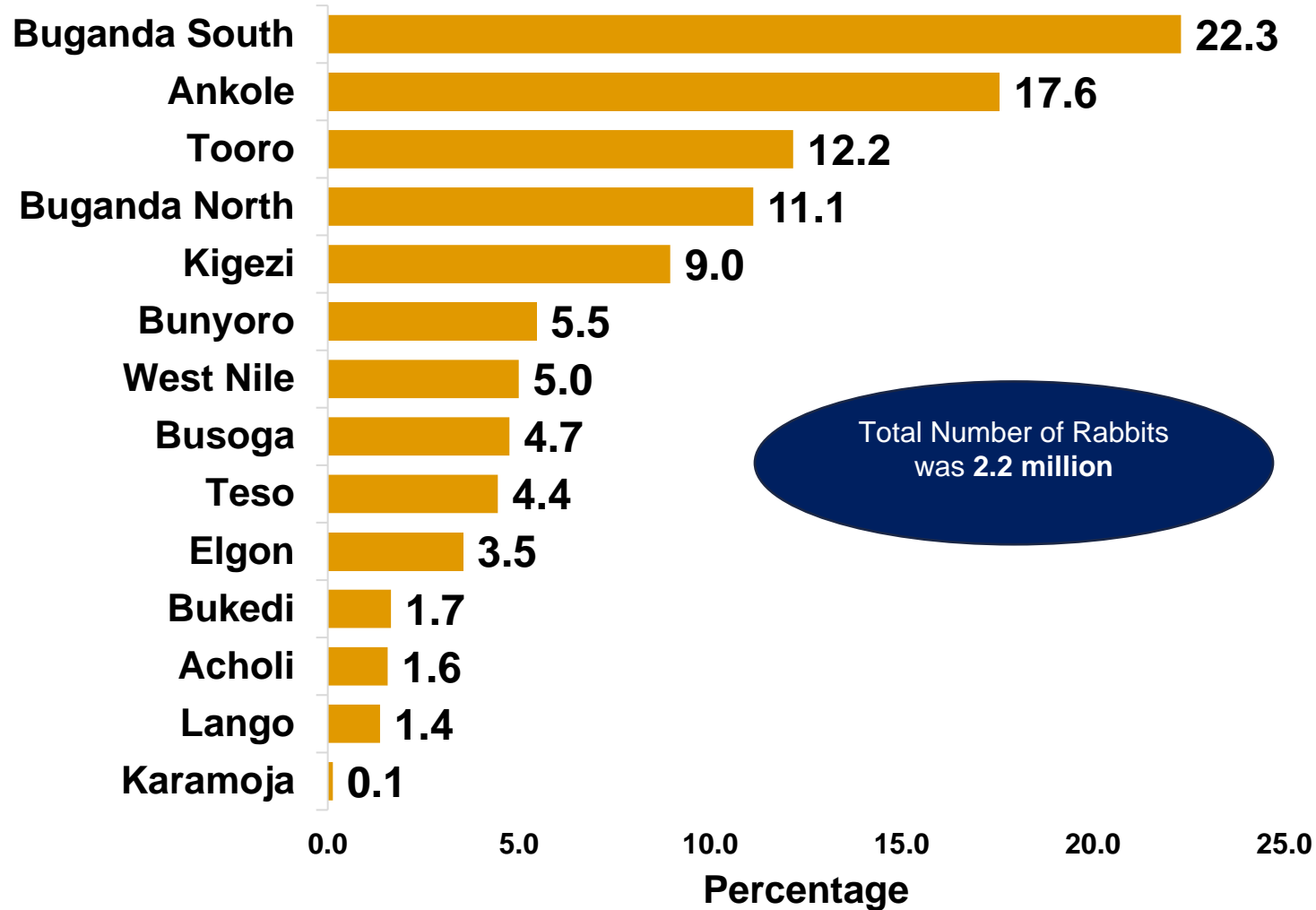


Rabbit Population in Millions



- ❑ The total rabbit population in Uganda was 2.2 million in 2021 compared to 0.4 million in 2008.
- ❑ This was an increment of about five (5) times.
- ❑ The average **litter (herd) size** for a rabbit keeping household was **7 rabbits**.

Where are the Rabbits in Uganda?



- ❑ 22.3% of the total rabbit population in Uganda was registered in Buganda South.
- ❑ This is followed by Ankole with 17.6%, and Tooro with about 12.2%.
- ❑ Karamoja had the lowest population of 0.1% rabbits



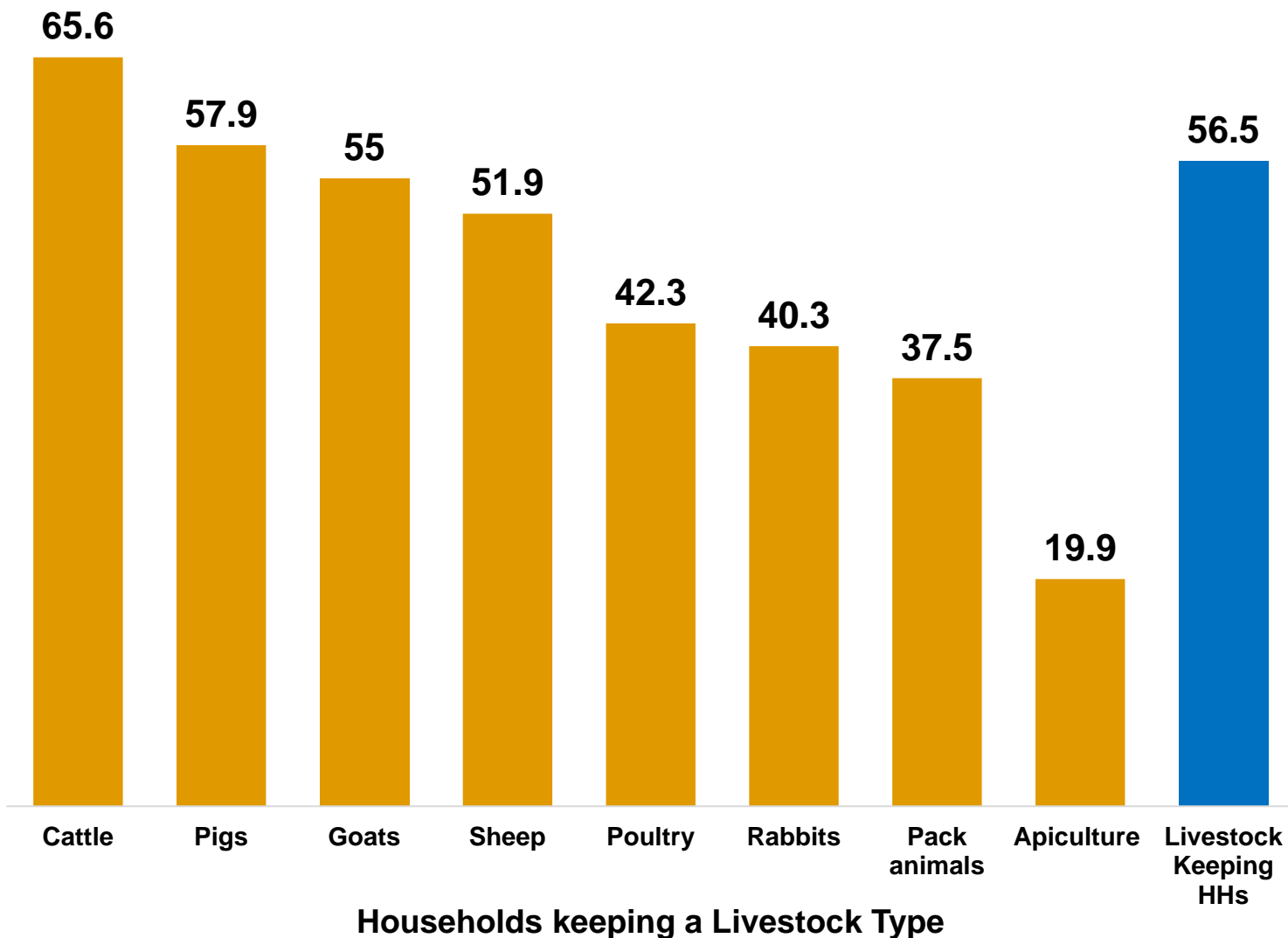
PART C:

