

## Template for Evidence(s) UI GreenMetric Questionnaire

University : Gebze Technical University  
Country : Turkiye  
Web Address : www.gtu.edu.tr

### [3] Waste (WS)

#### [3.3] Total volume organic waste produced

Type of organic waste	Total Produced (ton)
- food waste	22.32
- pine cones, grass bales	23.10
-total	45.42

1





Compost machine in GTU Campus for composting waste from cafeteria and biomass (tree leaves, dried tree branches, dried weeds)

2







**TUTANAK**

Gebze Teknik Üniversitesi'nin 22.01.2024 tarih ve 2-2024/8801-13676 sayılı evrakla istihdamı; MÜDÜRLÜĞÜMÜZCE 24.01.2024 tarihinde "Fatah Çamı - Kozalağı Verim Tahmin Komisyonu" oluşturulmuştur. Komisyonumuzca (kg) veri ve etiminde verilen bilgiler ve sahada yapılmış keşif sonuçlarına göre tayin edilmiş, 3 bölgeye A1 parselindeki 39 Fatah çamı ağacının üretilmiş olduğu bölgede toplam ağaç sayısının 6119 olduğu tespit edilmiştir. Komisyonumuzca yerinde yapılan keşifler sonucunda tüm bölgelerden elde edilecek Fatah Çamı Kozalağının 28.475kg (yaklaşık) tahmin edilmektedir. Ayrıca (kg) Fatah Çamı Kozalağının serbest piyasada "Ortalama 15TL" den satışta; tespit edilmiştir.

AĞAÇ TİPİ	MEVSE	YAS	AĞAÇ SAYISI(AĞAÇ)	KOZALAĞ VERİMİ(kg/AĞAÇ)	TOPLAM VERİM(kg)
Fatah Çamı	1.BÖLGE(F1-F2)	29-30	328	10	3280
Fatah Çamı	2.BÖLGE(F3...F30)	55-60	4764	2	9528
Fatah Çamı	3.BÖLGE(F31-F33)	29-30	424	10	4240
Fatah Çamı	2.BÖLGE(F34-F37)	55-60	153	25	3825
Fatah Çamı	3.BÖLGE(F32-F33-F34)	29-30	305	3	915
Fatah Çamı	3.BÖLGE(A1)	55-60	55	25	1375
Fatah Çamı	4.BÖLGE(F35-F36-F37)	15-15	184	3	552
			6119		23475

Bu bilgiler çerçevesinde Gebze Teknik Üniversitesi Kampüsünde bulunan Çam Fatah ağaçlarından 2024 yılında; 23475kg x 15TL/Kg = 352.131,00TL (Üçyüzlükbinbirüçyüzmbeş) gelir elde edileceği tahmin edilmiştir.

İşbu tutanak 2 nüsha olarak hazırlanmış olup komisyonumuzca imza altına alınmıştır. 29.01.2024

**FATAH ÇAMI KOZALAĞI VERİM TAHMİN KOMİSYONU**

KOMİSYON BAŞKANI: ÜYE: ÜYE:

Ünal BALTA Ziraat Müh. Tamer DAĞTIRAN Ziraat Müh. Murat HAN Ziraat Müh.

Photographs of pine cones collected from the stone pine trees on campus and official records of related data



3



Organic waste from all campus (offices, faculty, cafeteria) collected by Kocaeli Municipality every week

4



Gathering sprawling and withering grasses by transforming them into bales with the assistance of a tractor

**Total Organic Waste Produced on The GTU Campus (Gebze Technical University, Türkiye)**

### Description:

The campus of Gebze Technical University generates approximately 45.42 tons of organic waste on an annual basis. Of the total organic waste generated, 22.32 tons are food waste, 21.20 tons are pine cones, and 1.9 tons are grass bales.

- 1) Our University have a compost machine for processing organic waste. The composting machine is operational and has started production for testing purposes. 50 Kg of compost is produced from litters, animal feces and tree branches, for enrichment of the compost different ingredients were also added to the compost during production. The produced compost was used in greenhouses of the Campus for research purposes. Rest of the compost produced is used in green areas within the campus as a soil enriching agent for vegetation. Organic waste is produced in the canteens and cafes on our campus, these organic wastes will also be utilized for compost processing in near future.
- 2) A private company collects approximately 23 tons of pine cones per season from a total of 6119 pine trees in 7 different regions on the campus. Approximately 1.8 tons of pine nuts are obtained from these 23 tons of pine cones. Therefore, approximately 21.20 tons of pine cone waste is generated annually. These collected pine cones are used in the most efficient way by cooperating with the Gebze Organized Industrial Zone and going through various stages. The pistachio inside the pine cone is separated and used as food. The outer shell of the pine cone is also separated and burned to be used as energy. This application is an important example of recycling organic waste on the campus. Thus, all pine cones are used efficiently and a sustainable contribution is made to nature. The table seen above is the official letter from the Seed and Certification Center located on the GTu campus.
- 3) Organic waste from all campuses (offices, faculty, cafeteria) is collected by Gebze (Kocaeli) Municipality every week. There are three cafeterias and canteens on campus. While two of them are in the form of large dining halls, one of them is a Kelebek Café. The amount of organic waste produced daily is as follows: Approximately 30 kg from each dining hall, 60 kg from 2 dining halls, 20 kg from the Butterfly Café, and 10 kg from canteens. As a result, approximately 90 kg of organic waste is generated daily at GTU. Since the campus has been in operation for 248 working days, the total amount of organic waste generated annually is approximately 22.32 tons.
- 4) Gathering sprawling and withering grasses by transforming them into bales with the assistance of a tractor: GTU aims to contribute to sustainable ecology and the collection of organic waste by utilizing a tractor to gather sprawling and elongated grasses at specific intervals, compacting them into bales. These grasses are used as various animal feed and fertilizer. The campus collects approximately 1.9 tons of bales per year.

### Additional evidence link:

[https://www.kompostsistem.com/tr/universiteler/gebze-teknik-universitesi.html#lightbox\[image\\_carousel\\_1\]/1](https://www.kompostsistem.com/tr/universiteler/gebze-teknik-universitesi.html#lightbox[image_carousel_1]/1)