

Cotton Report for the 2022/2023 Season

PRODUCTION

- Regional Cotton Area & Production

Region/Province	Area (decare)	Production (ton)
ÇUKUROVA	882.498	162.383
Adana	302.836	53.456
Mersin	44.694	6.691
Hatay	459.510	88.443
Kahramanmaraş	70.858	12.944
Osmaniye	4.600	849
SOUTHEAST OF ANOTOLIA	3.588.383	619.752
Diyarbakır	829.151	151.104
Şanlıurfa	2.424.783	408.055
Gaziantep	59.074	9.940
Adıyaman	81.888	14.158
Mardin	101.977	20.051
Siirt	11.080	2.424
Batman	13.085	2.289
Şırnak	62.200	10.874
Kilis	4.120	714
Iğdır	1.000	139
Malatya	25	4
AEGEAN	1.213.389	227.347
Aydın	574.129	104.948
İzmir	332.647	63.952
Denizli	123.595	22.916
Manisa	174.175	34.016
Muğla	7.140	1.249
Balıkesir	1.660	259
Bursa	43	7
ANTALYA	47.343	8.018
TOTAL	5.731.613	1.017.500

- **Number of Cotton Farmers (Male & Female)**

There are 64.332 cotton farmers who are registered to our Ministry of Farmer Registry System in 2022.

- **Impact of Factors on Yields (Pests, Diseases, Climate)**

These are factors that occur spontaneously and producer intervention is not possible. Cotton is quite sensitive to low temperatures in all its developmental stages. Because of its long vegetation (planting-harvest) period, it needs at least a 180 or 200-day frost-free period. In addition, it requires a 4 or 5-month uniform temperature in its growing season. It shows the best development between 23-32 °C temperatures without being affected by stress conditions. Sunlight is very essential in terms of cotton's predevelopment and flowering. Insufficient sunlight puts off boll development and maturation. Regions' amount of rainfall and its distribution according to months are quite important. If cotton farming is to be carried out under rainy conditions, the annual precipitation must be at least over 500 mm in that region and approximately 200 mm of this precipitation must be distributed regularly throughout the cotton development period. Excessive precipitation immediately after cotton planting may affect negatively seedling emergence by forming a duff layer depending on soil structure and soil organic matter. Sudden rainfall and excessive drought changes may bring about comb and loss of boll. Wind also has a drying effect on soil and plants. Especially during the period when the bolls are opening, wind with rainfall may cause shedding of cotton, being dirty, and loss of yield and quality.

- **Major Insect Pests**

Aphis gossypii

Empoasca spp.

Thrips tabaci

Tetranychus urticae

Bemisia tabaci

Heliothis armigera,

Spodoptera exiqua

- **Major Diseases**

Verticillium dahlia Kleb

Rhizoctonia solani

- Popular Cotton Varieties/Hybrids (Past 2-3 Years)

- Recent Technology Introductions (3-4 Years)

- **Farming Mobile Apps List & Descriptions**

Tarım Cebimde : Tarım Cebimde is an application developed under the framework of the Vision of Digitalization in Agriculture.

With the application of Tarım Cebimde you can reach easily to all services for the Ministry of Agriculture and Forestry's farmer and farmer candidates. By using this application, you can get information on Strategic and Supported Products for the areas declared to Farmer Registry System and monitor the activities of livestock, get information about greenhouse

units. In addition, you can have access to all services ‘shortcuts and be informed about our Ministry's current notifications first. Our farmers who are engaged in animal production can make the Birth Animal Notification, Dead Animal Notification, and Dropped Earring Notifications through the Tarım Cebimde application.

ALO GIDA: It is the application of T.R. Ministry of Agriculture and Forestry of ALO 174 GIDA. All kinds of notices, complaints, information, etc. regarding food safety, applications can be made via this mobile application.

Plant protection products: With the application "Plant Protection Products Database Program"; it can be possible to quickly access many subjects such as license, usage information, active matter, harmful organisms, plant and plant products and this database can be accessible easily in the environment that has no internet connection (offline).