- Access to Extension Services
- Source of Extension Services
- Production Systems
- Type of Labour Used
- Pasture Planting
- Ownership of Farm Infrastructure, Equipment, and Implements

By
Constance Nakiyemba
Senior Statistician
Livestock Statistics

Access to Extension Services

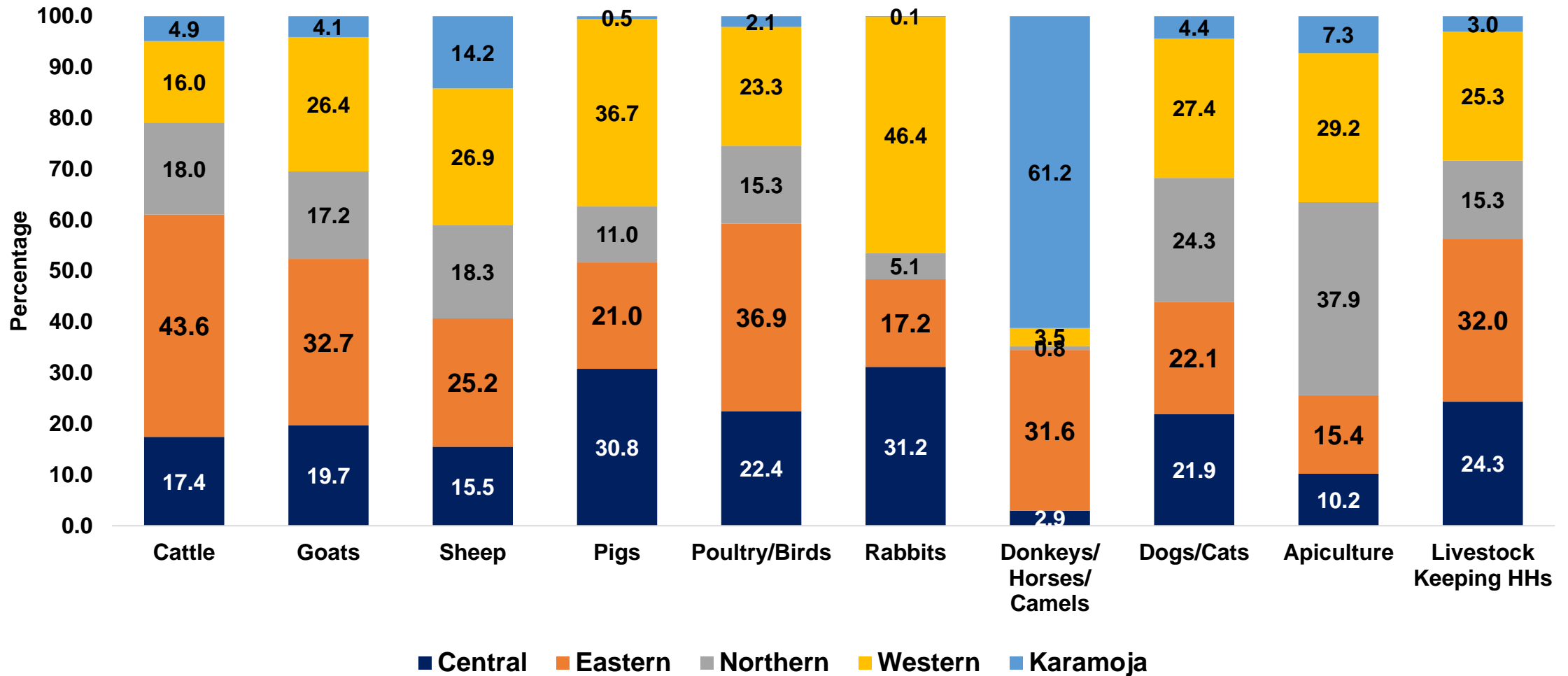


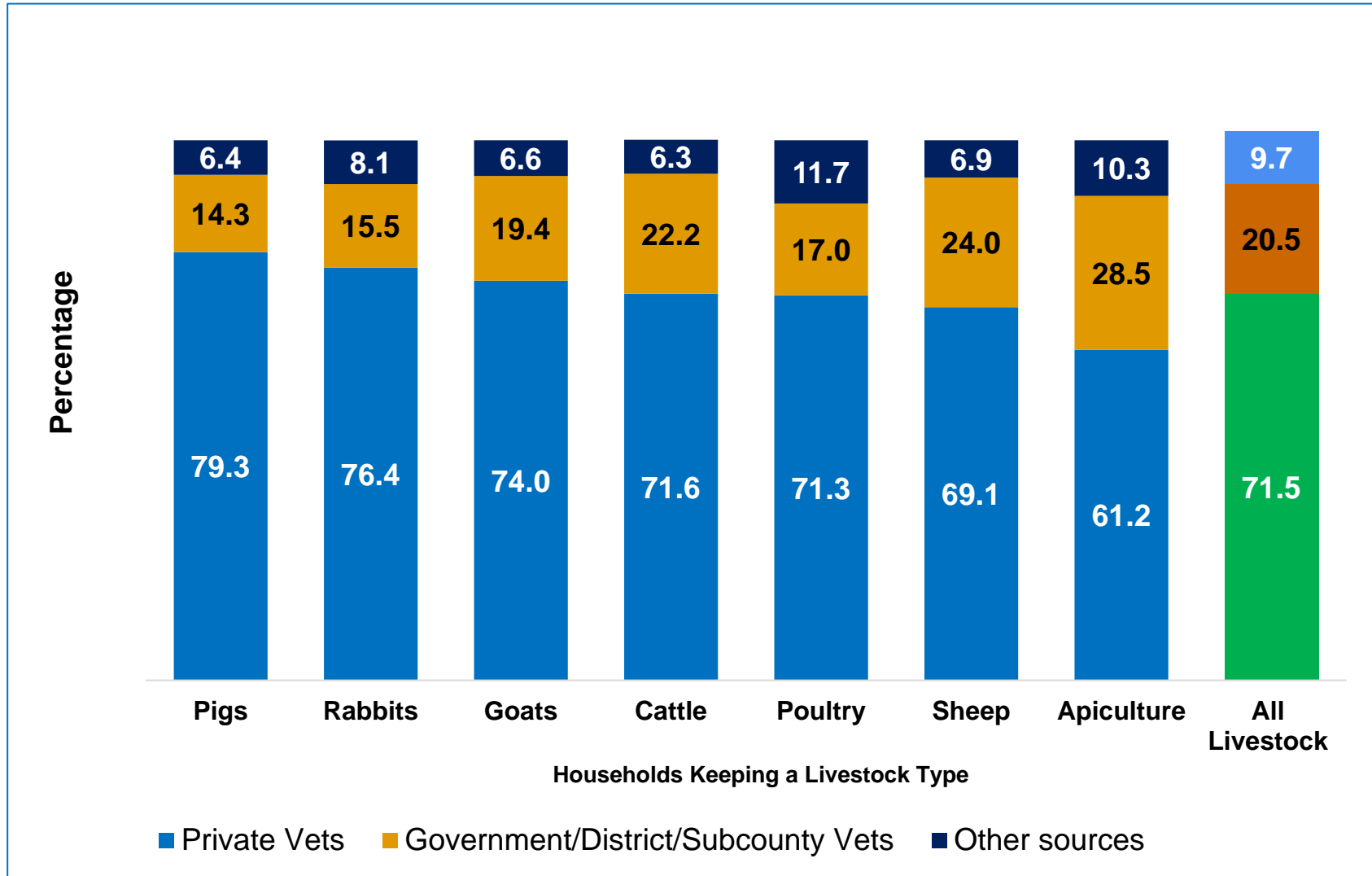


- ❑ About 6 in every 10 livestock keeping HHs (56.5%) in Uganda had access to extension services in 2021
