

MINISTRY OF AGRICULTURE AND FOOD

SOFIA 1040, HRISTO BOTEV BLVD. NO 55

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Vegetable production in Bulgaria – harvest 2023

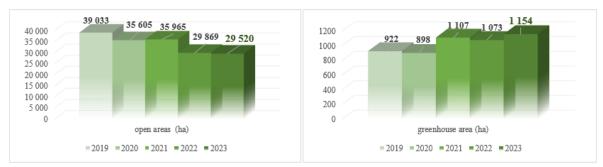
The main area for the production of vegetables in agricultural holdings was 30.7 thousand ha in 2022/2023 crop year. The open area under vegetables accounted to 29.5 thousand ha, of which 29 thousand ha were harvested. The greenhouse area was 1 154 ha. The vegetable production – harvest 2023 amounted to 594 thousand tons, of which 108 thousand tons were greenhouse production. The largest production was potatoes – 119 thousand tons, tomatoes – 116 thousand tons, watermelons – 80 thousand tons, pepper – 52 thousand tons and cucumbers – 50 thousand tons. The production of cultivated mushrooms was 1 656 tons.

Table 1. Main area for vegetable production – harvest 2023

	Unit of measure	Main area
Open area under fresh vegetables, strawberries and potatoes	ha	29 520
Greenhouses of glass or other type of hard cover (polycarbonate, etc.)	ha	297
Greenhouses of plastic cover	ha	857
Total greenhouse area	ha	1 154
Total area	ha	30 674

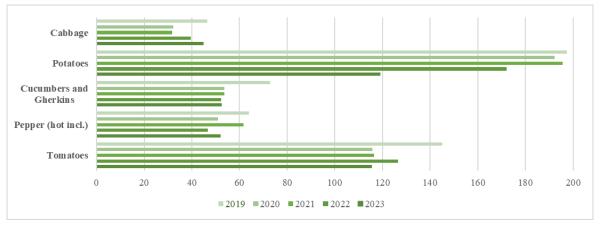
Source: Ministry of Agriculture and Food, Agrostatistics Department - Vegetable production survey - harvest 2023

Figure 1. Main area under fresh vegetables, strawberries and potatoes by year



Source: Ministry of Agriculture and Food, Agrostatistics Department - Vegetable production survey

Figure 2. Production of main vegetables by year (thousand tons)



Source: Ministry of Agriculture and Food, Agrostatistics Department - Vegetable production survey

Results and analyses

Table 2. Area, production and average yields of vegetables – harvest 2023

Type of vegetable	Open area, harvested	Greenhouse area, harvested (ha)	Open area, average yield	Production (tons)		
Type of regenance	(ha)		(kg/ha)	Open area	Greenhouse production	TOTAL
Vegetables cultivated for fruit (melons incl.)	13 735	1 181	///	250 794	106 534	357 328
Tomatoes	2 540	639	23 440	59 537	56 113	115 650
Cucumbers	324	389	17 293	5 603	44 528	50 131
Gherkins	128	c	18 617	2 383	С	(
Eggplants	357	5	28 308	10 106	132	10 238
Courgettes and marrows	154	1	19 701	3 034	15	3 049
Gourds and pumpkins	704	-	13 271	9 343	-	9 343
Melons	2 794	c	10 554	29 487	С	(
Watermelons	3 714	-	21 575	80 130	-	80 130
Pepper (hot incl.)	2 371	147	19 512	46 264	5 741	52 005
Sweet corn	649	-	7 561	4 907	-	4 907
Fresh pulses	610	2	///	1 710	20	1 730
Fresh peas	529		2 662	1 408	<u>-</u>	1 408
Fresh beans	81	2	3 728	302	20	322
Brassicas	2 003	-	///	47 090	-	47 090
Cabbage	1 847	_	24 344	44 963	_	44 96
Cauliflower	122		15 393	1 878	_	1 878
Broccoli	34		7 324	249	<u>-</u>	249
Leafy and stalked vegetables (brassicas excl.)	633	31	///	9 945	302	10 247
Garlic - green	73	1	18 466	1 348	9	1 357
Salads and lettuces	197	22	18 391	3 623	215	3 83
Spinach	36	1	4 250	153	5	15
Leek	70	-	14 757	1 033	-	1 03:
Onion - green	133	2	23 654	3 146	32	3 17
Other leafy or stalked vegetables (asparagus, savory, fennel, parsley, celery, etc.)	124	5	///	642	41	68.
Root, tuber and bulb vegetables	3 890	1	///	51 698	17	51 715
Onion	3 016	-	12 916	38 956	-	38 950
Carrots	446	-	21 765	9 707	-	9 70
Garlic	266	-	4 034	1 073	-	1 073
Other root, tuber and bulb vegetables (salad beets, turnips, radishes, etc.)	162	1	///	1 962	17	1 979
Other vegetables (okra, etc.)	407	-	///	1 490	-	1 490
Potatoes	7 019	5	16 973	119 135	104	119 239
Strawberries	691	68	5 877	4 061	1 145	5 200
Total:	28 988	1 288	///	485 923	108 122	594 045

