

AGRICULTURAL CENSUS STATS BRIEF 2015



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1.0 Preface

This Stats Brief presents preliminary results of the 2015 Agricultural Census. The results are provisional and may be adjusted upon release of the main report after completion of data analysis.

The Brief focuses primarily on the main indicators in the agricultural sector, such as livestock population, births and deaths as well as area planted, area harvested and yields by crop type.

The 2015 Agricultural Census was conducted by Statistics Botswana in collaboration with the Department of Agricultural Research, Statistics & Policy Development (DARSPD) in the Ministry of Agriculture.

I am grateful to the Ministry of Agriculture for their enduring support, the Ministry of Youth, Sports and Culture for providing enumerators for the exercise and to all other organisations and individuals who contributed to the success of this Agricultural Census. I wish to thank in particular the farmers who made time to respond to the questionnaires.

Dr Burton Mauni

Acting Statistician General

December 2016.

2.0 Introduction

The 2015 Agricultural Census is the fifth (5th) to be conducted since independence at an interval of ten (10) years. The Agricultural Census was conducted with the objective (i) to provide time series basic information on crop and livestock production as well as farming practices and farm labour; (ii) to utilise the results and experience gained from the agricultural census to better plan for future annual agricultural surveys to be carried out in the ten years between agricultural censuses, commencing in 2017 and; (iii) to provide new baseline data at national and district levels with the view to informing development planning and policy-decision making.

3. 0 Scope and Coverage

The 2015 agricultural census covered, among other things, the following:

- a) Number of agricultural holdings and principal characteristics of members of the holdings such as age, sex, marital status, education level, economic activities, as well as the size and fragmentation of holdings and land tenure;
- b) Land use for both pastoral and crop farming;
- c) Inventory of livestock (by type, age and sex) and poultry in the holding;
- d) Farming practices.

This Stats Brief however covers main indicators only while other indicators will be covered in the main report.

4.0 Survey Methodology

The agricultural census forms a basis for the review of statistical infrastructure for an appropriate food and agricultural information system for the next ten years.

The methodology used for the 2015 Agricultural Census was based on the nine (9) Administrative Districts covering the entire country. Each District is divided into sub-districts called Census Districts comprising of Villages, Lands and Cattle Posts. The methodology applied was similar to that used for the 1982, 1993 and 2004 agricultural censuses. The universe of study was divided into two parts, viz. (i) traditional holdings and (ii) commercial holdings. A sample-based survey was used for traditional holdings while complete enumeration was used for commercial holdings.

Data collection in the traditional sector started in January and was completed in November, 2015 while in the commercial sector it was carried out from August to December, 2015.

5.0 The 2015 Agricultural Census Results

The 2015 Agricultural Census was conducted during a drought year, the negative effects of which might be reflected in the results.

5.1 Livestock Statistics

Livestock statistics for both the traditional and commercial sectors is presented in Table 5.1.1 up to Table 5.1.6.

Table 5.1.1: Cattle Statistics: Cattle Holdings, Population, Births & Deaths.

| | С | attle Holding | gs | Catt | le Populatio | n | Cattle In | ventory |
|-------------------|---------------|-----------------|--------|------------|-----------------|--------------|-----------|---------|
| | Male owned | Female owned | Total | Male owned | Female owned | Total cattle | Births | Deaths |
| SOUTHERN | 4,661 | 1,621 | 6,282 | 154,704 | 29,706 | 184,410 | 45,360 | 12,572 |
| SOUTH EAST | 328 | 66 | 394 | 4,654 | 871 | 5,525 | 1,386 | 306 |
| KWENENG | 4,365 | 1,117 | 5,482 | 194,338 | 25,217 | 219,555 | 55,345 | 12,297 |
| KGATLENG | 1,606 | 404 | 2,010 | 74,681 | 16,242 | 90,923 | 22,120 | 5,652 |
| CENTRAL | 11,558 | 3,435 | 14,993 | 635,671 | 108,488 | 744,159 | 179,304 | 42,627 |
| NORTH EAST | 1,187 | 971 | 2,158 | 18,736 | 9,646 | 28,382 | 6,806 | 1,723 |
| NGAMILAND | 3,358 | 1,524 | 4,882 | 199,636 | 38,496 | 238,132 | 60,786 | 21,643 |
| GHANTSI | 823 | 220 | 1,043 | 59,665 | 10,059 | 69,724 | 19,780 | 4,710 |
| KGALAGADI | 988 | 229 | 1,217 | 97,021 | 11,153 | 108,174 | 30,348 | 8,448 |
| TOTAL Traditional | 28,874 | 9,587 | 38,461 | 1,439,106 | 249,878 | 1,688,984 | 421,235 | 109,978 |
| TOTAL Commercial | | | 1,301 | | | 383,699 | 88,986 | 12,354 |
| TOTAL | | | 39,762 | | | 2,072,683 | 510,221 | 122,332 |