- ❑ Access to extension services was highest among the cattle keeping households with 65.6%.
- ❑ Access to extension services was lowest among households practicing apiculture with 19.9%.



Access to Extension Services by Livestock-keeping HHs



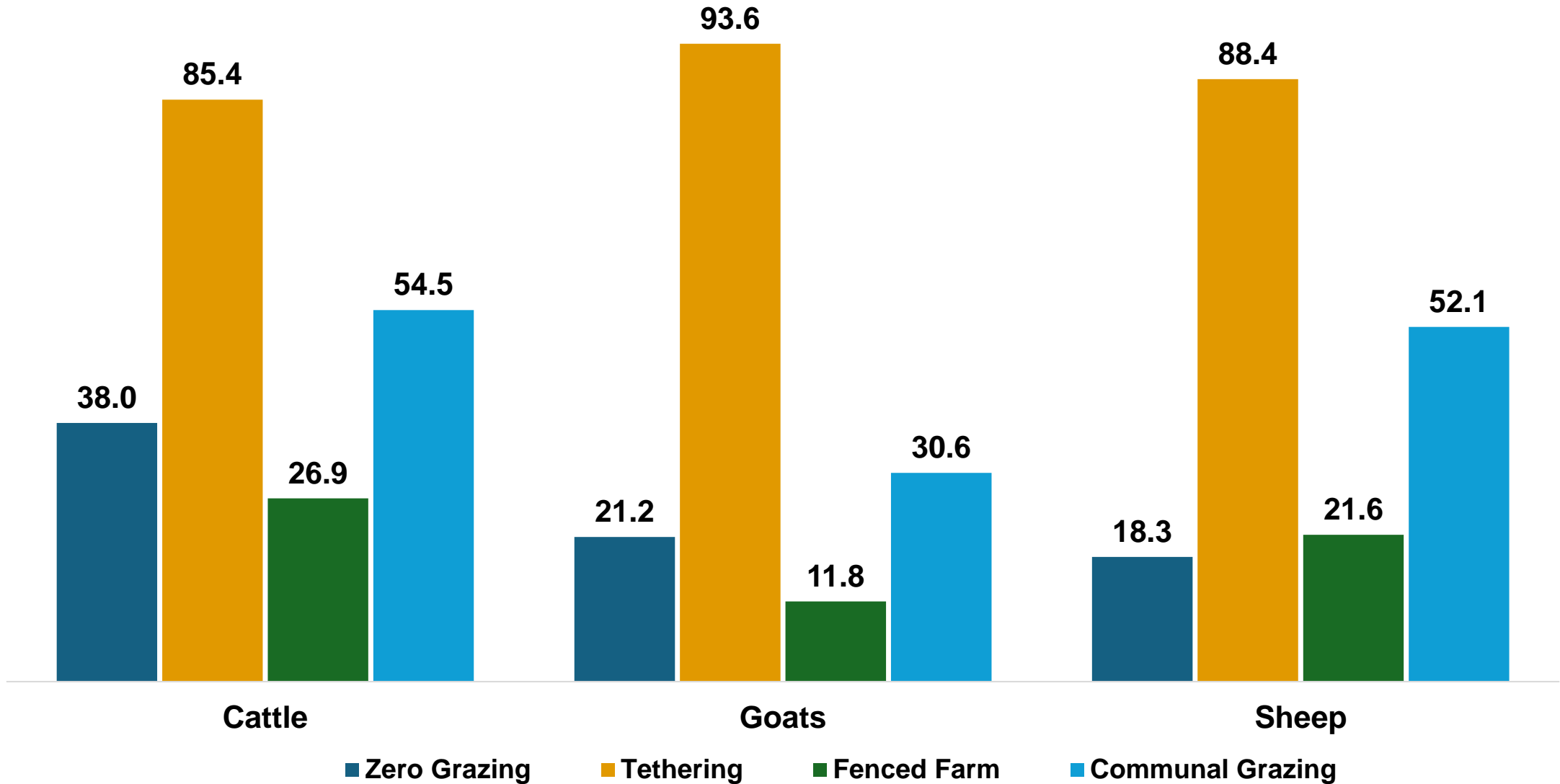


- ❑ Overall, 71.5 percent of livestock keeping HHs received extension services from private vets.
- ❑ Only 20.5 percent received extension services from government.



