

County of San Diego Organics Planning Narrative, 2020-2021

Under AB 876, State agency CalRecycle requires that counties or regional entities estimate the available processing capacity for organics material currently and plan for capacity 15 years in the future.

The County of San Diego conducted an organics capacity planning analysis between April and August of 2020. County staff and contractors conducted surveys of haulers, facilities, LEA's, and jurisdictions to determine an estimate of available capacity for organics processing in the San Diego region.

Current countywide landfill disposal of organic materials is 1.63 million tons annually. This includes food scraps, green materials, wood/lumber, compostable paper, and manure. The County anticipates disposal will be 1.74 million tons in 2035 based on population and demographic factors.

Currently *permitted** countywide organics processing capacity is 1,852,325 tons. Although it appears looking at permitted capacity the region has sufficient processing capacity, the *operational*** capacity is estimated to be only 1,184,854 tons. During the County's in-depth surveys, it was clear that although many facilities are permitted to process more material, there are a variety of reasons that facilities may not be operating at full capacity. Reasons include traffic flow restrictions, on-site storage restrictions, equipment restrictions, land constraints, or facilities may not be operational yet, though permitted. The County determined that there is 546,209 tons of *available capacity****. The available capacity is the capacity beyond what a facility is already processing.

Each jurisdiction is responsible to plan for and secure adequate processing capacity for their organic waste. The State also requires counties to work with local jurisdictions to conduct countywide capacity analyses for processing organic materials today and in 15 years as well as for our food donation infrastructure. Thus far, we've completed the organics processing analysis, which currently shows a deficit. We plan to start work on the food donation infrastructure analysis in 2021.

Based on facilities and programs that we're aware of and that are in the planning stages the total *available capacity* is anticipated to increase to 1.1M tons by 2035, however there would still remain an 664K ton shortfall in available capacity, which the primary shortfall is in processing food scraps and compostable papers.

* **Permitted Capacity:** (or loading): *The permitted annual capacity as provided in CalRecycle's SWIS database of facility permits. The throughput listed is typically higher than the facility's intended design or planned operational capacity. This throughput number may be high to provide the operator flexibility in producing various end-products. The high throughput also provides the operator flexibility in handling peak loading events.*

** **Operational Capacity:** *The actual capacity at which a facility can operate, as provided by the operator. There may be another permit or land use requirement that limits the operational capacity, such as number of daily truck trips allowed, or maximum volume of total materials onsite at any one time.*

*** **Available Capacity:** *Existing facilities currently in operation are already accepting and processing organic materials. They are operating at some fraction of their Operational Capacity. When considering how much capacity is available to divert and process materials*

currently being disposed, we looked at the facility's available capacity to accept those newly diverted materials. Some facilities indicated they are at capacity and do not have capacity available to accept new materials. A facility with an operational capacity of 50,000 tons per year, operating at 40%, would have 30,000 tons per year (60%) of available capacity

**AB 876 - Organics Management Infrastructure Planning
County of San Diego (Regionwide Summary)**

County of San Diego (Reporting period: 2018-2023)

| Description | Recalculated Input Value |
|---|--------------------------|
| Current Disposal Totals | |
| Total Disposal in Current Year (tons per year (TPY)) | 3,551,331 |
| Total Population in Current Year | 3,344,430 |
| Total Per Capita Disposal (pounds per person per day (PPD)) | 5.82 |
| Current Organics Disposal (tons) | 1,482,434 |
| Additional Current Organics Disposed (tons) | 143,583 |
| Total Current Organics Disposal (tons) | 1,626,017 |
| Total Current Wood and Lumber Disposal (tons) | 327,355 |
| <i>Other Wood Waste Disposal (treated and painted wood, included in above)</i> | 134,396 |
| Total Current Green Materials Disposal (tons) | 401,182 |
| Total Current Green Materials and Wood ADC Disposal (tons) | 86,762 |
| Total Current Organics Manure Disposal (tons) | 56,821 |
| Total Current Food Scraps Disposal (tons) | 552,218 |
| Total Current Compostable Paper Disposal (tons) | 201,679 |
| Current Commercial Edible Food Disposal (tons) | 85,000 |
| Projected Disposal Totals | |
| Projected Population in 15 Years | 3,573,968 |
| Future Per Capita Disposal (PPD) | 5.82 |
| Projected Total Disposal in 15 Years (tons) | 3,795,069 |
| Projected Organic Disposal | |
| Total Projected Disposal in 15 Years (tons) | 3,795,069 |
| Percentage of Disposed Organics in 15 Years (%) | 34.7% |
| Additional Organics that may be Disposed of in 15 Years (tons) | 153,438 |
| Total Projected Organics Disposal in 15 Years (tons) | 1,737,616 |
| Total Projected Wood and Lumber Disposal (tons) | 349,823 |
| <i>Other Wood Waste Disposal (treated and painted wood, included in above)</i> | 143,620 |
| Total Projected Green Materials Disposal (tons) | 428,717 |
| Total Projected Green Materials and Wood ADC Disposal (tons) | 92,717 |
| Total Projected Manure Disposal (tons) | 60,720 |
| Total Projected Food Scraps Disposal in 15 Years (tons) | 590,119 |
| Total Projected Compostable Paper Disposal in 15 Years (tons) | 215,521 |
| Projected Commercial Edible Food Disposal in 15 Years (tons) | 95,000 |
| Current Organics Capacity | |
| Total Current Year Permitted Facilities Permitted Organics Capacity (tons) | 1,852,325 |
| Total Current Year Permitted Facilities Operational Organics Capacity (tons) | 1,184,854 |
| Total Current Year Permitted Facilities and Programs Operational Organics Capacity (tons) | 1,214,129 |
| Total Current Year Available Operational Organics Capacity (tons) | 546,209 |
| Total Current Year Available Operational Green Materials, Wood & Lumber Capacity (Composting or Chip & Grind) | 422,169 |
| Total Current Year Available Operational Food Capacity (Not Including Commercial Edible Food Recovery) | 119,070 |