Table 5.1.1 shows cattle holdings, population, births and deaths. The figures show that the Central district had the highest cattle holdings in the country at 14,993. The same district also registered the highest cattle population (744,159). South East district trailed behind in the number of cattle holdings at 394 and cattle population at 5,525 during the 2015 agricultural census. Male holders (28,874) are predominant over female holders (9,587), indicating that decisions on cattle farming are mainly done by males.

Table 5.1.2: Cattle Population and Inventory between 2004 and 2015 Censuses

| | | Population | Births | Deaths |
|----------|-------------|------------|---------|---------|
| | Traditional | 1,939,927 | 466,804 | 245,434 |
| 2004 | Commercial | 214,893 | 47,016 | 10,238 |
| | Total | 2,154,820 | 513,820 | 255,672 |
| | Traditional | 1,688,984 | 421,235 | 109,978 |
| 2015 | Commercial | 383,699 | 88,986 | 12,354 |
| | Total | 2,072,683 | 510,221 | 122,332 |
| % change | | -3.81 | -0.70 | -52.15 |

Table 5.1.2 above illustrates the change in cattle population, births and deaths between the 2004 and 2015 agricultural censuses. Since the last agricultural census, cattle population has dropped by 3.81 percent from 2,154,820 in 2004 to 2,072,683 in 2015. Births slightly dropped by 0.70 percent during the same period. However, deaths reduced by a remarkable 52.15 percent from 255,672 in 2004 to 122,332 in 2015.

Table 5.1.3: Goats Statistics: Goats Holdings, Population, Births & Deaths.

| | Go | ats Holding | S | Go | oats Populatio | n | Goats In | ventory |
|-------------------|---------------|-----------------|-------------------|---------------|-----------------|-------------|----------|---------|
| | Male owned | Female owned | Total holdings | Male owned | Female owned | Total goats | Births | Deaths |
| SOUTHERN | 5,138 | 2,662 | 7,800 | 125,874 | 46,497 | 172,371 | 76,412 | 8,418 |
| SOUTH EAST | 481 | 152 | 633 | 12,468 | 2,899 | 15,367 | 6,546 | 631 |
| KWENENG | 4,610 | 2,013 | 6,623 | 120,761 | 42,535 | 163,296 | 72,478 | 7,738 |
| KGATLENG | 1,326 | 416 | 1,742 | 42,712 | 12,514 | 55,226 | 24,096 | 1,837 |
| CENTRAL | 12,207 | 5,258 | 17,465 | 398,800 | 122,720 | 521,520 | 228,731 | 21,289 |
| NORTH EAST | 1,658 | 1,888 | 3,546 | 32,928 | 28,266 | 61,194 | 24,715 | 3,390 |
| NGAMILAND | 2,720 | 1,543 | 4,263 | 80,591 | 31,013 | 111,604 | 45,432 | 4,452 |
| GHANTSI | 589 | 175 | 764 | 22,444 | 4,526 | 26,970 | 12,172 | 896 |
| KGALAGADI | 1,095 | 469 | 1,564 | 54,937 | 14,939 | 69,876 | 31,039 | 2,013 |
| TOTAL Traditional | 29,824 | 14,576 | 44,400 | 891,515 | 305,909 | 1,197,424 | 521,621 | 50,664 |
| TOTAL Commercial | | | 898 | | | 61,987 | 24,081 | 9,623 |
| TOTAL | | | 45,298 | | | 1,259,411 | 545,702 | 60,287 |

Table 5.1.3 above illustrates goats holdings and population, births and deaths. The figures indicate that the Central district registered the highest goats holdings (17,465) and the highest goats population (521,520) in 2015. The lowest goats holdings (633) and population (15,367) were recorded in the South East district.