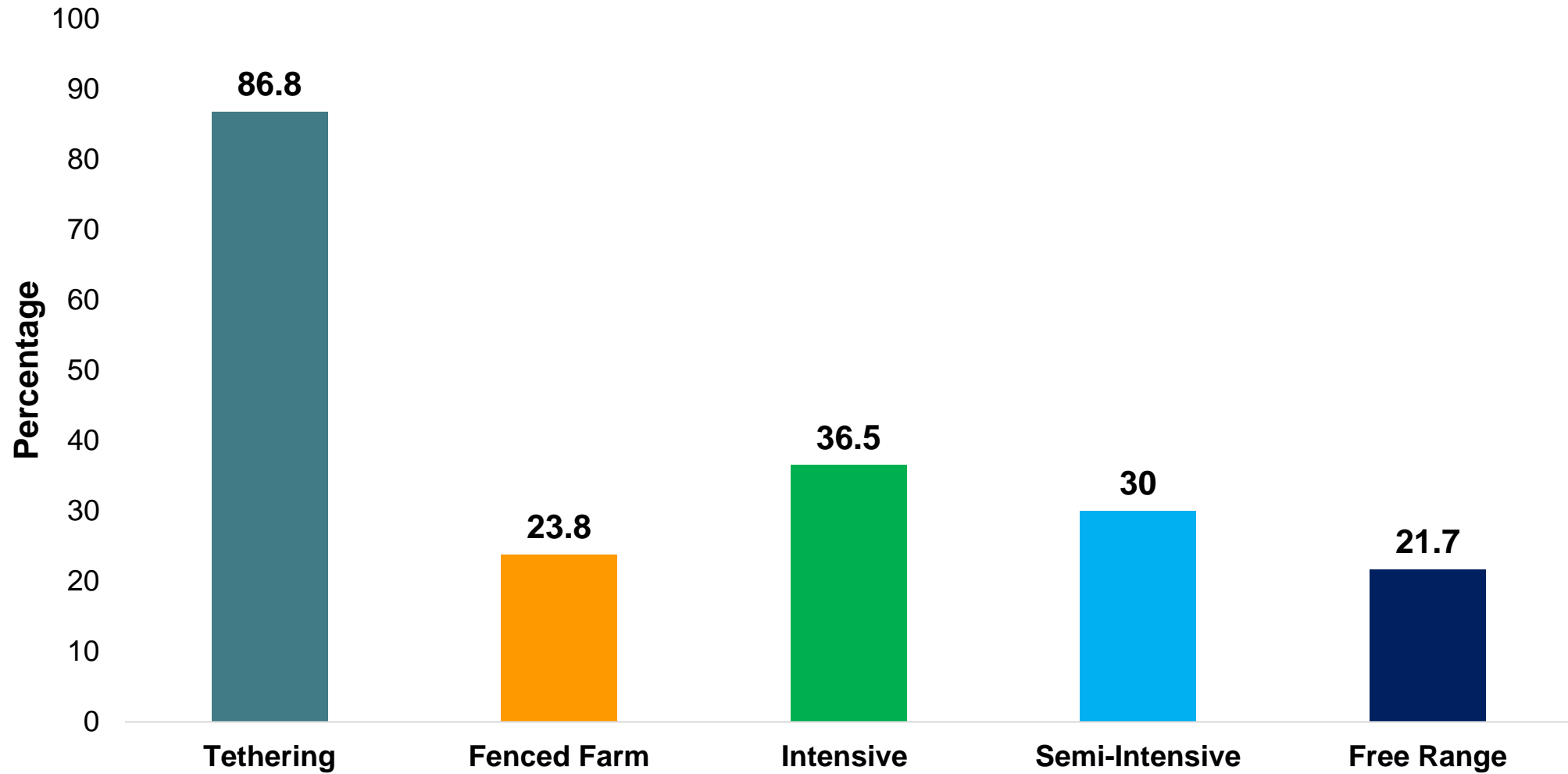
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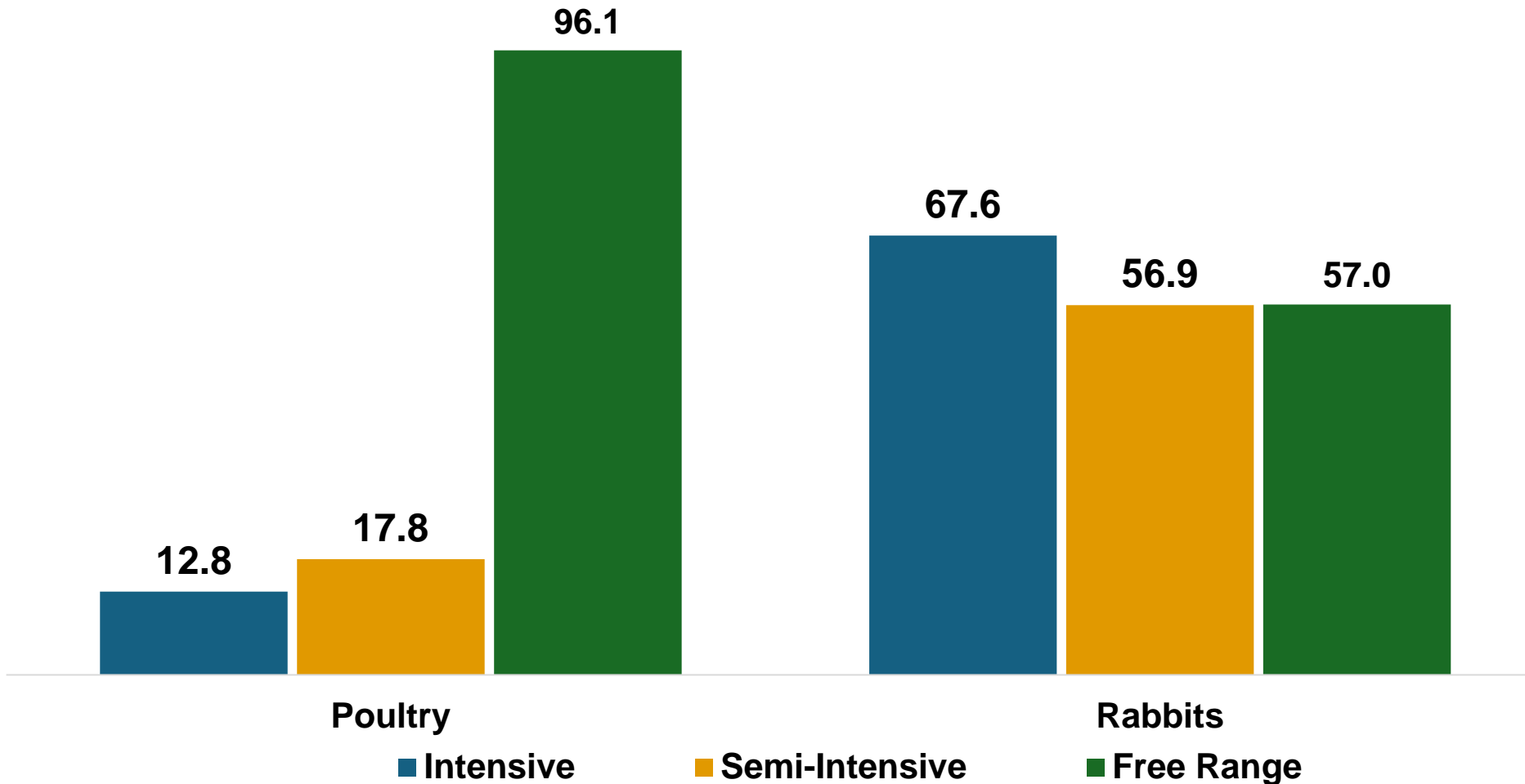
Production Systems



