



San Diego County Residential Gleaning Possibilities

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PURPOSE

This report has been completed with the help of numerous individuals and organizations. It is an estimate using various data points and assumptions. The goal of this report is to develop a better understanding of the enormous quantity of food available in residential gardens and to help organizations define and implement food recovery systems, redistribution, processing, landfill diversion and Green House Gas (GHG) avoidance in San Diego County.

The report currently shows Total County and Supervisorial District breakdowns. More detailed reports are being developed to include Jurisdiction and Zip Code level as well as top types of produce and potential harvest times.

This report represents the first publication of an original compilation of information from numerous sources as specifically noted in Acknowledgements.

METHODOLOGY

Data was gathered from SANDAG's Data Surfer online tool; the County of San Diego (COSD) Department of Agriculture, Weights and Measures; San Diego Hunger Coalition; San Diego Gleaning Organizations; San Diego Food System Alliance - Food Recovery Workgroup; Biocycle.net.

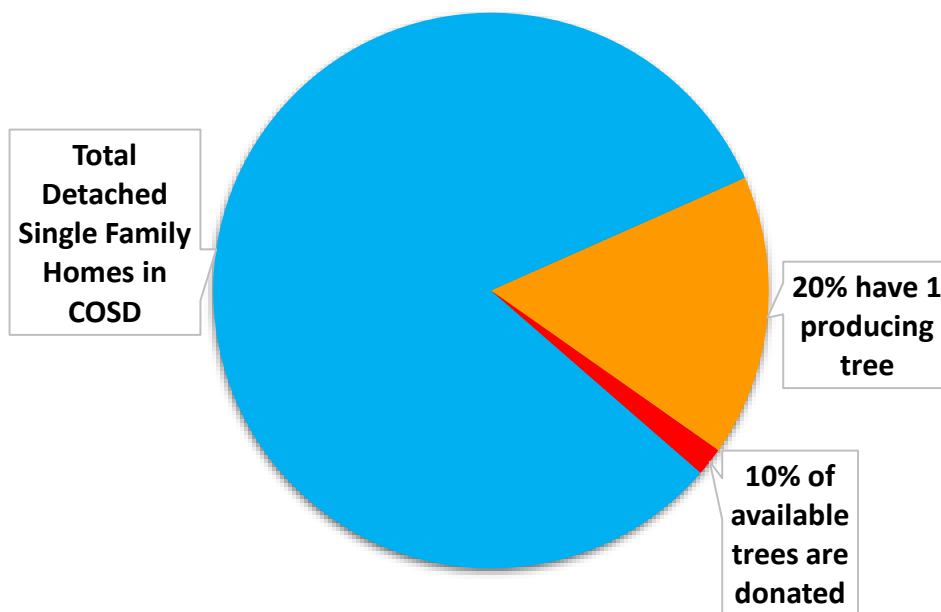
Data Sources:

- Single Family Detached Housing data is derived from 2016 Estimated San Diego figures in the SANDAG Data Surfer online tool <http://datasurfer.sandag.org/>
- MTCO_{2e} Avoidance calculation – Pounds of produce x 2.08, CalRecycle, Biocycle, <https://www.biocycle.net/2013/08/01/connection-co2-math-for-food-waste-transport/>

Assumptions:

1. The time frame represented is 2016
2. All produce volume figures are conservative
3. One season in one year (some varieties have multiple seasons per year)
4. COSD has estimated that 20% of all Single Family Detached homes in San Diego County have at least 1 producing tree. This assumption was derived by the Department of Agriculture, Weights and Measures based on internal data
5. 10% of the potential 20% of SFH owners in COSD will donate their crop
6. Yield -average pounds that can be picked from 1 tree (7 - 30 lb. buckets or 210lbs) San Diego Gleaners consensus
7. Potential Tons of landfill waste diverted - # of potential pounds/2000 = 1 Ton