Likewise, the Central district had the highest births and deaths, while South East had the lowest in both births and deaths.

Table 5.1.4: Goats population and Inventory between 2004 and 2015 censuses

| | | Population | Births | Deaths |
|----------|-------------|------------|---------|---------|
| | Traditional | 1,518,456 | 731,401 | 332,844 |
| 2004 | Commercial | 31,881 | 12,074 | 6,598 |
| | Total | 1,550,337 | 743,475 | 339,442 |
| | Traditional | 1,197,424 | 521,621 | 50,664 |
| 2015 | Commercial | 61,987 | 24,081 | 9,623 |
| | Total | 1,259,411 | 545,702 | 60,287 |
| % change | | -18.77 | -26.60 | -82.24 |

Table 5.1.4 shows goats population, births and deaths recorded in the 2004 and 2015 agricultural censuses. At the national level, goats' population and births decreased during the period under review. Goats' deaths reduced steeply by 82.24 percent from 339,442 to 60,287.

Table 5.1.5: Sheep Statistics: Sheep Population, Birth & Deaths.

| | SI | heep Hold | ings | Shee | p Populatio | n | Sheep In | ventory |
|-------------------|---------------|-----------------|-------------------|------------|-----------------|----------------|----------|---------|
| | Male owned | Female owned | Total holdings | Male owned | Female owned | Total sheep | Births | Deaths |
| SOUTHERN | 2,252 | 747 | 2,999 | 46,269 | 10,742 | 57,011 | 21,583 | 6,837 |
| SOUTH EAST | 113 | 28 | 141 | 1,663 | 397 | 2,060 | 786 | 218 |
| KWENENG | 1,830 | 579 | 2,409 | 30,146 | 6,370 | 36,516 | 13,333 | 3,608 |
| KGATLENG | 407 | 92 | 499 | 8,913 | 1,130 | 10,043 | 3,895 | 810 |
| CENTRAL | 3,617 | 1,077 | 4,694 | 59,146 | 14,812 | 73,958 | 26,593 | 9,486 |
| NORTH EAST | 260 | 99 | 359 | 4,363 | 1,050 | 5,413 | 1,559 | 530 |
| NGAMILAND | 457 | 136 | 593 | 11,830 | 2,870 | 14,700 | 4,849 | 1,940 |
| GHANTSI | 152 | 26 | 178 | 5,147 | 716 | 5,863 | 1,997 | 518 |
| KGALAGADI | 654 | 191 | 845 | 25,957 | 5,243 | 31,200 | 12,329 | 2,862 |
| TOTAL Traditional | 9,742 | 2,975 | 12,717 | 193,434 | 43,330 | 236,764 | 86,924 | 26,809 |
| TOTAL Commercial | | | 502 | | | 28,198 | 9,646 | 3,513 |
| TOTAL | | | 13,219 | | | 264,962 | 96,570 | 30,322 |

Table 5.1.5 displays sheep holdings, population, births and deaths. The figures indicate that, of the total sheep holdings across districts, the Central district had the highest sheep holdings (4,694) and the highest sheep population (73,958). The lowest sheep holdings (141) and sheep population (2,060) were in the South East district.

Table 5.1.6: Sheep Population and Inventory between 2004 and 2015 Agricultural Censuses

| | | Population | Births | Deaths |
|----------|-------------|------------|--------|--------|
| | Traditional | 232,168 | 92,080 | 45,579 |
| 2004 | Commercial | 11,734 | 3,604 | 1,822 |
| | Total | 243,902 | 95,684 | 47,401 |
| | Traditional | 236,764 | 86,924 | 26,809 |
| 2015 | Commercial | 28,198 | 9,646 | 3,513 |
| | Total | 264,962 | 96,570 | 30,322 |
| % change | | 8.63 | 0.93 | -36.03 |

Table 5.1.6 illustrates sheep population, births and deaths. Unlike cattle and goats, the sheep population realised an increase between the 2004 and the 2015 agricultural censuses, from 243,902 to 264,962. Under the review period, sheep registered a slight increase in births (0.9 percent) and a marked decrease in deaths (36.0 percent).