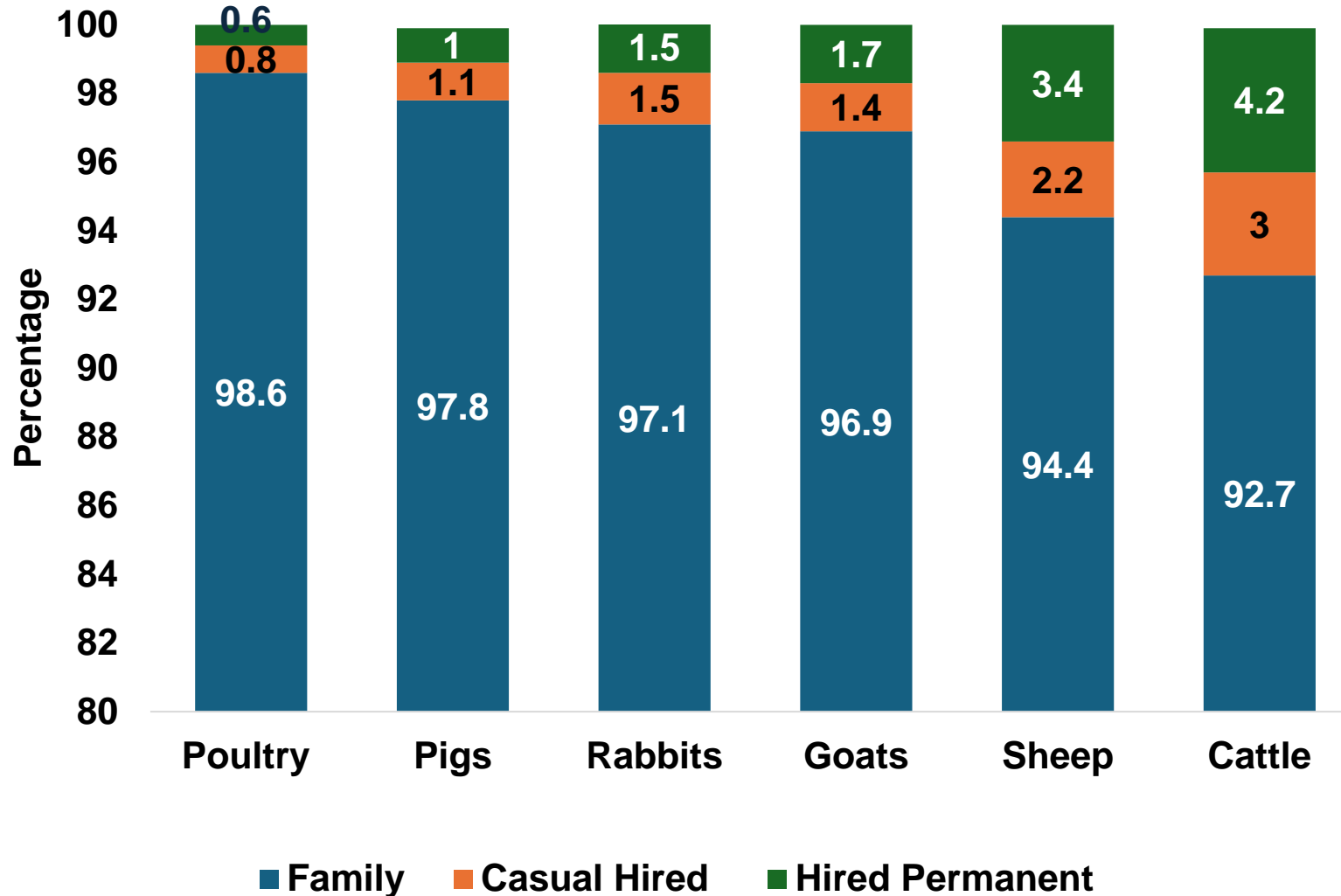


Production Systems for Pigs



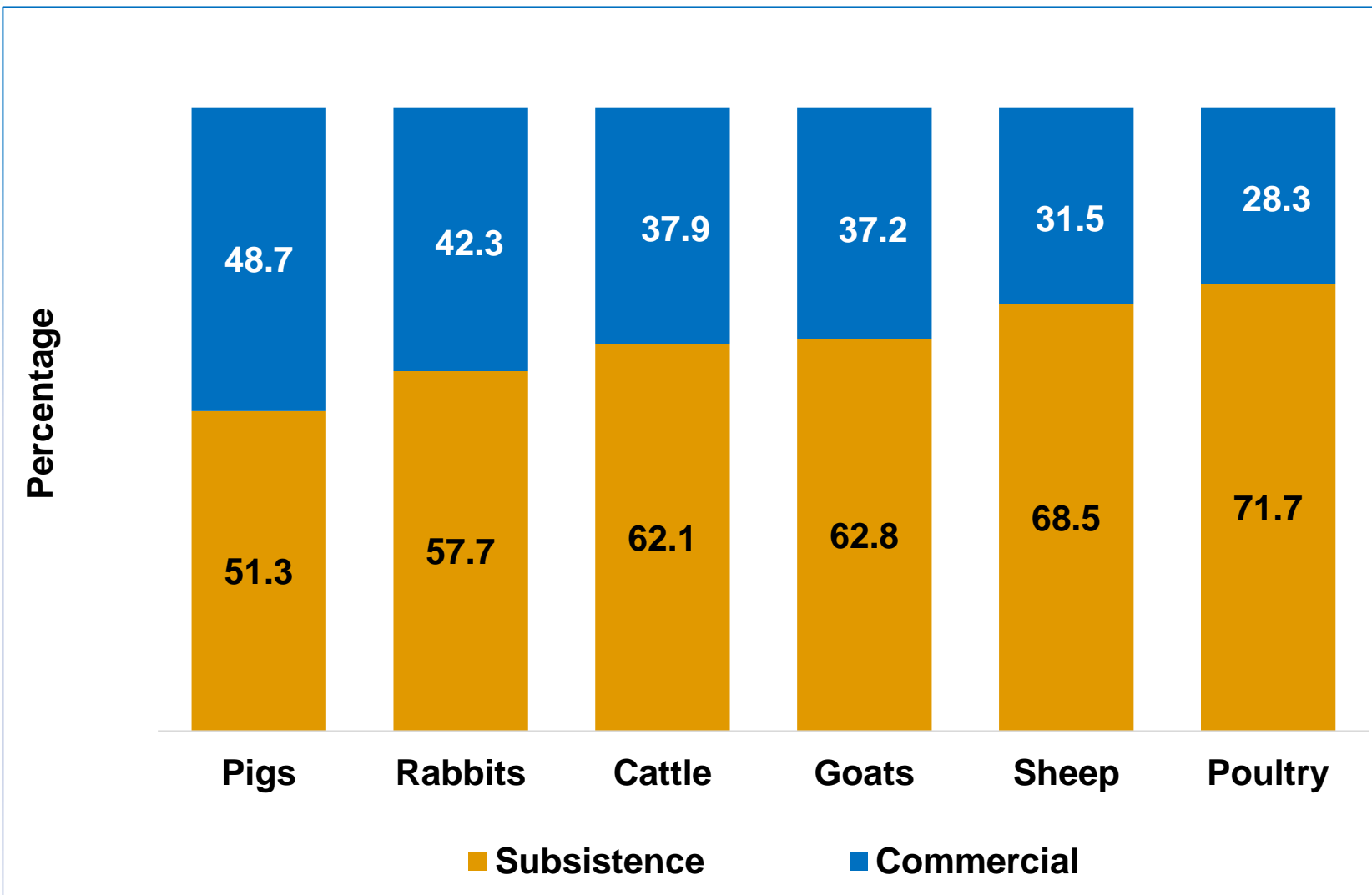


Main Type of Labour Used

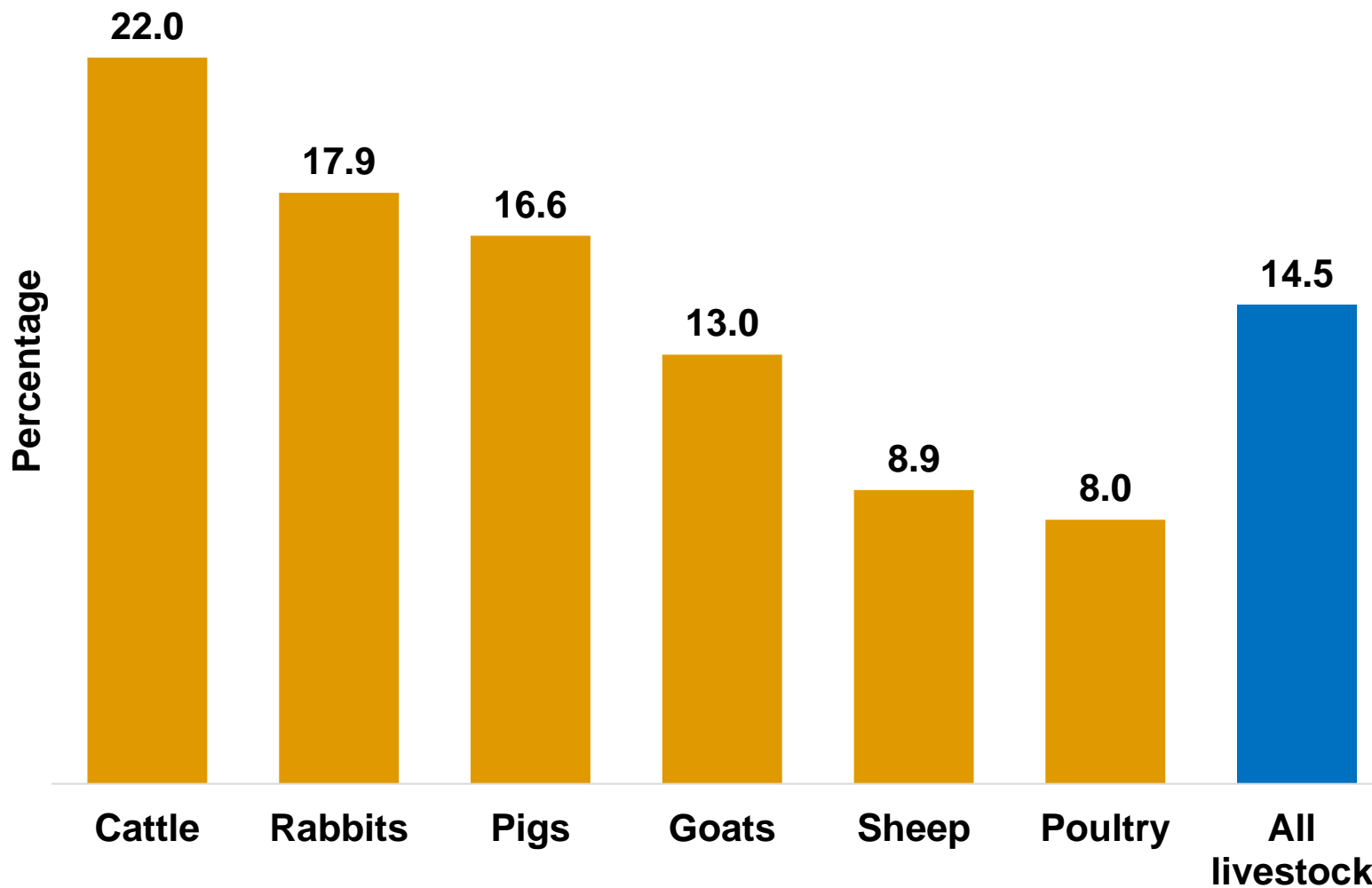


- ☐ Households continued to rely on family labor for livestock production.
- ☐ Hired labor was most used among cattle keeping HHs with 7.2% followed by sheep keeping-households with 5.6%

Main Purpose of Livestock Production



