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## 10. Agriculture

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## 10. Agriculture

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## Notes on methodology

### Plant production

#### Sources and methods of data gathering

The data on plant production of agricultural enterprises and agricultural cooperatives are collected by regular statistical surveys with total coverage. The reported data are based on accounting and other records. The data on individual agricultural holdings are collected by estimation, which is performed by statistical estimators. They give information on the regions that are estimated, which as a rule coincide with the cadastral municipalities. The estimators are mainly agricultural experts and progressive farmers acquainted with the local conditions and trained for the purpose. The statistical offices are in continuous contact with them. The estimators perform their work on the basis of the last cadastral data, previous estimates, their own knowledge and other sources.

#### Scope

The data cover total capacities and the production of agricultural enterprises, agricultural cooperatives and individual agricultural holdings.

#### Definitions

Cultivated area refers to land area under cultivation, used for growing field crops, perennial plants and grasses, and where cultivation, harvesting and other agricultural activities are performed, producing an annual yield.

Cultivated area consists of arable land and gardens, orchards, vineyards and meadows.

Agricultural area is land area used for agricultural production (arable land and gardens, orchards, vineyards, meadows, pastures).

Arable land refers to land area where crop production takes place and which is sown with field crops: cereals, industrial crops, vegetables and fodder crops.

Fruit-bearing trees and grape-vines refer to trees and vines which by their physiological ripeness are ready to bear fruit under normal conditions for vegetation, regardless of whether they bore fruit or not in the reference year.

The yield of crops is shown as barn yield with normal humidity after deducting all losses incurred during harvest, transport and moving.

### Livestock production

#### Sources and methods of data gathering

The data on the number of livestock (cattle, pigs, sheep and goats), poultry and beehives are taken from the Annual Report on the Number of Livestock in Agricultural Enterprises and Cooperatives, and the data on individual agricultural holdings are gathered by the Survey on the Number of Livestock.

#### Scope

Reporting units for the number of livestock in agricultural enterprises and cooperatives are the business entities which according to the National Classification of Activities are registered in section A, division 01, group 01.4, 01.5, and for the individual agricultural holdings the reporting units are a sample from the Livestock Survey. The selection of agricultural holdings (the sample) for the survey is prepared from the Statistical Register of Agricultural Holdings, comprising 625 statistical districts, or 5000 households, spread over the whole territory of the Republic of North Macedonia.

#### Definitions

The livestock balance refers to herd coverage during the year, where changes in the number of head of livestock are registered.

Increase in livestock refers to livestock production (live weight) during the year as the result of breeding, increase and raising of livestock.

Total increase of individual types of livestock refers to the live weight of slaughtered animals, the weight difference between bought and sold heads and the weight difference of livestock at the beginning and the end of the year.

Gross weight of livestock refers to the weight of live animals before slaughter.

Net weight refers to weight of slaughtered livestock without hide, blood, head, entrails, front legs up to the knees and rear legs up to the ankles.

Rendered weight refers to the ratio between the gross and net weight, by percentage.

-1001.1:

## T-1001.1: Product on of wheat, maize and sugar beet

	/ Wheat		/ Maize		/ Sugar beet	
	tonnes	kg. per hectare	tonnes	kg. per hectare	tonnes	kg. per hectare
1993	249 789	2 135	101 063	2 261	55 102	24 392
1994	336 133	2 754	133 211	3 118	54 103	33 479
1995	381 226	2 930	165 652	3 902	54 607	40 330
1996	269 303	2 292	142 421	3 388	78 278	39 178
1997	293 762	2 549	157 234	3 915	72 249	33 142
1998	336 562	2 961	140 949	3 593	58 090	32 562
1999	319 419	2 803	160 550	4 093	67 036	29 286
2000	299 356	2 472	125 383	3 382	56 450	27 918
2001	246 208	2 132	117 070	3 563	38 282	22 937
2002	266 961	2 641	140 694	4 124	43 817	29 368
2003	225 300	2 177	136 492	4 051	40 154	31 717
2004	356 825	3 522	141 875	4 364	47 223	30 625
2005	333 880	3 081	148 234	4 491	57 836	36 352
2006	293 326	3 010	147 494	4 649	415	59 286
2007	218 076	2 402	118 378	3 836	7 852	32 579
2008	291 719	3 414	127 125	4 099	-	-
2009	271 117	3 076	154 237	4 751	-	-
2010	243 137	3 044	129 045	4 508	-	-
2011	256 103	3 346	126 096	4 294	-	-
2012	214 963	2 696	115 928	3 973	-	-
2013	258 960	3 198	131 043	4 223	-	-
2014	287 954	3 755	136 930	4 495	-	-
2015	201 218	2 754	133 771	4 226	-	-
2016	306 433	3 838	143 823	4 633	-	-
2017	200 112	2 746	120 156	3 840	-	-
2018	241 106	3 396	187 676	5 164	-	-