Source: Ministry of Agriculture and Food, Agrostatistics Department – Vegetable production survey – harvest 2023

Table 3. Area, production and average yields of vegetables at NUTS2 – harvest 2023

Statistical zones & Pepper (hot Cycumbers and

Statistical zones & statistical regions	Tomatoes	Pepper (hot incl.)	Cucumbers and gherkins*	Eggplants	Watermelons*
		a, harvested (ha)			
Bulgaria	2 540	2 371	452	357	6 50
Severna i Yugoiztochna Bulgaria	750	828	279	73	3 079
Severozapaden	170	167	3	18	35
Severen tsentralen	164	38	122	3	60
Severoiztochen	126	374	30	32	1 52
Yugoiztochen	290	249	124	20	59
Yugozapadna i Yuzhna tsentralna	1 790	1 543	173	284	3 42
Bulgaria					
Yugozapaden	151	97	51	46	23
Yuzhen tsentralen	1 639	1 446	122	238	3 19
	Production, open an			10.020	100.61
Bulgaria	115 650	52 005	52 514	10 238	109 61
Severna i Yugoiztochna Bulgaria	25 199	14 642	16 811	1 552	56 90
Severozapaden	4 066	2 113	2 917	332	4 99
Severen tsentralen	6 652	766	4 635	47	10 92
Severoiztochen	4 416	6 559	2 585	625	29 87
Yugoiztochen	10 065	5 204	6 674	548	11 11
Yugozapadna i Yuzhna tsentralna	90 451	37 363	35 703	8 686	52 71
Bulgaria	26.427	2.527	17.710	1 122	4.40
Yugozapaden	26 427	2 537	17 710	1 133	4 40
Yuzhen tsentralen	64 024	34 826	17 993	7 553	48 30
Rukacria	Average yield 23 440	ls, open area (kg/h 19 512	17 668	28 308	16 84
Bulgaria Sayama i Vugaiztachna Bulgaria	19 188	16 011	18 226	28 308	18 48
Severna i Yugoiztochna Bulgaria					
Severozapaden	18 747	12 413	10 333	18 389	14 17
Severen tsentralen	15 442	11 842	17 295	15 000	18 15
Severoiztochen	20 810	17 155	16 867	19 531	19 57
Yugoiztochen	20 848	17 341	19 661	28 842	18 55
Yugozapadna i Yuzhna tsentralna	25 232	21 391	16 866	30 123	15 37
Bulgaria					
Yugozapaden	19 106	15 062	17 275	24 630	18 84
Yuzhen tsentralen	25 797	21 816	16 694	31 185	15 12
Statistical zones & statistical regions	Potatoes	Cabbage	Onion	Strawberries	15 12
Statistical zones & statistical regions	Potatoes Open area	Cabbage a, harvested (ha)	Onion	Strawberries	15 12
Statistical zones & statistical regions Bulgaria	Potatoes Open area 7 019	Cabbage a, harvested (ha) 1 847	Onion 3 016	Strawberries 691	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria	Potatoes <i>Open area</i> 7 019 1 035	Cabbage a, harvested (ha) 1 847 611	Onion 3 016 2 106	Strawberries 691 319	15 12
Statistical zones & statistical regions Bulgaria	Potatoes Open area 7 019	Cabbage a, harvested (ha) 1 847 611 74	Onion 3 016	Strawberries 691 319 67	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen	Potatoes <i>Open area</i> 7 019 1 035	Cabbage a, harvested (ha) 1 847 611	Onion 3 016 2 106	Strawberries 691 319	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden	Potatoes Open area 7 019 1 035 516	Cabbage a, harvested (ha) 1 847 611 74	Onion 3 016 2 106 747	Strawberries 691 319 67	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen	Potatoes Open area 7 019 1 035 516 123	Cabbage a, harvested (ha) 1 847 611 74 168	Onion 3 016 2 106 747 131	691 319 67 129	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen	Potatoes Open area 7 019 1 035 516 123 96 300	Cabbage 1 847 611 74 168 134 235	3 016 2 106 747 131 68 1160	691 319 67 129 103 20	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna	Potatoes Open area 7 019 1 035 516 123 96	Cabbage a, harvested (ha) 1 847 611 74 168 134	Onion 3 016 2 106 747 131 68	691 319 67 129 103	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria	Potatoes Open area 7 019 1 035 516 123 96 300	Cabbage 1 847 611 74 168 134 235	3 016 2 106 747 131 68 1160	691 319 67 129 103 20	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna	Potatoes Open area 7 019 1 035 516 123 96 300 5 984	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236	3 016 2 106 747 131 68 1160 910	691 319 67 129 103 20 372	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915	3 016 2 106 747 131 68 1160 910 165 745	691 319 67 129 103 20 372 45	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956	691 319 67 129 103 20 372 45 327	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area	Onion 3 016 2 106 747 131 68 1160 910 165 745	691 319 67 129 103 20 372 45 327	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria Severna i Severozapaden	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 29 156 11 384	691 319 67 129 103 20 372 45 327 5 206 1 993 510	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 29 156	691 319 67 129 103 20 372 45 327 5 206 1 993	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria Severna i Severozapaden Severozapaden Severotsentralen Severoiztochen	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488	Cabbage a, harvested (ha) 1847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 29 156 11 384	691 319 