

# Agricultural Census 2020 – preliminary results in Mazowieckie Voivodship

1 October 2021

**↓ 9.1%**

Decrease in the number of holdings compared to Agricultural Census 2010

According to the preliminary results of the Agricultural Census 2020 the downward trend in the number of agricultural holdings, which had been recorded for many years, was maintained in 2020, with a simultaneous increase in their average area. Compared to the results obtained in AC 2010, the total area of land has increased. In the analysed period, the number of poultry increased the most, and the number of cattle and pigs increased as well.

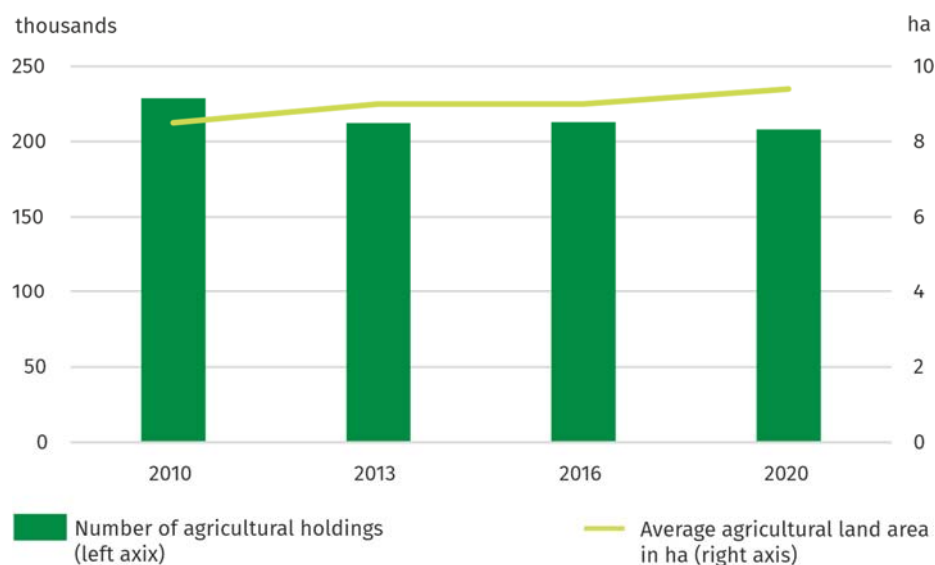
The Agricultural Census (AC) was carried out on the territory of Poland in the period from 1 September to 30 November 2020, as of 1 June 2020.

As a complete survey, the agricultural census included holdings managed by natural persons (private farms), as well as legal persons and organisational units without legal personality.

## Agricultural holdings

According to the preliminary results of the Agricultural Census 2020, the total number of holdings in Mazowieckie Voivodship amounted to 208 thousand and in relation to the Agricultural Census 2010 it decreased by 21 thousand, i.e. by 9.1%. Private farms dominating in agriculture (207 thousand) accounted for 99.6% of all farms.

**Chart 1. Agricultural holdings and average agricultural land area per holding**



The observed decrease in the number of farms, with a slight decrease in the area of agricultural land, was reflected in the increase (by 10.6%) of the average area of agricultural land per holdings from 8.5 ha in 2010 to 9.4 ha in 2020.

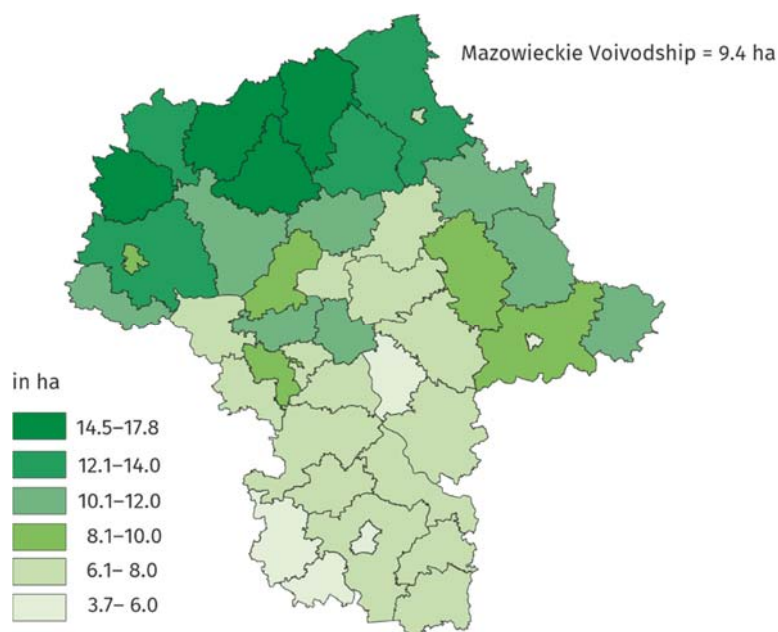
A decrease in the number of holdings was recorded among holdings with an area of 1 ha to 20 ha of agricultural land. The deepest decrease concerned the area group of 5-10 ha (by 14.7%) and 10-15 ha (by 10.6%). The increase was recorded in the group of holdings with a utilised agricultural area of 50 ha and more (by 70.9%), up to 1 ha inclusive (by 11.4%) and from 20-50 ha (by 8.7%).

