

Supplementary Table 1. Typical cultivation practices in pistachio orchards in Markazi region of Iran

| Operation | Explanation |
|------------------------|---|
| Pruning | Usually done once a year in February. |
| Fertilizer application | Chemical P and K fertilizer as well as manure (if available) in Mid-January to Mid- February. Nitrogen fertilizer (mostly urea) is used twice a year as split, once along with the first irrigation after winter and once again between late April to June. |
| Pest management | Mostly Diazinon, three months prior to harvesting every 45 days. |
| Irrigation | If enough water is available, irrigation with 45 days intervals is applied. |
| Soil cultivation | Two or three times a year between February and April. |
| Weed control | A combination of mechanical control (soil cultivation) and chemical control in May-June |
| Harvesting | Harvesting in 95% of the orchards is done manually. In 5% of the orchards harvesting is mechanized using a shaker machine |