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/
- MTCO2e 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

Total Detached Single Family Homes in COSD

- 20% have 1 producing tree
- 10% of available trees are donated

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

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COSD POTENTIAL BY SUPERVISORY DISTRICT

COSD Supervisory District Potential Produce - One Season / Year

<table>
<thead>
<tr>
<th>SANDAG 2016 Data</th>
<th>Number of Detached, Single Family Homes</th>
<th>Number of SFHD with producing tree (20%)</th>
<th>Number of available trees are donated (10%)</th>
<th>Pounds of Produce</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sup District 1</td>
<td>85,139</td>
<td>17,028</td>
<td>1,703</td>
<td>357,630</td>
</tr>
<tr>
<td>Sup District 2</td>
<td>136,003</td>
<td>27,201</td>
<td>2,720</td>
<td>571,200</td>
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<tr>
<td>Sup District 3</td>
<td>117,867</td>
<td>23,573</td>
<td>2,357</td>
<td>494,970</td>
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<tr>
<td>Sup District 4</td>
<td>88,723</td>
<td>17,745</td>
<td>1,774</td>
<td>372,750</td>
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<tr>
<td>Sup District 5</td>
<td>132,254</td>
<td>26,451</td>
<td>2,645</td>
<td>555,450</td>
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<tr>
<td>Countywide</td>
<td>559,986</td>
<td>111,997</td>
<td>11,200</td>
<td>2,352,000</td>
</tr>
</tbody>
</table>
**San Diego County Residential Gleaning Possibilities, Rev. 0**

### SANDAG 2016 Data

<table>
<thead>
<tr>
<th></th>
<th>Landfill Diversion in Tons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sup District 1</td>
<td>179</td>
</tr>
<tr>
<td>Sup District 2</td>
<td>286</td>
</tr>
<tr>
<td>Sup District 3</td>
<td>248</td>
</tr>
<tr>
<td>Sup District 4</td>
<td>186</td>
</tr>
<tr>
<td>Sup District 5</td>
<td>278</td>
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<tr>
<td>Countywide</td>
<td>1,177</td>
</tr>
</tbody>
</table>

**County Landfill Diversion in Tons**

(Out of 1,177 Tons Total)

- Sup District 1: 15%
- Sup District 2: 24%
- Sup District 3: 21%
- Sup District 4: 16%
- Sup District 5: 24%

**SANDAG 2016 Data**

**Landfill Diversion in Tons**

- Sup District 1: 179 Tons
- Sup District 2: 286 Tons
- Sup District 3: 248 Tons
- Sup District 4: 186 Tons
- Sup District 5: 278 Tons
- Countywide: 1,177 Tons
**MTCO₂E Avoided**

### SANDAG 2016 Data

<table>
<thead>
<tr>
<th>Sup District</th>
<th>Pounds of Produce</th>
<th>MTCO₂E Avoided</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sup District 1</td>
<td>357,584</td>
<td>743,774</td>
</tr>
<tr>
<td>Sup District 2</td>
<td>571,213</td>
<td>1,188,122</td>
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<td>Sup District 3</td>
<td>495,041</td>
<td>1,029,686</td>
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<td>Sup District 4</td>
<td>372,637</td>
<td>775,084</td>
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<td>Sup District 5</td>
<td>555,467</td>
<td>1,155,371</td>
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<tr>
<td>Countywide</td>
<td>2,351,941</td>
<td>4,892,038</td>
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</tbody>
</table>

*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.sdfsao.org/food-recovery/

San Diego Gleaning Organizations
http://www.sdfsao.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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