The structure of agricultural holdings slightly improved. The share of the smallest holdings with an area of up to 10 ha of agricultural land decreased from 74.8% in 2010 to 73.0% in 2020, and at the same time the share of holdings with an area of 20 ha and more of agricultural land increased from 7.0% in 2010 to 8.9% in 2020.

**Table 1. Structure of agricultural holdings**

Area groups of agricultural land	2010		2020	
	In thousands	In percent	In thousands	In percent
<b>TOTAL</b>	<b>229</b>	<b>100,0</b>	<b>208</b>	<b>100,0</b>
Up to 1 ha inclusive	3	1,3	3	1,5
1-5 ha	102	44,5	92	44,2
5-10	66	29,0	57	27,2
10-15	29	12,7	26	12,5
15-20	13	5,6	12	5,7
20-50	14	6,1	15	7,3
50 ha and more	2	0,8	3	1,6

**Map 1. Average agricultural land area in agricultural holdings in 2020**



The average area of agricultural land per holding was the highest in mławski powiat, and the lowest – in the city of Radom

### Land use and sown area

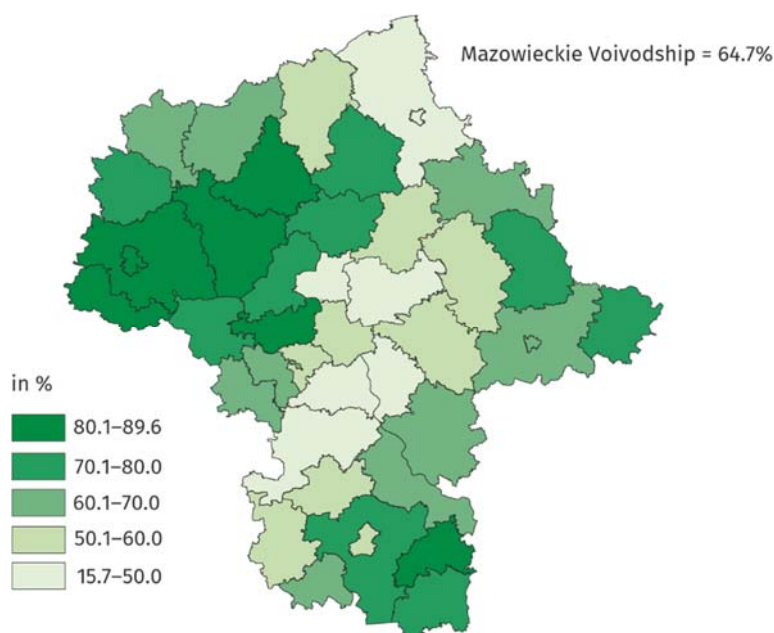
According to the preliminary results of the Agricultural Census 2020 the total area of land used by agricultural holdings amounted to 2,268 thousand ha and in the last 10 years, i.e. from the Agricultural Census 2010, it increased by 2 thousand ha (by 0.1%).