- ❑ Generally, over 50 percent of the households keep livestock for subsistence.
- ❑ Commercial production was highest among pigs (48.7%), rabbits (42.3%) and cattle (37.9%).



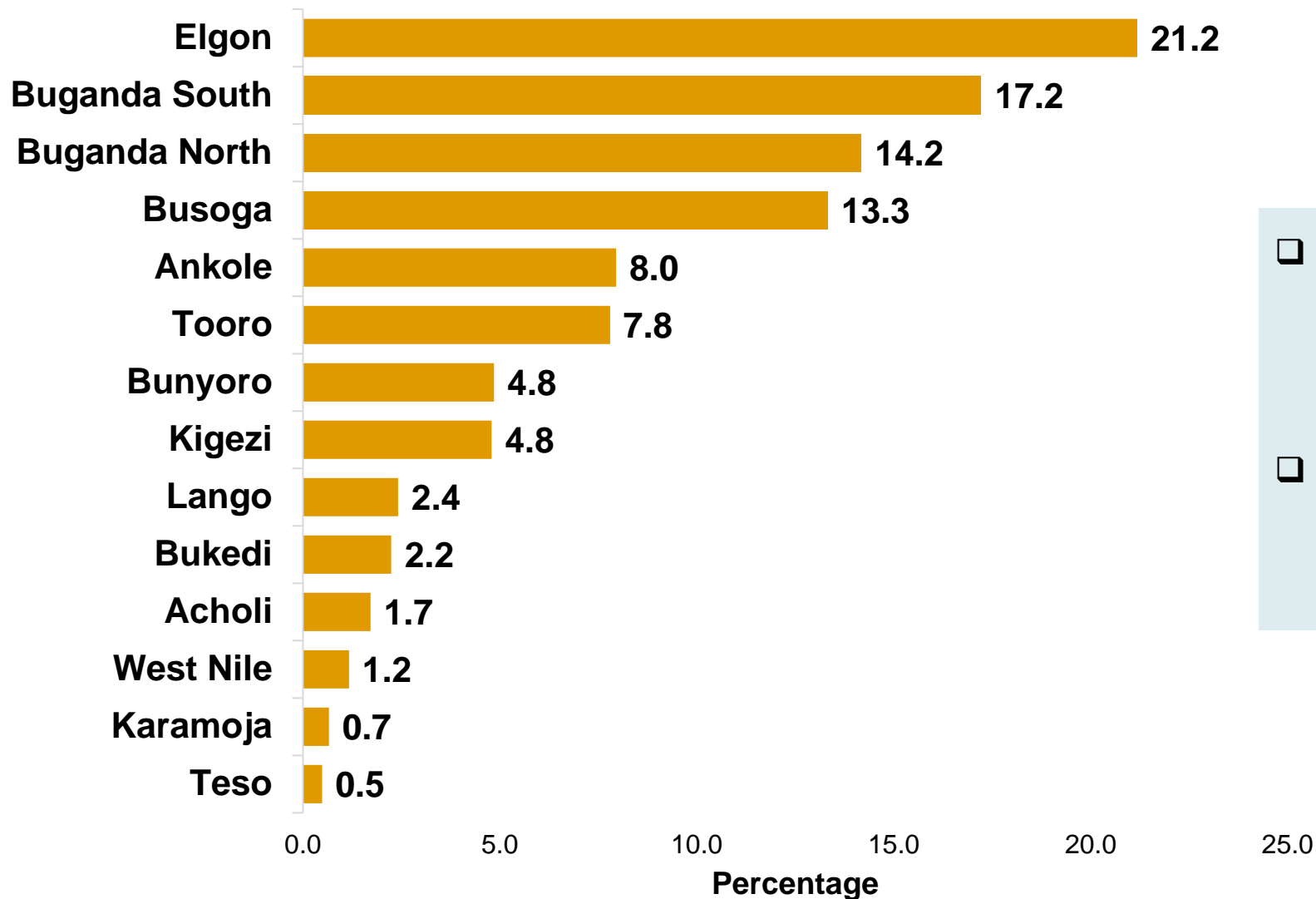
- Percentage of livestock keeping households that plant pasture increased from 2.4% in 2008 to 14.5% in 2021.
- Pasture planting is highest among cattle keeping households (22.0%), followed by rabbits (17.9%) and pigs (16.6%).