5.2 Crop Statistics

Table 5.2.1: Holdings Planted: Sorghum, Maize, Pulses, Millet, Sunflower and Groundnuts

| | | Hold | lings planted | l by type o | fcrop | |
|-------------------|---------|--------|---------------|-------------|-----------|------------|
| | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts |
| SOUTHERN | 876 | 5,390 | 4,280 | 27 | 17 | 119 |
| SOUTH EAST | 230 | 585 | 529 | - | 8 | 12 |
| KWENENG | 1,997 | 5,943 | 7,232 | 45 | 80 | 592 |
| KGATLENG | 611 | 1,374 | 1,617 | 102 | 47 | 60 |
| CENTRAL | 10,265 | 12,177 | 16,084 | 3,444 | 1,066 | 3,997 |
| NORTH EAST | 2,610 | 2,593 | 3,736 | 1,545 | 187 | 1,477 |
| NGAMILAND | 1,516 | 2,715 | 2,653 | 1,342 | 22 | 824 |
| GHANTSI | 14 | 177 | 169 | 19 | - | 6 |
| KGALAGADI | 73 | 230 | 239 | 2 | 8 | 29 |
| TOTAL Traditional | 18,192 | 31,184 | 36,539 | 6,526 | 1,435 | 7,116 |
| TOTAL Commercial | 49 | 59 | 54 | 2 | 7 | 1 |
| TOTAL | 18,241 | 31,243 | 36,593 | 6,528 | 1,442 | 7,117 |

Table 5.2.1 shows the number of holdings by district planted for sorghum, maize, beans/pulses, groundnuts and sunflower. The figures show that beans was the dominant crop in the holdings planted. Central District had the highest number of holdings planted than any other districts, while Ghantsi District had the lowest number of holdings planted. Ghantsi and Kgalagadi Districts usually have lowest holdings planted due to poor soils and unfavourable climatic conditions for crops.

Table 5.2.2: Area Planted by Crop (Hectares) (Sorghum, Maize, Beans/Pulses, Millet, Sunflower and Groundnuts)

| | | Area pla | nted (hec | tares) by | type of crop |) |
|-------------------|---------|----------|-----------|-----------|--------------|------------|
| | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts |
| SOUTHERN | 3,160 | 25,989 | 6,265 | 31 | 30 | 97 |
| SOUTH EAST | 309 | 821 | 241 | 0 | 8 | 2 |
| KWENENG | 2,780 | 12,772 | 4,529 | 25 | 73 | 218 |
| KGATLENG | 960 | 2,624 | 974 | 60 | 28 | 26 |
| CENTRAL | 12,342 | 16,154 | 8,746 | 2986 | 396 | 1367 |
| NORTH EAST | 1,729 | 1,843 | 884 | 734 | 37 | 264 |
| NGAMILAND | 1,888 | 2,533 | 1,162 | 1118 | 13 | 162 |
| GHANTSI | 9 | 184 | 82 | 14 | 0 | 1 |
| KGALAGADI | 34 | 192 | 169 | 1 | 1 | 7 |
| TOTAL Traditional | 23,211 | 63,112 | 23,052 | 4,969 | 586 | 2,144 |
| TOTAL Commercial | 18,464 | 3,326 | 9,810 | 93 | 1,385 | 5 |
| TOTAL | 41,675 | 66,438 | 32,862 | 5,062 | 1,971 | 2,149 |

Table 5.2.2 illustrates area planted by crop (sorghum, maize, millet, cow peas, sunflower and groundnuts). Out of the total area planted nationally, the largest proportion was allocated to maize (66,438 ha).