**Table 2. Land use in agricultural holdings**

Years	Agricultural land area					
	Grand total	of which agricultural land in good agricultural condition				
		total	of which			
			sown area	fallow land	permanent crops	permanent grassland
In thousand hectares						
2010	1944	1899	1206	59	108	524
2020	1962	1932	1269	28	114	519
2010=100						
2020	100,9	101,7	105,2	48,0	104,9	99,1
In percent of total agricultural land						
2010	100,0	97,7	62,0	3,0	5,6	26,9
2020	100,0	98,5	64,7	1,4	5,8	26,5

Agricultural land in agricultural holdings occupied 1,962 thousand ha, constituting 86.5% of the total area. Compared to 2010, the area of this land increased by 18 thousand ha (by 0.9%). Agricultural land in good agricultural condition occupied 1,932 thousand ha, i.e. 98.5% of the area of agricultural land, while the area of other agricultural land amounted to 30 thousand ha and accounted for 1.5%.

**Map 2. Share of sown area in total area of agricultural land in 2020**

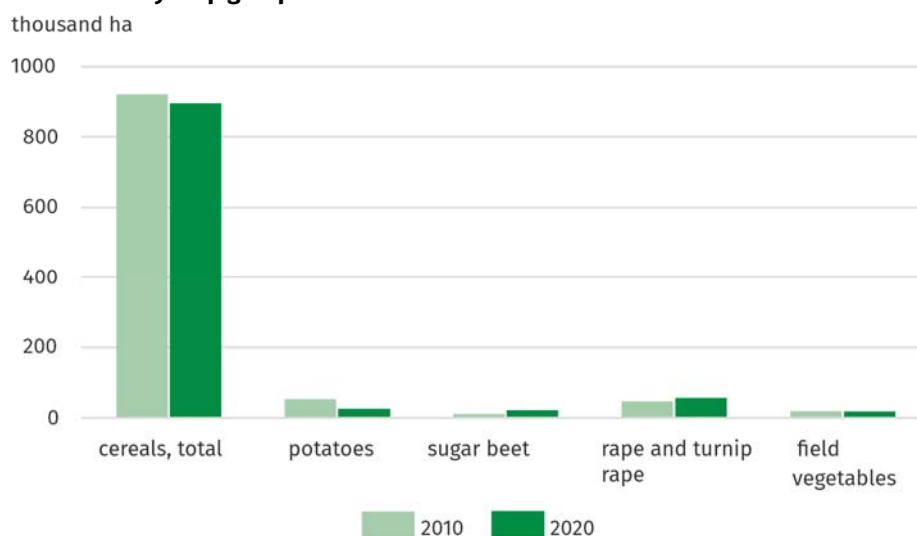


The highest share of sown area in the total area of agricultural land was recorded in płocki powiat, and the lowest in grójecki powiat

In the internal structure of agricultural land, the largest area was occupied by sown area – 1,269 thousand ha, and then permanent grassland – 519 thousand ha, while permanent meadows were cultivated on the area of 461 thousand ha, and permanent pastures on the area of 58 thousand ha. 114 thousand ha were intended for permanent crops. The area of fallow land amounted to 28 thousand ha.

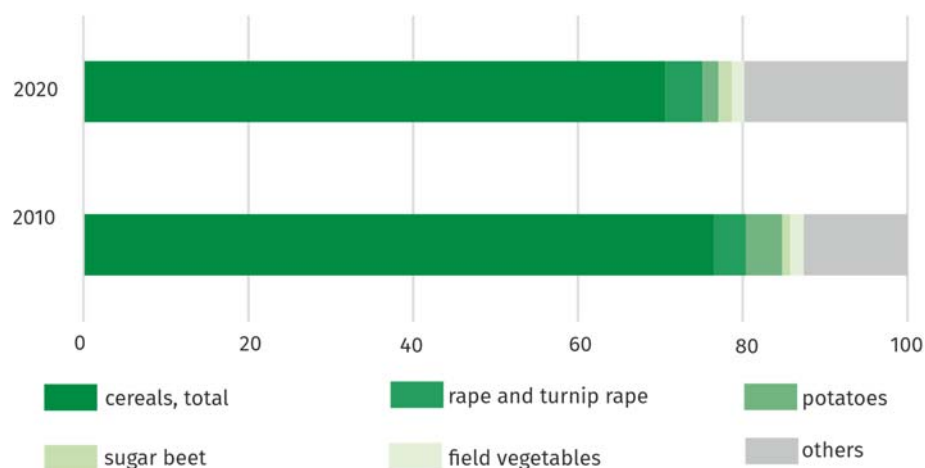
The major part of the agricultural land area was sown area

**Chart 2. Sown area by crop groups**



In the structure of sown area, total cereals were still the dominant crop, the cultivation area of which amounted to 896 thousand ha. The share of the total cereal area in the Voivodship in the total area of these crops in the country was 12.1%. In 2020, the area of rape and turnip rape amounted to 57 thousand ha, and the share of the voivodship acreage in the national area of these crops was 5.8%. The area under potatoes was 26 thousand ha, and under sugar beets 20 thousand ha, which constituted respectively 11.3% and 8.0% of the national area. Vegetables were grown on an area of 19 thousand ha, which constituted 13.2% of the acreage in the national area of this cultivation.

