



An Overview of Cactus Pear (*Opuntia ficus Mill.*) Production and Consumption in Turkey

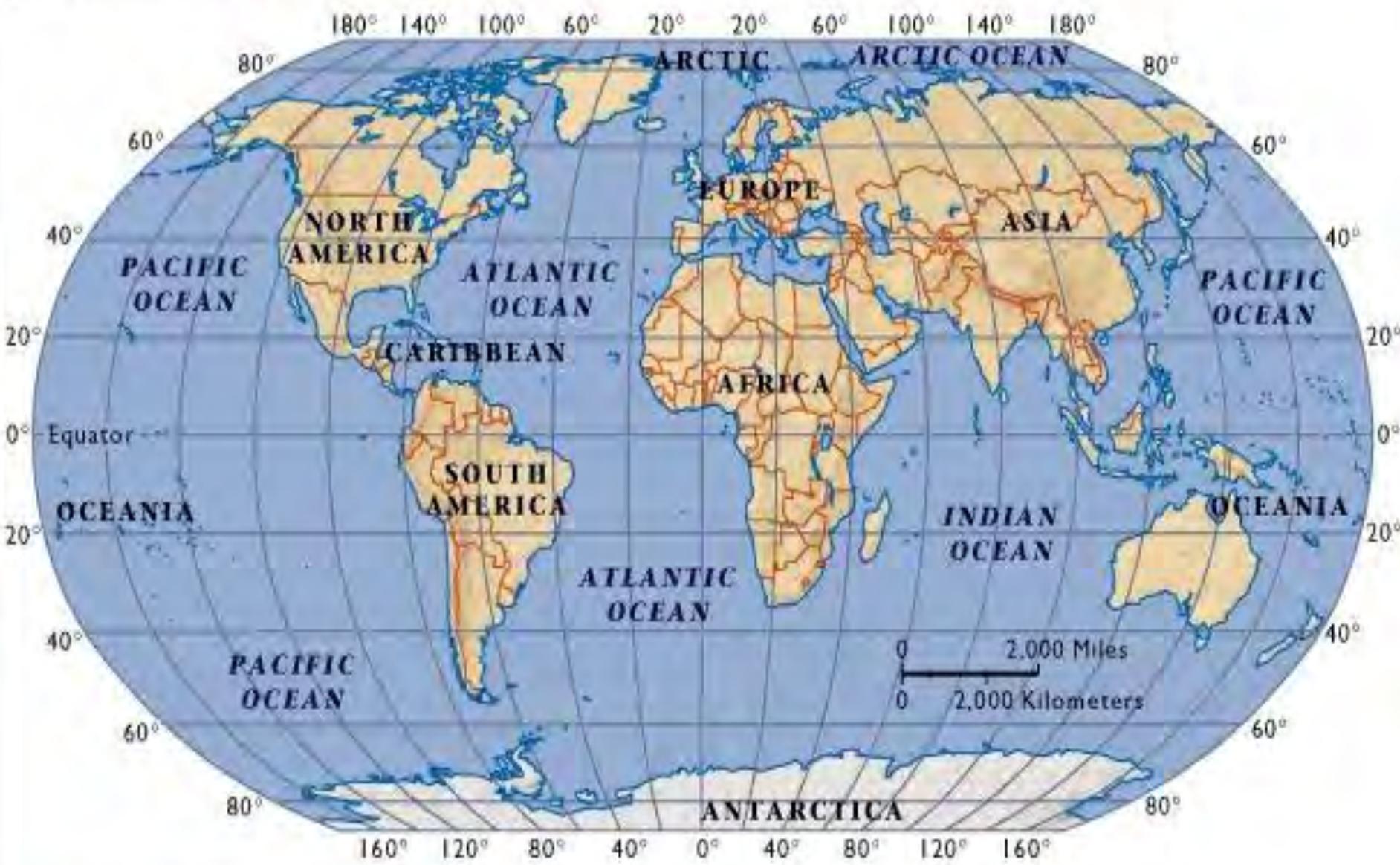
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17-22 October 2010, Agadir- Morocco**

The World



Cactus pear (*Opuntia ficus-indica* L. Mill.) is widely grown plant at Mediterranean region of Turkey



The aim of propagation of cactus pear in Turkey

- 1. To eat
- 2. As a fence
- 3. Erosion control









22.07.2003 Summer in
Turkey



15.08.2007 Summer



**It is generally
grown as border
plant of the
fields and fence
to protect
horticultural
plants from
animals**



Erosion control and ornamentally





SOME TRAITS OF PLANT

- **Plant Traits: Plant shape is Elongate or round. Generally habitus is upright types. Cladodes shape generally ovate some of them round. There are spine and some of them white and 2 cm long. Some is spineless and there are only glochides on them.**

Generally plants are upright types





A view of spineless and with spines plant pads at the growing area.