- **Official Cotton Data Websites**

[T.R. Ministry of Agriculture and Forestry \(tarimorman.gov.tr\)](http://tarimorman.gov.tr)

[Turkish Statistical Institute \(TÜİK\) \(tuik.gov.tr\)](http://tuik.gov.tr)

- Any new government policy on cotton lint production or trade
- Definition, production, consumption, and trade figures of any extra-long or long staple variety of cotton produced

- **Total government support provided to the cotton sector (in local currency)**

Cotton area registered to Farmer Registration System: 561.752,00 ha

Premium paid to farmers for seed cotton: 1,60 TL/kg

Number of farmers who benefit from Deficiency Payments: 46.321

Total amount paid for Seed Cotton Deficiency Payment (premium): **4.105.258.356,00 TL**

Diesel Support (per ha): 2.500,00 TL/ha (250 TL/da)

Diesel Support (Total): **1.314.033.000,00 TL**

Fertilizer Support (per ha): 210 TL/ha (21 TL/Da)

Fertilizer Support (Total): **110.372.000,00 TL**

Payments for Organic Farming Support for Cotton:

1. Individual : 312.130,00 TL

Total Area : 797 ha

2. Producers Groups : 128.813,00 TL

Total Area : 523 ha

- **A brief description of the cotton support measures implemented by the government, such as crop insurance, MSP, input subsidies, etc.**

Diesel and fertilizer support is provided to farmers producing cotton registered in the Farmer Registration System.

1.60 TL/kg premium support is given to producers who produce seed cotton using certified cotton seeds registered in the Farmer Registration system.

Organic farming activities in our country are carried out within the framework of the "Organic Farming Law No. 5262" and the "Regulation on the Principles and Implementation of Organic Farming" issued pursuant to this law.

Presidential Decree No. 6243 and dated 19/10/2022 regarding Agricultural Supports to be provided in 2022 and Certified Seed Use Support to be implemented in 2023, and Concerning the Payment of Support for Plant Production (2022), which entered into force after being published in the Official Gazette No. 32018 and dated 19/11/2022. (No. 37) is carried out within the scope of the Communiqué, and producers producing organic cotton in the 2022 production year are supported at 40 TL/da in individual certification and 20 TL/da in group certification from the 2nd product category.

- **Local average price for per kg lint or seed cotton (last three crop years)**

MARKET YEAR	Fiber Cotton (\$/kg)	Fiber Cotton (TL/kg)
2020/2021	1,90	15,06
2021/2022	2,98	39,70
2022/2023	2,12	41,47

Source: İzmir Commodity Exchange

- **Major marketing strategies that cotton farmers use to sell their cotton (specify whether it is seed cotton or lint)**

The cotton producer sells the cotton as seed cotton to merchants and ginning enterprises. Our Ministry has not announced any cotton purchases or prices up to the present. Unions and cooperatives such as Çukobirlik, Tariş, Antbirlik, etc. announce prices and purchase some amount of seed cotton.

- **How is local cotton price determined**

Cotton prices are determined on cotton exchange markets according to supply and demand under free market conditions.

- Main issues affecting cotton processing in the country
- **Name and contact information (email or phone number) of the person responsible for cotton statistics**

Full name	Title	Email	Phone number
Dilek SARI	Agricultural Engineer	dilek.sari@tarimorman.gov.tr	(0312) 258 82 42

Year (ex. 2022-23)	
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Name of the Province/State etc.	Area	Production
	Hectares	
CUKUROVA		
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TURKEY (Total)	5,731,613	1,017,500

	Male	Female
Number of farmers		

Number of Research Staff	Male	Female
Public Institute		
Private organization		

Number of Extension Staff	Male	Female
Public Institute		
Private organization		

	% Zero-till	% Minimum Tillage	% conventional
Tillage methods		2	98

	% Burnt	% Firewood	% Plowed back	% Stacked/Wasted
Stalks		18	79	3

	No. of irrigations	% Canal water	% Well water	% Pond/River
Source of Irrigation	6	69	27	4

	% Flood	% Furrow	% Sprinkler	% Drip
Methods of irrigation	4	64	19	13

	% Irrigated	% Rainfed
Cotton Area	99	1

	Number of Roller Gin Mills	Number of of Saw Gin Mills	%Roller ginned cotton	%Saw ginned cotton
Ginning methods			95	5