**Chart 3. Share of the main agricultural crops in the total sown area**



In the structure of sown area, the share of cereals, potatoes and field vegetables decreased, while the share of sugar beet, rape and turnip rape increased.

Comparing the previous years to the data from 2020, we can observe changes in the structure of sowing individual crops. Compared to 2010, the share of cereals in total decreased by 5.9 pp, potatoes by 2.4 pp and field vegetables by 0.1 pp, while the share of sugar beet, rape and turnip rape increased by 0.6 pp and 0.5 pp, respectively.

## Farm animals

According to the preliminary results of the Agricultural Census 2020 the number of major farm animals in agricultural holdings was:

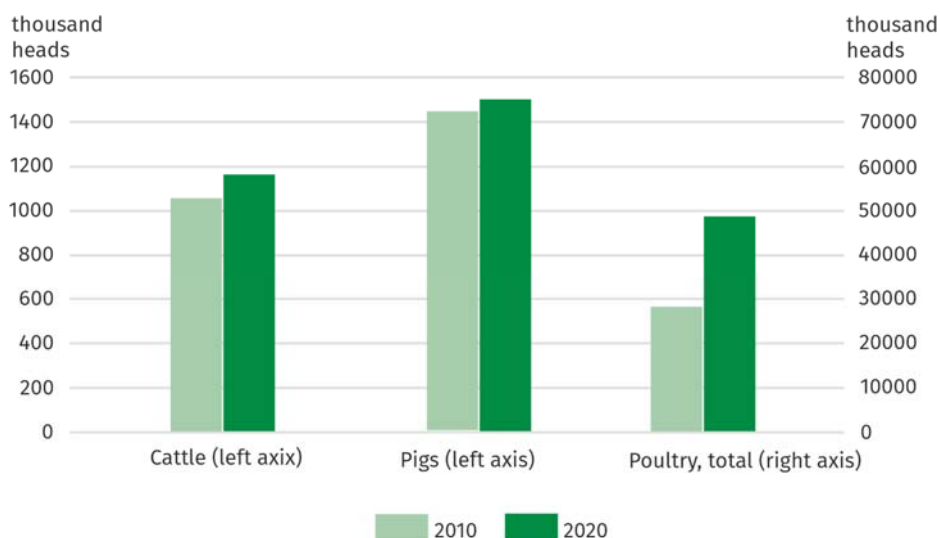
- cattle – 1169 thousand heads, of which cows – 524 thousand heads,
- pigs – 1496 thousand heads, of which sows – 61 thousand heads,
- total poultry – 48813 thousand heads, of which laying hens – 9881 thousand heads.

Compared to the results of the 2010 census, there was a significant increase in total poultry – by 74.0%. There was also an increase in the number of cattle and pigs; by 10.5% and 4.1%, respectively.

The results of AC 2020 showed that agricultural holdings in Mazowieckie Voivodship kept 18.5% of the domestic cattle and 21.6% of the domestic poultry, taking first place in both cases. On the other hand, the voivodship's share in the domestic pig population was 13.4%; second place in the country after Wielkopolskie Voivodship.

In 2020, the number of livestock per 100 ha of agricultural land was as follows: for cattle – 60 heads, for pigs – 76 heads, and for poultry – 2488 heads. Compared to 2010, this indicator was higher, respectively: for cattle by 6 heads, for pigs by 2 and for poultry by 1045 heads.

**Chart 4. Livestock population**



On average in the country, the number of cattle per 100 ha of agricultural land in 2020 amounted to 43 heads and was lower by 17 heads than that recorded in Mazowieckie Voivodship. In the case of pigs, the discussed indicator for the country amounted to 76 heads (the same as in the Voivodship), while for poultry it was 1537, i.e. by 951 heads fewer.