67 129 103 20 372 45 327 5 206 1 993 510	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severna i Severozapaden Severen tsentralen	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113	Cabbage a, harvested (ha) 1847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 11 384 2 666	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severotsentralen Severoiztochen Yugoiztochen Yugoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488	Cabbage a, harvested (ha) 1847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 11 384 2 666 960	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severotsentralen Severoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878	3 016 2 106 747 131 68 1160 910 165 745 1 (tonnes) 38 956 29 156 11 384 2 666 960 14 146	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severotsentralen Severoiztochen Yugoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435 73 367	Cabbage a, harvested (ha) 1847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878 30 537 7 535	Onion 3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 29 156 11 384 2 666 960 14 146 9 800 1303	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119 3 213 284	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Fulgaria Severna i Yugoiztochna Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severotsentralen Severoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435 73 367 27 068	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878 30 537 7 535 23 002	3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 11 384 2 666 960 14 146 9 800 1303 8 497	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119 3 213	15 12
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Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Yugoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severoiztochen Yugozapaden Yuzhen tsentralen	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435 73 367 27 068 Average yield 16 973 18 185	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878 30 537 7 535 23 002 s, open area (kg/h 24 344 23 609	3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 29 156 11 384 2 666 960 14 146 9 800 1303 8 497 a) 12 916 13 844	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119 3 213 284 2 929 5 877 5 649	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severna i Yugoiztochna Bulgaria	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435 73 367 27 068 Average yield 16 973 18 185 19 205	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878 30 537 7 535 23 002 s, open area (kg/h 24 344 23 609 20 459	3 016 2 106 747 131 68 1160 910 165 745 4 (tonnes) 38 956 29 156 11 384 2 666 960 14 146 9 800 1303 8 497 a) 12 916 13 844 15 240	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119 3 213 284 2 929 5 649 7 433	15 12
Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severna i Sever	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435 73 367 27 068 Average yield 16 973 18 185 19 205 17 179	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878 30 537 7 535 23 002 s, open area (kg/h 24 344 23 609 20 459 27 435	3 016 2 106 747 131 68 1160 910 165 745 (tonnes) 38 956 29 156 11 384 2 666 960 14 146 9 800 1303 8 497 a) 12 916 13 844 15 240 20 351	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119 3 213 284 2 929 5 877 5 649 7 433 4 535	15 12
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Statistical zones & statistical regions Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severen tsentralen Severoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Yugoiztochen Yugoiztochen Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapadna i Yuzhna tsentralna Bulgaria Yugozapaden Yuzhen tsentralen Bulgaria Severna i Yugoiztochna Bulgaria Severna i Severna i Severna i Yugoiztochna Bulgaria Severna i Yugoiztochna Bulgaria Severna i Yugoiztochna Bulgaria Severna i Yugoiztochna Bulgaria Severozapaden Severoiztochen Yugoiztochen	Potatoes Open area 7 019 1 035 516 123 96 300 5 984 4 171 1 813 Production, open an 119 239 18 804 9 910 2 113 1 488 5 293 100 435 73 367 27 068 Average yield 16 973 18 185 19 205 17 179 15 500 17 699	Cabbage a, harvested (ha) 1 847 611 74 168 134 235 1236 321 915 d greenhouse area 44 963 14 426 1 515 4 609 2 424 5 878 30 537 7 535 23 002 ds, open area (kg/h 24 344 23 609 20 459 27 435 18 090 25 013	3 016 2 106 747 131 68 1160 910 165 745 (tonnes) 38 956 29 156 11 384 2 666 960 14 146 9 800 1303 8 497 a) 12 916 13 844 15 240 20 351	691 319 67 129 103 20 372 45 327 5 206 1 993 510 726 638 119 3 213 284 2 929 5 877 5 649 7 433 4 535 5 864 5 750	15 12
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^{*} The production of gherkins and melons – open area.