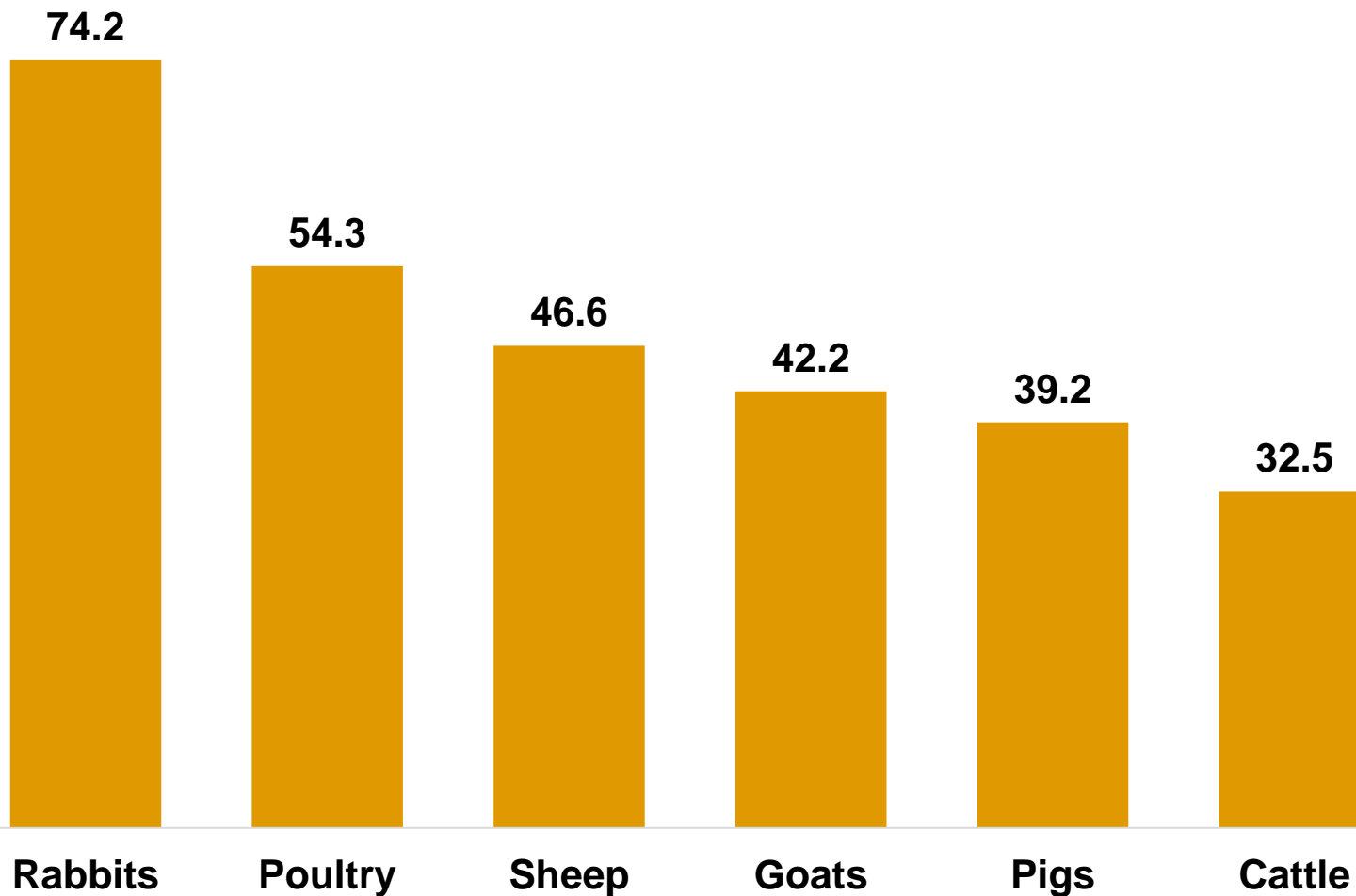
Pasture Planting by Livestock-keeping HHs



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- 21.2% of livestock-keeping HHs who planted pasture were in Elgon .
- This was followed by Buganda South and Buganda North.