## Fertilising crops

In Mazowieckie Voivodship, according to the AC 2020 results, the consumption of mineral fertilisers (per pure ingredient) amounted to 232 thousand tonnes and increased by 19.0% compared to AC 2010. During this period, the consumption of nitrogenous fertilisers increased by 5.4%, phosphatic by 14.5%, and potassic by 59.5%. The voivodship's share in the national consumption of mineral fertilisers was 11.9% and was one of the highest in the country, after Wielkopolskie Voivodship.

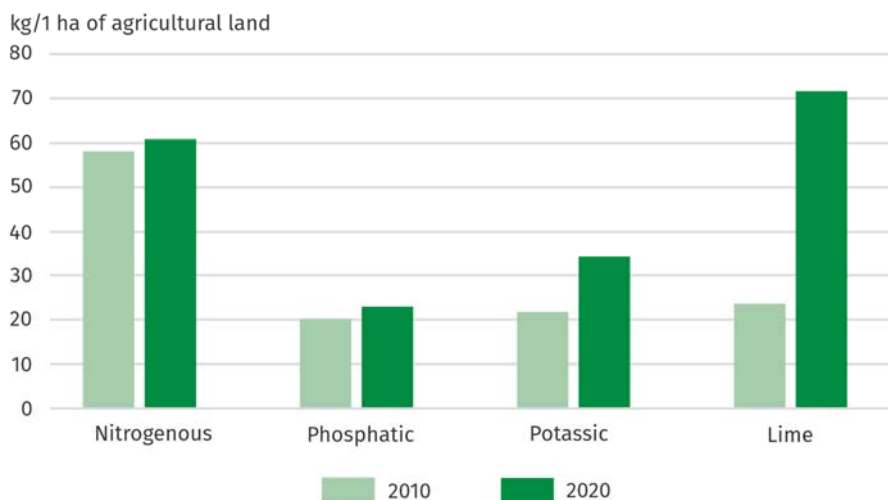
In 2020, a total of 118.1 kg of NPK was used per 1 ha of agricultural land, i.e. by 17.9% more than in 2010. In relation to the national average consumption of mineral fertilisers amounting to 132.9 kg per 1 ha of agricultural land, the level of fertilisation in Mazowieckie Voivodship was lower by 11.1%.

**Table 3. Consumption of mineral and lime fertilisers**

Years	Fertilisers per pure ingredient				
	mineral				lime
	total	nitrogenous	phosphatic	potassic	
In thousand tonnes					
2010	195	113	39	42	46
2020	232	119	45	68	140
2010=100					
2020	119,0	105,4	114,5	159,5	306,2
Per 1 ha of agricultural land in kg					
2010	100,2	58,2	20,2	21,8	23,6
2020	118,1	60,8	22,9	34,4	71,6

In 2020, farms used 140 thousand tonnes of lime fertilisers for sowing and it was 3 times more than 10 years ago. 71.6 kg of lime fertilisers were used per 1 ha of agricultural land, also three times more than in 2010. The average national consumption of lime fertilisers per 1 ha of agricultural land was 91.3 kg, and it was by 21.6% higher than in Mazowieckie Voivodship.

**Chart 5. Consumption of mineral and lime fertilisers**



The consumption of both mineral and lime fertilisers increased

## Tractors and agricultural machines

According to the results of the 2020 agricultural census, there were 231 thousand tractors, i.e. by 9.3% more than in 2010, in agricultural holdings in Mazowieckie Voivodship. With the sustained predominance of cereals in the structure of the sown area and the simultaneous increase in the area under rape and turnip rape in 2020, there were 20 thousand units of combine harvesters, i.e. by 15.4% more than in 2010. With the increase in the area under sugar beets and the decrease in the area under potato, the number of combine harvesters for harvesting these crops decreased, by 70% and over 30%, respectively. The number of forage harvesters also clearly decreased – by more than 60%.

The total number of tractors and combine harvesters increased, while the number of beet and potato harvesters decreased

**Table 4. Tractors and agricultural machines**

Years	Tractors	Combine harvesters			Forage harvesters
		cereals	beet	potatoes	
In thousand units					
2010	211	17	1	13	2
2020	231	20	0	9	1
2010=100					
2020	109,3	115,4	30,0	67,8	37,3
Per 100 of agricultural holdings					
2010	92,2	7,5	0,6	5,7	0,7
2020	110,8	9,6	0,2	4,3	0,3

In 2020, there were on average 1.1 tractors per 1 agricultural holding, compared to 0.9 in 2010.