Table 5.2.3: Area Planted (hectares) by type of crop between 2004 and 2015 censuses

| | | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts |
|----------|-------------|---------|--------|--------|--------|-----------|------------|
| | Traditional | 48,454 | 63,214 | 15,284 | 7,113 | 195 | 1,093 |
| 2004 | Commercial | 11,835 | 615 | 535 | - | 2,756 | - |
| | Total | 60,289 | 63,829 | 15,819 | 7,113 | 2,951 | 1,093 |
| | Traditional | 23,211 | 63,112 | 23,052 | 4,969 | 586 | 2,144 |
| 2015 | Commercial | 18,464 | 3,326 | 9,810 | 93 | 1,385 | 5 |
| | Total | 41,675 | 66,438 | 32,862 | 5,062 | 1,971 | 2,149 |
| % change | | -30.87 | 4.09 | 107.74 | -28.84 | -33.21 | 96.61 |

Table 5.2.4: Area Harvested By Crop (Hectares) (Sorghum, Maize, Pulses, Millet, Sunflower and Groundnuts)

| | | Area Ho | arvested (hecta | res) by type o | f crop | |
|-------------------|---------|---------|-----------------|----------------|-----------|------------|
| | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts |
| SOUTHERN | 71 | 778 | 755 | 0 | 0 | 12 |
| SOUTH EAST | 96 | 74 | 133 | 0 | 3 | 2 |
| KWENENG | 323 | 1,187 | 1,298 | 7 | 12 | 105 |
| KGATLENG | 64 | 105 | 89 | 4 | 8 | 3 |
| CENTRAL | 3,649 | 3,800 | 4,340 | 2399 | 396 | 1367 |
| NORTH EAST | 1,036 | 669 | 736 | 548 | 78 | 264 |
| NGAMILAND | 155 | 223 | 187 | 97 | 5 | 16 |
| GHANTSI | 1 | 19 | 32 | 4 | 0 | 2 |
| KGALAGADI | 16 | 33 | 79 | 0 | 0 | 7 |
| TOTAL Traditional | 5,411 | 6,888 | 7,649 | 3,059 | 502 | 1,778 |
| TOTAL Commercial | 17,938 | 1,539 | 9,596 | 93 | 1,385 | 5 |
| TOTAL | 23,349 | 8,427 | 17,245 | 3,152 | 1,887 | 1,783 |

Table 5.2.4 shows area harvested by crop (sorghum, maize, millet, beans/pulses, sunflower and groundnuts. Of the total area harvested, the highest was recorded for sorghum (23,349 ha) than for any other crop. The commercial sector by far has the highest area harvested for sorghum (17,938 ha) compared to the traditional sector (5,411). On the other hand, the traditional sector recorded more area harvested for maize (6,888 ha) than the commercial sector (1,539 ha).

Under the traditional sector, the largest area harvested was recorded for beans (7,649 ha) followed by maize (6,888 ha).

Table 5.2.5: Area Harvested (hectares) by Type of Crop between 2004 and 2015 Agricultural Censuses

| | | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts |
|----------|-------------|---------|--------|--------|--------|-----------|------------|
| | Traditional | 38,736 | 42,804 | 7,702 | 6,423 | 115 | 558 |
| 2004 | Commercial | 11,832 | 586 | 428 | - | 2,741 | - |
| | Total | 50,568 | 43,390 | 8,130 | 6,423 | 2,856 | 558 |
| | Traditional | 5,411 | 6,888 | 7,649 | 3,059 | 502 | 1,778 |
| 2015 | Commercial | 17,938 | 1,539 | 9,596 | 93 | 1,385 | 5 |
| | Total | 23,349 | 8,427 | 17,245 | 3,152 | 1,887 | 1,783 |
| % change | | -53.83 | -80.58 | 112.12 | -50.93 | -33.93 | 219.53 |

Table 5.2.5 shows area harvested for sorghum, maize, millet, beans/pulses, groundnuts and sunflower during the 2004 and 2015 agricultural censuses. According to the table, there is a significant decrease in area harvested for all crops except for beans and groundnuts which, on the reverse, showed a substantial increase in area harvested.