-1001.2

## T-1001.2 Product on of sunf ower, tobacco and grapes

	/ Sunflower		/ Tobacco		/ Grapes	
	tonnes	kg. per hectare	tonnes	kg. per hectare	tonnes	kg. per vine
1993	18 841	678	24 002	1 123	127 992	1
1994	17 880	858	18 862	1 269	205 486	2
1995	22 290	1 554	15 683	1 440	190 677	2
1996	20 586	1 248	15 412	1 313	214 513	2
1997	14 902	1 129	25 308	1 312	258 360	3
1998	13 148	1 050	32 746	1 309	243 567	3
1999	13 937	1 417	29 368	1 189	230 104	2
2000	7 351	1 234	22 175	973	264 256	3
2001	5 475	907	23 217	1 157	229 805	3
2002	8 760	1 344	22 911	1 116	118 935	1
2003	6 794	1 268	23 986	1 332	243 821	3
2004	7 764	1 507	21 630	1 221	254 613	3
2005	6 711	1 330	27 691	1 498	265 717	3
2006	6 016	1 620	25 036	1 436	254 308	3
2007	3 579	1 021	22 056	1 287	209 701	3
2008	5 444	1 171	17 087	1 001	236 834	3
2009	7 774	1 879	24 122	1 355	253 456	3
2010	7 592	1 884	30 280	1 492	253 372	3
2011	8 497	1 494	26 537	1 348	235 104	3
2012	4 765	1 270	27 333	1 392	240 461	3
2013	3 832	1 559	27 859	1 453	292 075	4
2014	9 268	1 813	27 578	1 553	195 888	2
2015	8 499	1 534	24 237	1 503	324 769	4
2016	6 266	1 608	25 443	1 554	333 319	4
2017	6 178	1 536	22 885	1 434	180 349	2
2018	3 379	1 440	25 547	1 541	294 497	3

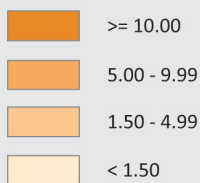
ОЖНЕАНА ПОВРШИНА СО ТУТУН, 2018  
HARVESTED TOBACCO AREA, 2018

M11

по статистички региони  
by statistical regions



Учество во вкупно ожнеаната површина со тутун, во %:  
Participation in the total harvested area with tobacco, in %:



Вкупно ожнеана површина со тутун, во ха:  
Harvested tobacco area, ha: 16582

Вкупно производство на тутун, тони:  
Production of tobacco, tonnes: 25547

Тутун, принос, кг/ха:  
Yield of tobacco, kg/ha: 1541

Извор: Државен завод за статистика  
Source: State Statistical Office

-1001.3

## T-1001.3 Product on of cow/s milk, meat and eggs

	/ Cow's milk		/ Meat	/ Eggs	
	in '000 litres	per dairy cow, litres	total, tonnes	in '000 pieces	per egg-laying hen, pieces
1993	118 398	1 325	34 009	513 390	132
1994	115 791	1 283	33 787	510 148	127
1995	128 825	1 429	29 375	485 493	132
1996	133 642	1 406	29 368	434 602	142
1997	133 308	1 396	27 800	425 910	149
1998	173 567	1 902	25 971	470 844	160
1999	202 387	2 152	26 512	445 443	158
2000	220 244	2 343	27 470	452 469	151
2001	200 904	2 096	26 041	394 676	161
2002	198 431	2 094	27 471	345 032	158
2003	191 533	2 140	29 835	283 300	140
2004	212 898	2 362	29 839	340 007	158
2005	197 464	2 245	28 264	339 669	152
2006	234 708	2 497	28 041	330 546	153
2007	373 706	2 880	27 228	321 146	187
2008	368 217	2 835	25 065	276 398	166
2009	342 622	3 004	25 362	274 043	179
2010	347 103	2 787	23 271	335 820	199
2011	376 290	2 866	21 632	295 908	193
2012	349 769	2 928	23 124	237 469	166
2013	380 736	3 009	20 856	215 536	174
2014	387 008	3 053	22 146	248 225	173
2015	361 072	2 828	21 410	203 383	150
2016	403 044	3 046	21 994	177 522	131
2017	394 140	2 867	22 879	224 596	153
2018	404 230	3 077	22 255	181 783	132

## -1001.4

## T-1001.4: Agricultural area by categories of use

in '000 hectares

	/ Cultivated land							
	Agricultural area	total	arable land and gardens	orchards	vineyards	meadows	Pastures	Ponds, reed beds and fishponds
2014	1 263	511	413	15	23	60	751	1
2015	1 264	513	415	16	23	59	750	1
2016	1 267	516	417	16	24	59	750	1
2017	1 266	517	417	16	24	60	748	1
2018	1 264	519	418	17	24	60	744	1

## T-1001.5

## T-1001.5: Arable land by categories of use

in '000 hectares

	/ Sown area							
	Arable land and gardens	total	cereals	industrial crops	vegetable crops	fodder crops	Plant nurseries	Fallowland and other arable land
2014	413	278	163	26	53	36	1	134
2015	415	277	162	24	53	38	1	137
2016	417	281	168	22	52	39	1	135
2017	417	277	161	24	52	40	1	139
2018	418	279	166	20	52	41	0	139

## T-1001.6

## T-1001.6: Area and product on of cereals

	Area, in hectares		Product on		Area, in hectares		Product on	
	sown	harvested	total, in tonnes	kg. per hectare	sown	harvested	total, in tonnes	kg. per hectare
	/ Wheat				/ Rye			
2014	76 861	76 686	287 954	3 755	4 380	4 167	11 402	2 736
2015	73 979	73 060	201 218	2 754	3 760	3 758	7 747	2 061
2016	79 898	79 832	306 433	3 838	4 490	4 483	10 210	2 277
2017	72 965	72 864	200 112	2 746	4 071	4 065	8 416	2 070
2018	73 072	70 987	241 106	3 396	3 838	3 836	9 379	2 445
	/ Barley				/ Oats			
2014	41 202	41 157	153 055	3 719	2 878	2 873	6 033	2 100
2015	41 763	41 160	101 677	2 470	3 107	3 070	5 652	1 841
2016	41 339	41 297	144 832	3 507	3 609	3 607	7 612	2 110
2017	43 973	43 816	93 666	2 138	3 480	3 415	5 421	1 587
2018	44 772	42 331	130 028	3 072	3 600	3 591	7 338	2 043
	/ Maize				/ Rice			
2014	30 493	30 461	136 930	4 495	5 174	5 174	30 500	5 895
2015	31 807	31 651	133 771	4 226	5 018	4 985	30 527	6 124
2016	31 083	31 045	143 823	4 633	5 040	5 040	24 792	4 919
2017	31 429	31 287	120 156	3 840	3 500	3 274	17 080	5 217
2018	36 417	36 340	187 676	5 164	3 222	3 222	19 732	6 124