Households Keeping a Livestock Type

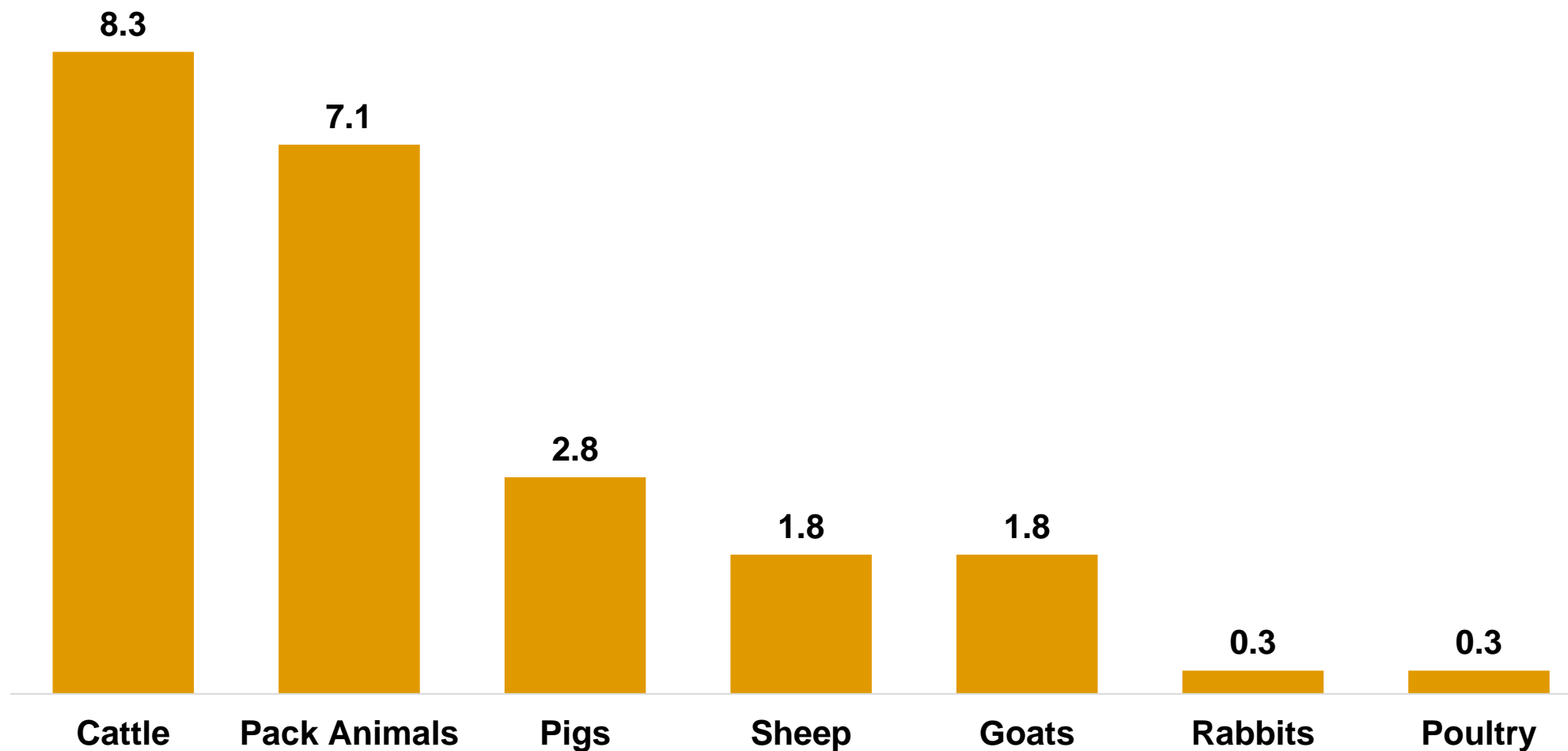
- ❑ Generally, over 30 percent of livestock-keeping HHs had shelter/ enclosure for their livestock in 2021.
- ❑ Livestock shelters were highest among rabbit keeping households (74.2%), followed by poultry (54.3%) and sheep (46.6%).

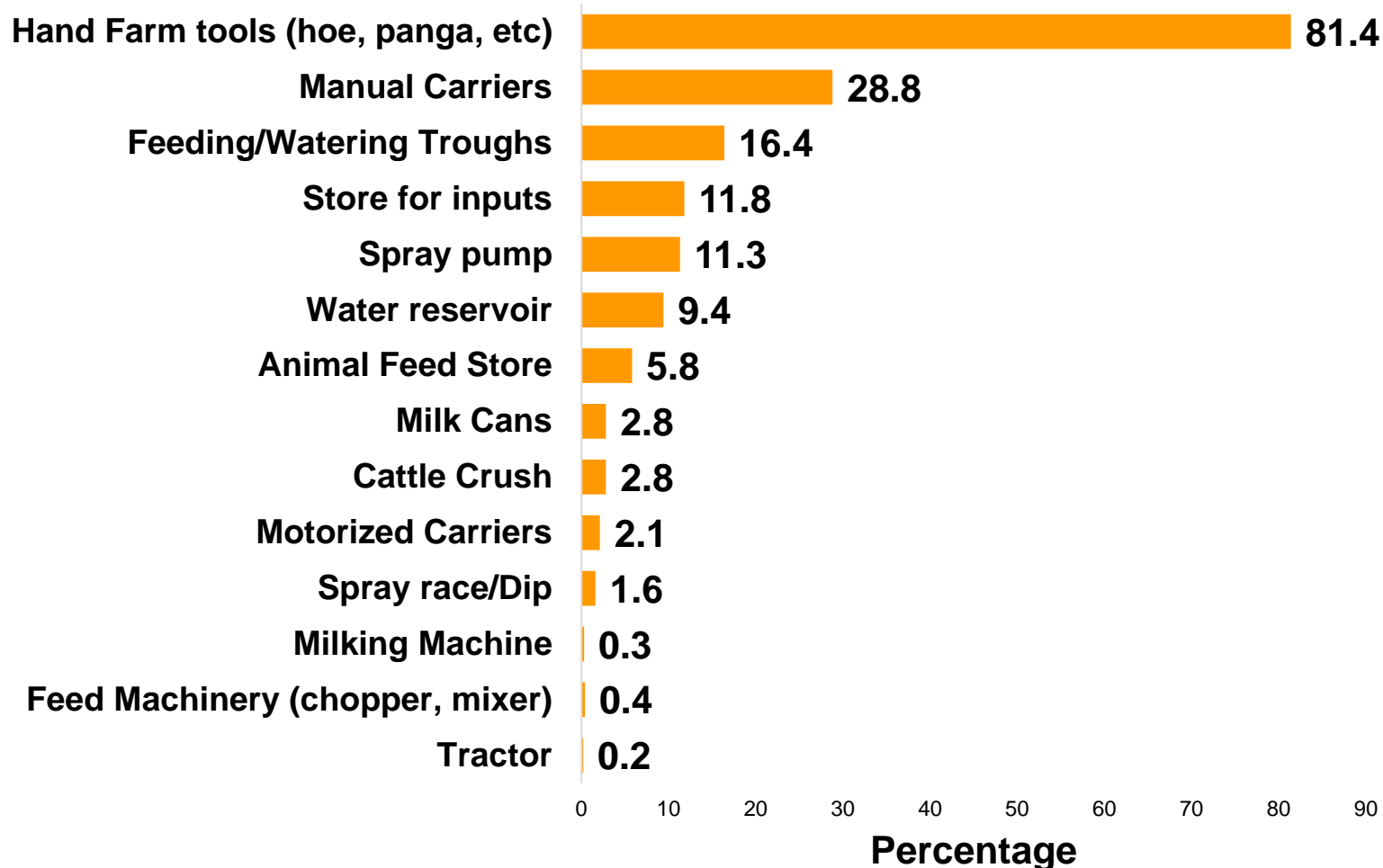


Average Daily Amount of Water in Litres for Livestock Production



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- 81.4% of livestock keeping HHs owned hand farm tools.
- 28.8% owned manual carriers.
- 16.4% owned feeding/watering troughs .
- 11.3% owned spray pumps.
- Only 0.2% of livestock keeping HHs own a tractor.**



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Thank You for Listening





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