

## Results of Erger Applications in Turkey:

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## ERGER APPLICATIONS: MANİSA Province



6% Erger + 8% Activ Erger applied more or less 40 days before bud break

1<sup>st</sup> Location

|           |            |
|-----------|------------|
| Altitude  | 214m.      |
| Cultivar: | 0900Ziraat |
| Rootstock | Giesela 6  |

2<sup>nd</sup> Location

|           |             |
|-----------|-------------|
| Altitude  | 160 m.      |
| Cultivar: | 0900 Ziraat |
| Rootstock | Mahalep     |



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### 1st Location 08.04



ERGER SPRAY



Untreated



### 1st Location 06.05



ERGER



Untreated

### 1st Location 25.05



ERGER



Untreated



### Effects of Erger application on the flowering of 0900 Ziraat cherry cultivar at the (1st Location)



| Applications | Amount of Flowering (Cluster) | Amount of Nonflowering (Cluster) | Flowering rate (%) | Average rate of flowering (%) |
|--------------|-------------------------------|----------------------------------|--------------------|-------------------------------|
| Erger        | 10.0                          | 0                                | 100                | 100                           |
| Erger        | 11.0                          | 0                                | 100                |                               |
| Erger        | 10.0                          | 0                                | 100                |                               |
| Erger        | 13.3                          | 0                                | 100                |                               |
| Erger        | 13.3                          | 0                                | 100                |                               |
| Untreated    | 5.0                           | 5.3                              | 48.5               | 53                            |
| Untreated    | 4.6                           | 5                                | 47.9               |                               |
| Untreated    | 8.0                           | 3                                | 72.7               |                               |
| Untreated    | 5.3                           | 3                                | 63.9               |                               |
| Untreated    | 3.5                           | 7.5                              | 31.8               |                               |

### Pomological analysis of the fruits

| Harvest Date: 26 May<br>Analysis Date: 29 May |                  |                 |                  |                   |                   |                |                        |
|-----------------------------------------------|------------------|-----------------|------------------|-------------------|-------------------|----------------|------------------------|
| Appl.                                         | Fruit weight (g) | Seed weight (g) | Fruit width (mm) | Fruit length (mm) | Fruit height (mm) | Brix value (%) | Fruit stem length (mm) |
| Erger                                         | <b>7,892</b>     | <b>0.37</b>     | <b>20.62</b>     | <b>24.91</b>      | <b>22.94</b>      | <b>21</b>      | <b>44.59</b>           |
| Untreated                                     | 6,128            | 0.34            | 20.48            | 23.37             | 21.89             | 18             | 45.62                  |

+28%



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### Effects of Erger on yield (2<sup>nd</sup> location)

| Treatments  | Yield (kg/tree) | Average Yield (kg/tree) |
|-------------|-----------------|-------------------------|
| Erger-1     | 2.635           | 3.999                   |
| Erger-2     | 4.639           |                         |
| Erger-3     | 4.215           |                         |
| Erger-4     | 4.509           |                         |
| Untreated-1 | 1.412           | 2.191                   |
| Untreated-2 | 2.600           |                         |
| Untreated-3 | 3.212           |                         |
| Untreated-4 | 1.541           |                         |

+82%



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## 2nd Location – Variety 0900 ZiRAAT 14.03



ERGER SPRAY



Untreated

### 2nd Location - 30.03



ERGER



Untreated



### 2nd Location – 25.05



ERGER



Untreated



### Effects of Erger application on the flowering of 0900 Ziraat cherry cultivar at the (2nd Location)

| Applications | Amount of Flowering (Cluster) | Amount of Nonflowering (Cluster) | Flowering Rate (%) | Average Rate of Flowering (%) |
|--------------|-------------------------------|----------------------------------|--------------------|-------------------------------|
| Erger        | 12.7                          | 1.3                              | 90.7               | 93.6                          |
| Erger        | 12.7                          | 0.3                              | 97.7               |                               |
| Erger        | 13.0                          | 1.7                              | 88.4               |                               |
| Erger        | 10.0                          | 0.7                              | 93.5               |                               |
| Erger        | 12.0                          | 0.3                              | 97.6               |                               |
| Untreated    | 7.7                           | 5.3                              | 59.2               | 36.8                          |
| Untreated    | 3.3                           | 8.3                              | 28.4               |                               |
| Untreated    | 2.3                           | 8.7                              | 20.9               |                               |
| Untreated    | 3.7                           | 5.0                              | 42.5               |                               |
| Untreated    | 3.6                           | 7.3                              | 33.0               |                               |



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## Pomological analysis of the fruits

Harvest Date: 26 May

Analysis Date: 29 May

| Appl.        | Fruit weight (g) | Seed weight (g) | Fruit width (mm) | Fruit length (mm) | Fruit height (mm) | Brix value (%) | Fruit stem length (mm) |
|--------------|------------------|-----------------|------------------|-------------------|-------------------|----------------|------------------------|
| Untreated    | 6,858            | 0.43            | 20.13            | 24.02             | 22.17             | 18             | 48.49                  |
| <b>Erger</b> | <b>7,038</b>     | <b>0.40</b>     | <b>19.88</b>     | <b>25.21</b>      | <b>22.56</b>      | <b>20</b>      | <b>44.92</b>           |



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### Effects of Erger on yield (2<sup>nd</sup> location)

| Applications | Yield (kg/tree) | Average Yield (kg/tree) |
|--------------|-----------------|-------------------------|
| Erger-1      | 2.150           | 2.887                   |
| Erger-2      | 2.750           |                         |
| Erger-3      | 2.812           |                         |
| Erger-4      | 3.310           |                         |
| Erger-5      | 3.411           |                         |
| Untreated -1 | 0.800           | 1.082                   |
| Untreated -2 | 0.915           |                         |
| Untreated -3 | 1.210           |                         |
| Untreated -4 | 1.325           |                         |
| Untreated -5 | 1.291           |                         |