## T-1001.7:

## T-1001.7: Area and product on of industrial crops

	Area, in hectares		Product on		Area, in hectares		Product on	
	sown	harvested	total, in tonnes	kg, per hectare	sown	harvested	total, in tonnes	kg, per hectare
	/ Sunflower				/ Tobacco			
2014	5 122	5 112	9 268	1 813	17 757	17 756	27 578	1 553
2015	5 562	5 542	8 499	1 534	16 128	16 128	24 237	1 503
2016	3 974	3 896	6 266	1 608	16 379	16 376	25 443	1 554
2017	4 073	4 022	6 178	1 536	15 961	15 959	22 885	1 434
2018	2 386	2 346	3 379	1 440	16 582	16 582	25 547	1 541

## -1001.8

## T-1001.8 Area and product on on meadows and pastures

	/ Meadows			/ Pastures		
	Harvested area, ha	total, in tonnes	kg, per hectare	Harvested area, ha	total, in tonnes	kg, per hectare
	/ Product on			/ Product on		
2014	59 960	118 034	1 969	751 086	512 249	682
2015	59 464	106 802	1 796	750 359	514 967	686
2016	59 437	112 597	1 894	749 772	493 377	658
2017	59 912	96 622	1 613	748 413	512 518	685
2018	59 685	107 347	1 799	744 667	512 336	688

-1001.9

## T-1001.9. Area and product on of vegetables

	Area, in hectares		Product on		Area, in hectares		Product on	
	sown	harvested	total, in tonnes	kg, per hectare	sown	harvested	total, in tonnes	kg, per hectare
	/ Potatoes				/ Beans-single maincrop			
2014	13 178	13 174	198 943	15 101	4 834	4 833	6 232	1 289
2015	13 360	13 360	189 408	14 177	4 783	4 783	5 569	1 164
2016	13 279	13 273	197 138	14 853	4 887	4 817	6 251	1 298
2017	13 189	13 188	177 721	13 476	4 703	4 703	4 867	1 035
2018	12 406	12 403	180 424	14 547	4 599	4 577	4 992	1 091
	/ Cabbage				/ Late cabbage			
2014	4 367	4 366	115 486	26 451	1 504	1 504	48 502	32 249
2015	4 815	4 800	144 931	30 194	1 300	1 300	48 865	37 588
2016	4 597	4 593	139 873	30 454	1 199	1 199	45 354	37 826
2017	4 505	4 499	132 821	29 522	1 239	1 239	48 518	39 159
2018	4 510	4 502	127 856	28 400	1 237	1 237	45 285	36 608
	/ Tomatoes				/ Peppers			
2014	5 746	5 720	160 530	28 065	8 528	8 522	175 867	20 637
2015	5 657	5 642	173 434	30 740	8 622	8 617	189 443	21 985
2016	5 609	5 604	161 951	28 899	8 766	8 751	181 852	20 781
2017	5 608	5 597	159 721	28 537	8 930	8 927	175 100	19 615
2018	5 570	5 569	161 621	29 021	9 196	9 179	182 872	19 923
	/ Garlic				/ Onions			
2014	956	930	4 326	4 652	3 588	3 587	59 974	16 720
2015	980	980	4 214	4 300	3 606	3 606	59 542	16 512
2016	978	978	4 221	4 316	3 584	3 581	60 958	17 022
2017	948	947	4 214	4 450	3 639	3 633	56 259	15 485
2018	959	950	4 134	4 352	3 635	3 627	59 030	16 275
	/ Melons and watermelons				/ Lent ls			
2014	5 740	5 685	136 730	24 051	80	80	98	1 226
2015	5 562	5 509	131 039	23 786	84	84	68	810
2016	5 506	5 445	139 679	25 653	84	84	110	1 312
2017	5 401	5 385	121 168	22 501	87	86	96	1 119
2018	5 281	5 281	132 091	25 013	89	81	107	1 325
	/ Potatoes-interf eld				/ Beans-interf eld			
2014	192	192	708	3 688	8 781	8 781	7 185	818
2015	224	224	998	4 456	8 795	8 795	7 789	886
2016	281	281	1 391	4 950	8 663	8 663	6 709	774
2017	248	248	1 230	4 960	8 472	8 472	5 095	601
2018	288	288	1 507	5 233	8 545	8 545	7 256	849



































































