The remaining indicators concerning the number of machines per 100 agricultural holdings over 10 years did not change significantly. On the national scale, as in 2010, the largest number of tractors was in Mazowieckie Voivodship. In 2020, their share amounted to 15.9%.

**Chart 6. Tractors and agricultural machines**



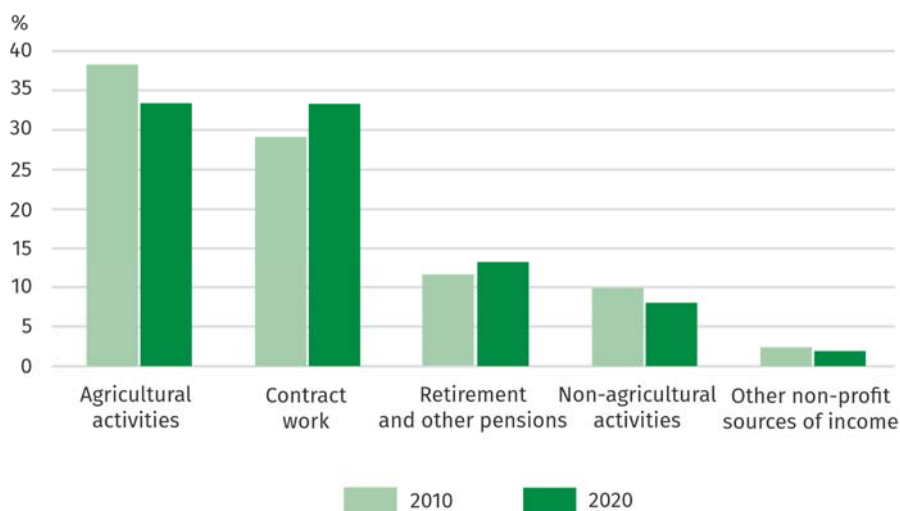
### Sources of income of households with a holder of an agricultural holding

In the period from 2 June 2019 to 1 June 2020, more than 207 thousand of households with a farm holder obtained income from agricultural activity.

Agricultural activity constituted the main source of income, i.e. a source of income exceeding 50% of total income, for only one third of households with a farm holder. The percentage of households living mainly from agriculture decreased over the years 2010–2020 from 38.3% to 33.4%. In the case of other households holding farms, the main sources of income were: contract work (33.3%), retirement and other pensions (13.3%), non-agricultural activities (8.0%) and other non-profit sources of income (1.9 %). In 2010 it was respectively: 29.1%, 9.9%, 9.9% and 2.4%. It should be noted a decrease in the percentage of households earning the main income from non-agricultural activities and an increase in the percentage of households earning the main income from contract work and retirement and other pensions.

One third of households with a holder obtained the main income from agricultural activity

**Chart 7. Structure of households with holder of an agricultural holding by main source of income**



Nationally, the highest percentage of households with a holder of an agricultural holding earning the main income from agricultural activity was recorded in Kujawsko-Pomorskie Voivodship (50.7%); Mazowieckie Voivodship took eighth position.

\* \* \*

In the case of quoting data from Statistics Poland, please provide information: "Source of data – Statistics Poland", and in the case of publishing calculations made on data published by Statistics Poland, please provide information: "Own study based on Statistics Poland data".



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**Related information:**

Publication of Statistics Poland titled *Agricultural Census 2020. Report on the results*

<https://stat.gov.pl/obszary-tematyczne/rolnictwo-lesnictwo/psr-2020/powszechny-spis-rolny-2020-raport-z-wynikow,4,1.html>

Publication of Statistics Poland titled *Agricultural Census 2020. Research methodology and organisation*

<https://stat.gov.pl/obszary-tematyczne/rolnictwo-lesnictwo/psr-2020/powszechny-spis-rolny-2020-metodologia-i-organizacja-badania,3,1.html>

**Major terms and methodological explanations were included in the above-mentioned information.**

**Data available in databases:**

Local Data Bank – Agricultural Censuses – AC 2020

<https://bdl.stat.gov.pl/BDL/start>