2016 COSD POTENTIAL



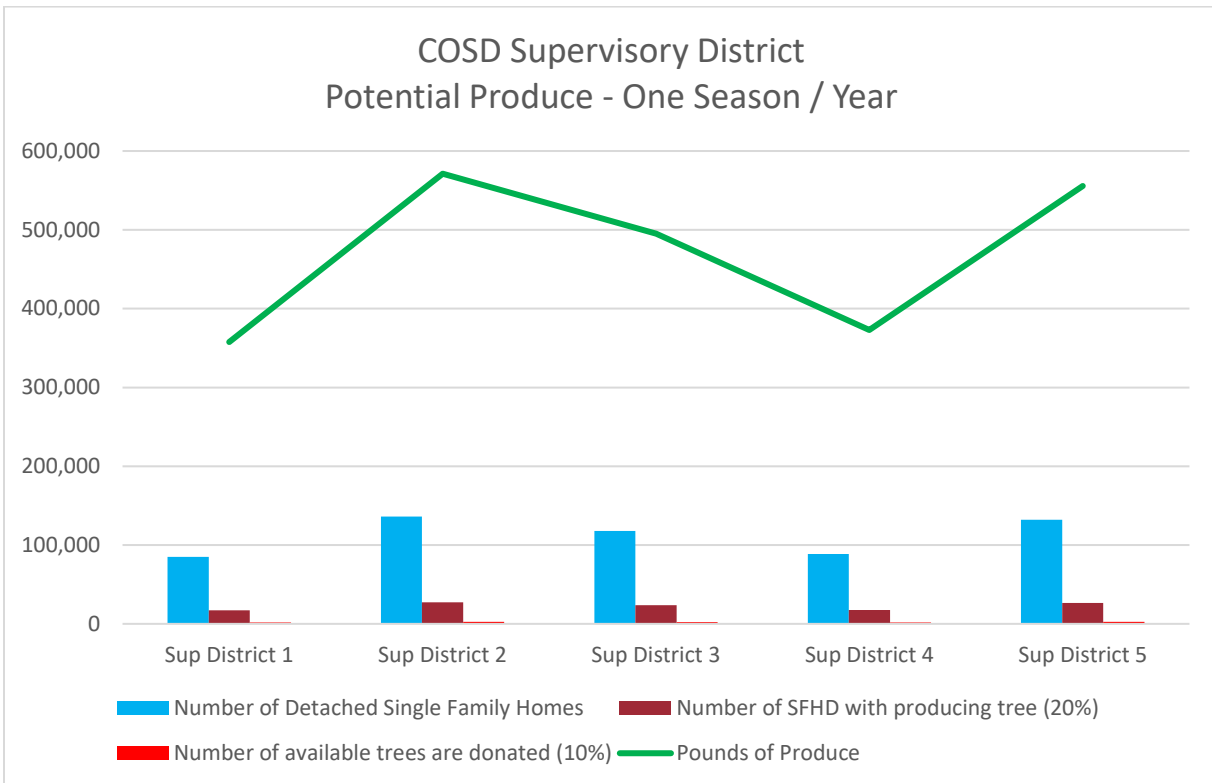
2,352,000 Pounds of Produce



Detached Single Family Homes in COSD*	20% Have One Tree	10% Of Produce Is Donated	Pounds of Produce
559,986	111,997	11,200	2,352,000