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| Description | Recalculated Input Value |
|--|---------------------------------|
| Total Current Year Available Operational Manure Capacity (tons) | 345 |
| Total Current Year Available Operational Food + Compostable Paper Capacity (tons) | 123,695 |
| Total Current Year Available Commercial Edible Food Recovery Capacity (tons) | 4,625 |
| Changes to Projected Organics Capacity | |
| Total Current Year Available Operational Organics Capacity (tons) | 546,209 |
| Changes in Available Operation Organics Capacity in 15 Years (tons) | 527,211 |
| Changes in Available Operational Green Materials, Wood & Lumber Capacity (Composting or Chip & Grind) | 315,520 |
| Changes in Available Operational Food Capacity (Not Including Commercial Edible Food Recovery) | 189,219 |
| Changes in Available Operational Manure Capacity (tons) | 13,371 |
| Changes in Available Operational Food + Compostable Paper Capacity (tons) | 198,319 |
| Changes in Available Commercial Edible Food Recovery Capacity (tons) | 9,100 |
| Total Projected Available Organics Capacity | |
| Total Projected Permitted Facilities Permitted Organics Capacity (tons) | 2,278,675 |
| Total Projected Permitted Facilities Operational Organics Capacity (tons) | 1,611,204 |
| Total Projected Permitted Facilities and Programs Operational Organics Capacity (tons) | 1,741,339 |
| Total Projected Available Organics Capacity in 15 Years (tons) | 1,073,420 |
| Total Projected Available Operational Green Materials, Wood & Lumber Capacity (Composting or Chip & Grind) | 737,689 |
| Total Projected Available Operational Food Capacity (Not Including Commercial Edible Food Recovery) | 285,039 |
| Total Projected Available Operational Manure Capacity (tons) | 13,716 |
| Total Projected Available Operational Food + Compostable Paper Capacity (tons) | 322,014 |
| Total Projected Available Commercial Edible Food Recovery Capacity (tons) | 13,725 |
| Current Shortfall in Organics Recycling Capacity | |
| Total Current Organics Disposal (tons) | 1,626,017 |
| Current Usable Available Organics Capacity (tons) | 546,209 |
| Current Shortfall or Excess in Organics Capacity (tons) | (1,079,808) |
| Current Shortfall or Excess in Green Materials, Wood & Lumber Capacity (Composting or Chip & Grind) | (393,130) |
| <i>Current Shortfall or Excess in Green Materials, Wood & Lumber Capacity, NOT including Other Wood Waste (tons)</i> | (258,734) |
| Current Shortfall or Excess Manure Capacity (tons) | (56,476) |
| Current Shortfall or Excess Food Scraps Capacity (tons) | (428,523) |
| Current Shortfall or Excess Food Scraps + Compostable Paper Capacity (tons) | (630,202) |
| Current Shortfall or Excess in Commercial Edible Food Recovery Capacity (tons) | (80,375) |
| Potential Shortfall in Projected Organics Recycling Capacity | |
| Total Projected Organics Disposal in 15 Years (tons) | 1,737,616 |
| Usable Available Organics Capacity in 15 Years (tons) | 1,073,420 |
| Potential Shortfall or Excess in Organics Capacity (tons) | (664,196) |

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| Description | Recalculated Input Value |
|---|--------------------------|
| Potential Shortfall or Excess in Green Materials, Wood & Lumber Capacity (Composting or Chip & Grind) | (133,567) |
| <i>Potential Shortfall or Excess in Wood & Lumber Capacity, NOT including Other Wood Waste (tons)</i> | 10,054 |
| Potential Shortfall or Excess Manure Capacity (tons) | (47,004) |
| Potential Shortfall or Excess Food Scraps Capacity (tons) | (268,104) |
| Potential Shortfall or Excess Food Scraps + Compostable Paper Capacity (tons) | (483,625) |
| Potential Shortfall or Excess in Commercial Edible Food Recovery Capacity (tons) | (81,275) |

Modified from CalRecycle's AB 876 Online Calculator
(<https://www2.calrecycle.ca.gov/LGCentral/AnnualReporting/OrganicsPlanningCalculator>)