SPINY

SPINELESS











FRUIT TRAITS

- **Fruit shape is Ovoid or Oblong. They are 80-150 g weight. That means they are changes small and medium size.**
- **Peel color is between Orange or Greenish, Pulp color is orange, yellow orange. Some other fruit traits were given tables below.**















Fruit and peel weight of different local cactus pear fruits samples

SAMPLING LOCATIONS	Fruit Weight (g)	Edible Part Of Fruit weight (g)	Peel weight (g)	Edible Ratio of Fruit (%)
Mersin	140.814 a	85.572 a	55.242 a	60.77 a
Tarsus	99.508 b	45.557 c	53.951 a	45.78 c
Ceyhan	107.757 b	57.540 b	50.217 a	53.40 b
Karaisali	81.042 c	43.842 c	37.200 b	54.10 b
Average	107.280	58.128	49.152	54.18

Values followed by the same letter in each column are not significantly different Fisher LSD ($P < 0.05$)

$$\text{Edible Ratio of Fruit (\%)} = \frac{\text{Weight of Edible Part of Fruit}}{\text{Full Weight of Fruit}} \times 100$$





81.907 g



193.129 g



Fruit size of different local cactus pear fruits samples

SAMPLING LOCATIONS	Fruit Length (mm)	Fruit Diameter (mm)	Ratio of Fruit (Length/Diameter)
Mersin	79.35 a	55.68 a	1.43 a
Tarsus	69.97 a	51.33 b	1.36 a
Ceyhan	76.86 a	52.18 b	1.47 a
Karaisali	71.52 a	48.09 c	1.49 a
Average	74.43	51.82	1.44

Values followed by the same letter in each column are not significantly different Fisher LSD ($P \leq 0.05$)



Soluble solids and seed number of different local cactus pear fruits

SAMPLING LOCATIONS	Soluble solids (%)	Total seed Number	Abortive seed number and rate (%)*	Fertilized seed number and rate (%)*
Mersin	11.0	262	120 (48.5)	142 (54.2)
Tarsus	11.2	184	138 (75.0)	46 (25.0)
Ceyhan	10.4	232	145 (62.5)	87 (37.5)
Karaisali	10.4	261	166 (63.6)	95 (36.4)
Average	10.8	235	142 (60.4)	93 (39.6)

*: The rate were written in parenthesis.





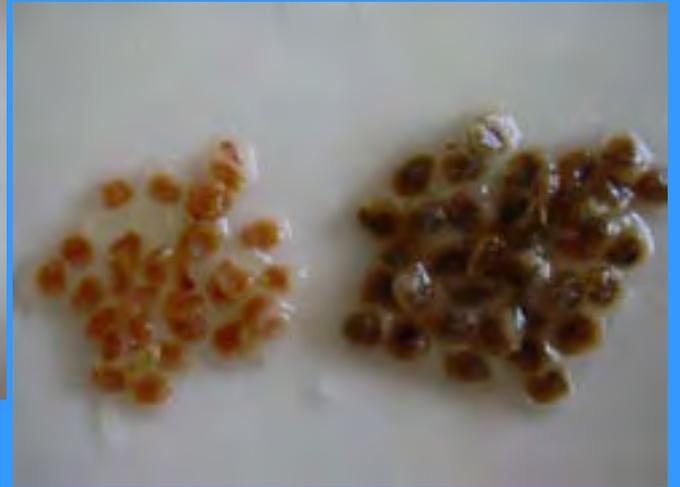
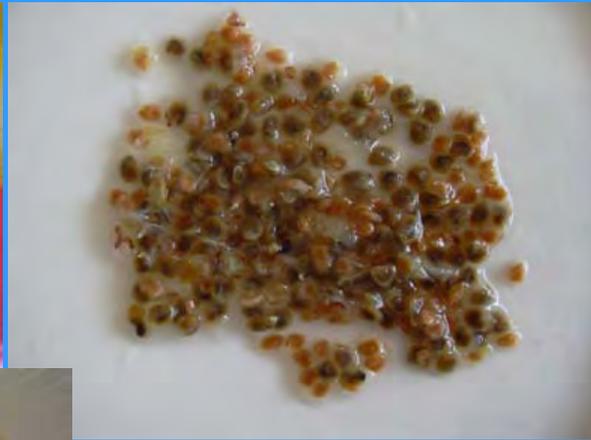














RESULT: *We need to make research with different cultivars in Turkey.*

- We need to colloboration with the other grower countries.





**Thank you very much for
your attention**

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