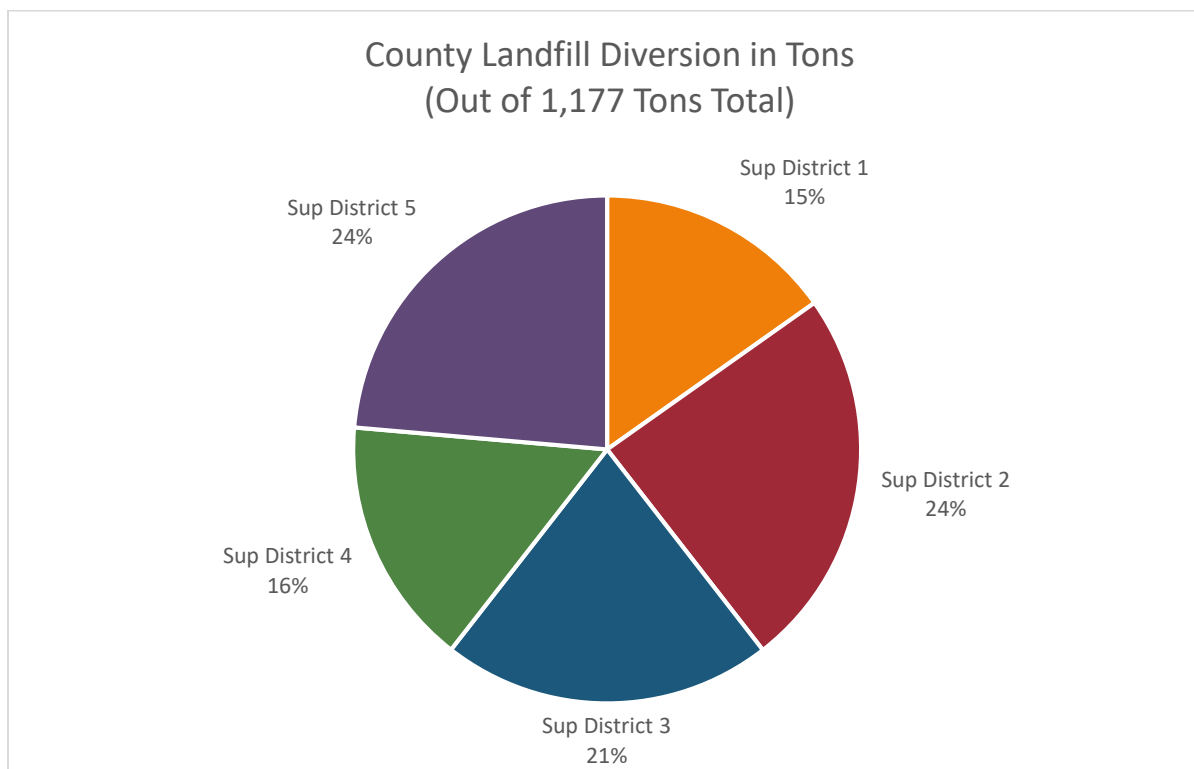
*SANDAG 2016

COSD POTENTIAL BY SUPERVISORY DISTRICT



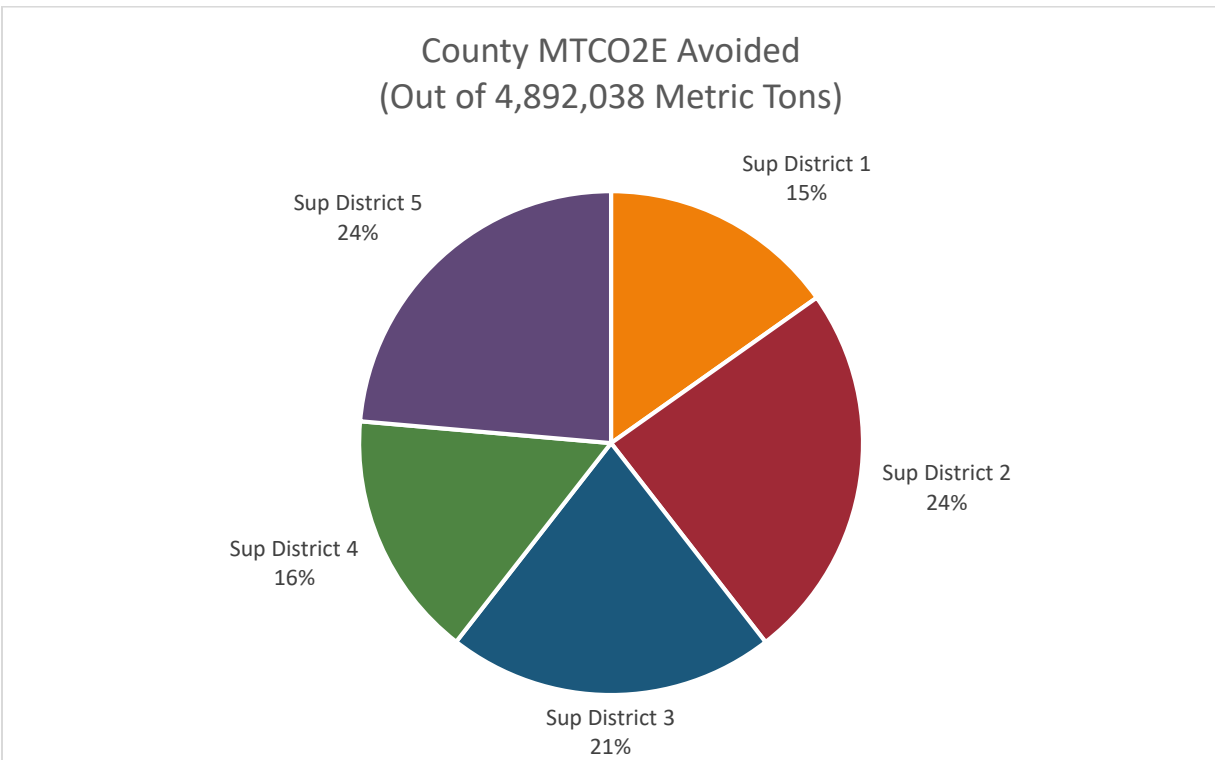
SANDAG 2016 Data	Number of Detached, Single Family Homes	Number of SFHD with producing tree (20%)	Number of available trees are donated (10%)	Pounds of Produce
Sup District 1	85,139	17,028	1,703	357,630
Sup District 2	136,003	27,201	2,720	571,200
Sup District 3	117,867	23,573	2,357	494,970
Sup District 4	88,723	17,745	1,774	372,750
Sup District 5	132,254	26,451	2,645	555,450
Countywide	559,986	111,997	11,200	2,352,000

LANDFILL WASTE DIVERSION



SANDAG 2016 Data	Landfill Diversion in Tons
Sup District 1	179
Sup District 2	286
Sup District 3	248
Sup District 4	186
Sup District 5	278
Countywide	1,177

MTCO₂E* AVOIDED



SANDAG 2016 Data	Pounds of Produce	MTCO₂E Avoided
Sup District 1	357,584	743,774
Sup District 2	571,213	1,188,122
Sup District 3	495,041	1,029,686
Sup District 4	372,637	775,084
Sup District 5	555,467	1,155,371
Countywide	2,351,941	4,892,038

*MTCO₂E = Metric Tons of Carbon Dioxide equivalent. Green House Gas emissions from produce in landfill creates methane. MTCO₂E = (2.08 x pounds of produce)

ACKNOWLEDGEMENTS

BioCycle

<https://www.biocycle.net/2013/08/01/connection-co2-math-for-food-waste-transport/>

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SANDAG

<http://datasurfer.sandag.org>

SDFSA FRWG

<http://www.sdfsa.org/food-recovery/>

San Diego Gleaning Organizations

<http://www.sdfsa.org/gleaning/>

About the Author

Living in Imperial Beach, California, Karen Clay has many years of experience as a business analyst and coach. Her interest in food recovery in San Diego County started in 2013 and in 2014 she became founding Chair of Harvest CROPS a non-profit gleaning organization that services San Diego County. Karen continues to participate in the San Diego South Bay Food Recovery Network and San Diego Food System Alliance working to reduce waste and feed those in need.

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