	% Hand	% Machine	% Herbicide
Weeding	10	15	75

	Hand	Machine
Harvesting	7	93

COST OF CULTIVATION 2021-22	The data in this table is that of 2021-22. Please update this table with revised data for the latest year 2022-23			
INPUTS	Quantity used (Kg/Ha)	Cost per unit (Kg)	Number of times applied per season	Total cost per hectare (US\$)
Non-GM seeds	20		1	20
Biotech/GM seeds				0
Urea				
NPK+Other	650		3	280
Insecticides			4	180
Herbicides			1	60
Fungicides / antibiotics etc.,			1	12
Growth regulators			2	40
Defoliant			1	12
Manure	0		0	0
Others (Pheromone traps)	0		0	0
MANPOWER / LABOUR	No. of persons per/ha	Wages	Number of times per season	Total cost per hectare
Land preparation /tillage etc.,	3	6	1	18
Sowing	6	6	1	36
Fertiliser / manure application	3	6	1	18
Irrigation	3	6	1	18
Thinning	18	6	1	108
Weeding	8	6	1	50
Hoeing	15	6	2	180
Pesticide application	3	6	4	72
Defoliator application	3	6	1	18
Picking / harvesting	2	6	3	36
Stalk cutting & removal	2	6	1	10
Transportation /unloading etc.,	2	6	1	12
Ginning cost per 100 Kg seed-cotton	3.68	160	1	160
Others (please specify)		0	0	0
INFRASTRUCTURE / MACHINERY etc	Rent cost per day	Cost / operation	Number of times per season	Total cost per hectare
Tractors		12	15	180
Implements & tools		16	10	160
Electric / Diesel pumps etc.,		26	5	130
Electricity / Diesel etc.,		32	5	160
Harvesting machines		36	1	36
Hoeing / Tillage machinery etc.,		18	2	36
Bullocks /Buffaloes		14	1	14
Land rent /Rent		54	1	54
MARKET VALUE	Yield Kg/per hectare	Market value per 1.0 Kg		Value/Ha
Seed-cotton	4348	1.213	5274.1	5274.1
Lint (fibre)	1827	2.45	4476.2	4476.2
Seed	2521	0.38	958	958
Ginning % (output)	42			
Cost of cultivation (-ginning)				1896
Net Returns on seedcotton				3378.1

VARIETIES	Please update this table with revised % Area and any new varieties					
Name of the Variety	Release Year	% Area	Ginning	length UHML mm	strength g/te	Mic
			%			
Varieties in Aegean						
Gloria	2010	5	40.6	30.2	35.2	4.2
Lima	2018	5	44.3	31	33.7	4.9
May 455	2017	75	46	31	35	4.8
May 498	2022	5	44	30	31	4.9
Lidya	2012	5	42.8	28.5	31.7	5.1
Claudia	2010	5	44	31.4	34.8	4.5
Varieties in Cukurova						
Laser	2020		45-47	31-32	34-36	4,6-4,8
BA-1010	2020		43-44	29-30	30-33	4,5-4,7
Bonus	2021		46-48	31-32	34-36	4,5-4,8
Armada	2021		43-45	30-31	35-38	4,6-4,9
DP-332	2011		44-46	28-29	31-34	4,1-4,7
Orion	2022		45.3	29.7	32.2	5.1
Fiona	2018		44-46	30-32	33-35	4,0-4,5
558	2022		42-44	31.6	35.7	3,8-4,9
505	2017		42-43	29-30	28-30	4,7-4,9
Karizma			42-44	28,5-30	30-32	4,4-4,9
DP-332						
Lima			44-46	29-32	32-36	4,3-4,8
BA-119						
SG-125						
Flash						
Gloria			41-43	30-31	33-35	3,9-4,2
Varieties in GAP						
Candiya			43-45	30-31	33-35	4,0-4,3
Fiona			43-46	30-32	33-35	4,0-4,5
May 455			44-46	30-31	32-35	4,4-4,8
Lazer			43-46	31-32	32-36	4,6-4,8
* Please add rows if needed						

COST OF CULTIVATION	2022-23			
	Quantity used (Kg/Ha)	Cost per unit (Kg)	Number of times applied per season	Total cost per hectare (US\$)
INPUTS				
Non-GM seeds				
Biotech/GM seeds				
Urea				
NPK+Other				
Insecticides				
Herbicides				
Fungicides / antibiotics etc.,				
Growth regulators				
Defoliant				
Manure				
Others (Pheromone traps)				
MANPOWER / LABOUR	No. of persons per/ha	Wages/day	Number of times per season	Total cost per hectare
Land preparation /tillage etc.,				
Sowing				
Fertiliser / manure application				
Irrigation				
Thinning				
Weeding				
Hoeing				
Pesticide application				
Defoliator application				
Picking / harvesting				
Stalk cutting & removal				
Transportation /unloading etc.,				
Ginning cost per 100 Kg seed-cotton				
Others (please specify)				
INFRASTRUCTURE / MACHINERY etc.	Rent cost per day	Cost / operation	Number of times per season	Total cost per hectare
Tractors				
Implements & tools				
Electric / Diesel pumps etc.,				
Electricity / Diesel etc.,				
Harvesting machines				
Hoeing / Tillage machinery etc.,				
Bullocks /Buffaloes				
Land rent /Rent				
MARKET VALUE	Yield Kg/per hectare	Market value per 1.0 Kg		Value/Ha
Seed-cotton				
Lint (fibre)				
Seed				
Ginning % (output)				
Cost of cultivation (-ginning)				
Net Returns on seedcotton				