Table 5.2.6: Total Production by Crop (Metric Tons) (Sorghum, Maize, Pulses, Millet, Sunflower and Groundnuts)

| | Total Production (metric tonnes) by type of crop | | | | | | | | |
|-------------------|--|-------|--------|--------|-----------|------------|--|--|--|
| | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts | | | |
| SOUTHERN | 71 | 783 | 755 | - | - | 12 | | | |
| SOUTH EAST | 96 | 74 | 133 | - | 3 | 2 | | | |
| KWENENG | 323 | 1,185 | 1,298 | 7 | 12 | 105 | | | |
| KGATLENG | 64 | 105 | 89 | 4 | 8 | 3 | | | |
| CENTRAL | 3,649 | 3,801 | 4,328 | 2,399 | 398 | 1,508 | | | |
| NORTH EAST | 1,036 | 669 | 736 | 548 | 78 | 394 | | | |
| NGAMILAND | 155 | 223 | 189 | 97 | 5 | 16 | | | |
| GHANTSI | 1 | 19 | 32 | 4 | - | 2 | | | |
| KGALAGADI | 16 | 33 | 79 | - | - | 8 | | | |
| TOTAL Traditional | 5,411 | 6,892 | 7,639 | 3,059 | 504 | 2,050 | | | |
| TOTAL Commercial | 33,581 | 2,375 | 6,391 | 42 | 1,320 | - | | | |
| TOTAL | 38,992 | 9,267 | 14,030 | 3,101 | 1,824 | 2,050 | | | |

Table 5.2.6 shows total production for sorghum, maize, millet, cow peas, groundnuts and sunflower. Sorghum recorded the highest production at the aggregate level (38,992 metric tons) followed by beans at 14,030 metric tons.

Table 5.2.7: Total Production (Metric Tonnes) by type of crop between 2004 and 2015 censuses

| | | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts |
|----------|-------------|---------|-------|--------|--------|-----------|------------|
| 2004 | Traditional | 10,581 | 7,223 | 2,049 | 2,697 | 22 | 270 |
| | Commercial | 1,175 | 313 | 128 | - | 465 | - |
| | Total | 11,756 | 7,536 | 2,177 | 2,697 | 487 | 270 |
| 2015 | Traditional | 5,411 | 6,892 | 7,639 | 3,059 | 504 | 2,050 |
| | Commercial | 33,581 | 2,375 | 6,391 | 42 | 1,320 | 2 |
| | Total | 38,992 | 9,267 | 14,030 | 3,101 | 1,824 | 2,052 |
| % change | | 231.68 | 22.97 | 544.45 | 14.98 | 274.54 | 660.02 |

Table 5.2.7 illustrates total production for sorghum, maize, millet, cowpeas, groundnuts and sunflower for the 2004 and 2015 agricultural censuses. Production improved for all crops during the review period. Production of ground nuts, beans and sorghum increased remarkably by 660%, 544% and 231% respectively during the 2015 agricultural season compared to the 2004 season.

Table 5.2.8: Yield Per Hectare Planted (Kg/HA) By Crop (Sorghum, Maize, Beans/Pulses, Millet, Groundnuts and sunflower)

| | Yield per hectare planted (Kg/ha) by type of crop | | | | | | | | | |
|-------------------|---|-------|-------|--------|-----------|------------|--|--|--|--|
| | Sorghum | Maize | Beans | Millet | Sunflower | Groundnuts | | | | |
| SOUTHERN | 22 | 30 | 121 | - | - | 124 | | | | |
| SOUTH EAST | 311 | 90 | 552 | - | 375 | 1,000 | | | | |
| KWENENG | 116 | 93 | 287 | 280 | 164 | 482 | | | | |
| KGATLENG | 67 | 40 | 91 | 67 | 286 | 115 | | | | |
| CENTRAL | 296 | 235 | 495 | 803 | 1,005 | 1,103 | | | | |
| NORTH EAST | 599 | 363 | 833 | 747 | 2,108 | 1,492 | | | | |
| NGAMILAND | 82 | 88 | 163 | 87 | 385 | 99 | | | | |
| GHANTSI | 111 | 103 | 390 | 286 | - | 2,000 | | | | |
| KGALAGADI | 471 | 172 | 467 | - | - | 1,143 | | | | |
| TOTAL Traditional | 233 | 109 | 331 | 616 | 860 | 956 | | | | |
| TOTAL Commercial | 1819 | 714 | 651 | 452 | 953 | 410 | | | | |
| TOTAL | 936 | 139 | 427 | 613 | 925 | 955 | | | | |

Table 5.2.8 shows yield per hectare planted (kg/ha) by crop and region. The commercial sector recorded high yields per hectare compared to the traditional sector in all the crops except for millet and groundnuts.





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