Table 4. Total production (open & greenhouse area)

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Type of vegetable	Harvest 2022 (tonnes)	Harvest 2023 (tonnes)	Change 2023/2022 %	Type of vegetable	Harvest 2022 (kg/ha)	Harvest 2023 (kg/ha)	Change 2023/2022 %
Tomatoes	126 455	115 650	-9%	Tomatoes	27 886	23 440	-16%
Pepper (hot incl.)	46 793	52 005	11%	Pepper (hot incl.)	19 112	19 512	2%
	70 (10t met.) 40 773 32 003 1170	Eggplants	23 347	28 308	21%		
Cucumbers and gherkins*	52 267	52 514	0%	Cucumbers and gherkins	19 768	17 668	-11%
Potatoes	172 209	119 239	-31%	Watermelons and melons	18 727	16 843	-10%
				Potatoes	18 800	16 973	-10%
Cabbage	39 590	44 963	14%	Cabbage	22 295	24 344	9%
Onion*	27 459	38 956	42%	Onion	11 846	12 916	9%
Strawberries	5 129	5 206	2%	Strawberries	6 553	5 877	-10%

Table 5. Average yields, open area

Source: Ministry of Agriculture and Food, Agrostatistics Department - Vegetable production survey

97% of the production of fresh vegetables, strawberries, potatoes and mushrooms were distributed on the market. The remaining quantities are in stock or were reported as farm losses.

Figure 3. Production distribution – harvest 2023 (%)



Source: Ministry of Agriculture and Food, Agrostatistics Department – Vegetable production survey – harvest 2023

Methodological notes

The Vegetable Production Survey – harvest 2023 was conducted by the Agrostatistics Department at the Ministry of Agriculture and Food in accordance with the requirements of Regulation (EC) No. 543/2009 of the European Parliament and of the Council and Commission Delegated Regulation (EU) 2015/1557 concerning crop statistics. National characteristics and additional information needs were accounted for.

The survey was conducted in the period from 01.11.2023 to 23.02.2024.

The survey purpose: To provide statistical information on the production of fresh vegetables grown outdoors and in greenhouses. To establish the harvested area by types of vegetables, production and average yields - harvest 2023.

Survey method: The observed farms were determined by random stratified sampling. A threshold was applied above which all units were exhaustively observed. Method of conduct: The survey was organized by the Agrostatistics Department at the Ministry of Agriculture and Food, and implemented by experts in agrostatistics from the Regional Directorates Agriculture and employees in the municipal agricultural services.

 $\label{eq:Geographic scope} \textit{--} the survey covers the territory of the entire country.$

 ${\it Reference\ period-harvest\ 2023.}$

Questionnaire – includes administrative information for holding identification and questions on open and greenhouse area under vegetables, production from open area and from greenhouses, vegetable sales, fertilized and treated area.

Confidentiality – in order to ensure the confidentiality of individual data, some indicators were published in aggregated positions or replaced by "c" (confidential data). These are the cases when:

- There are less than 3 holdings in the considered category;
- One of the holdings in the considered category covers more than 85% of the activity in this category.

The kohlrabi data for 2023 harvest was confidential and not included in the results.

Accessibility of statistical information - the results of the surveys conducted by the Agrostatistics Department are published on the Ministry of Agriculture and Food website.

The information is provided to Eurostat and published in the NSI statistical yearbook and statistical directory.

The statistical regions cited in the publication are in accordance with the requirements of the general classification of territorial units for statistical purposes applied in the European Union (NUTS) according to Regulation (EU) № 31/2011. Statistical regions, on second (NUTS 2) level, are as follows:

Severozapaden: Vidin, Vratsa, Montana, Lovech, Pleven;

Severen tsentralen: Veliko Tarnovo, Gabrovo, Ruse, Silistra, Razgrad;

Severoiztochen: Varna, Dobrich, Targovishte, Shoumen;

Yugoiztochen: Burgas, Sliven, Stara Zagora, Yambol;

Yugozapaden: Blagoevgrad, Kyustendil, Pernik, Sofia-cap., Sofia region; Yuzhen tsentralen: Kardzhali, Pazardzhik, Plovdiv, Smolyan, Haskovo.

The publication was editorially completed on 15.05.2024

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^{*} For the harvest 2023, the production of gherkins and for the harvest 2022 of onion – open area.