Chicago's Harvest Study

Community Gardens Count Measuring Chicago's Harvest

Principal Investigators

Howard Rosing, DePaul University Ben Helphand, Neighborspace



Research Team

Domenic Vitiello, Angela Odoms-Young, Martha Boyd, Patricia Bon, Jenny Chen, Adrienne Detanico, Caitlin Donato, Guadalupe Garcia, Mae Kelly, Sally Hamann Sarah Hernadez, Nicole Llorens Monteserín, Rosamond Meerdink, Ken Wagner, Christopher Weber, Britt Willey, Michelle Jones; Amy DeLorenzo

Questions

How much food can and do Chicago's community gardens (CG) produce?

What is the economic value of CG food?

Where does CG food go?

What is the nutritional value of CG food?



Purpose

Impact of community gardens on food access in cities lacks grounding in empirical research.

To develop a fuller understanding of how the food system can influence the dietary intake and health of lowincome urban children



Broad Site Survey (3 season) measured food production in 260 gardens based on land yield estimates.

Methods

All Harvest Study

7 sites chosen as cross-section of Chicago's gardens: crop plans, nutrient density, produce yields.

Interviews

interviews with 53 gardeners at 32 gardens to understand food distributed



Findings

20% of all Chicagoans (547,360) live within 2 blocks (1/4 mile) of a community garden.

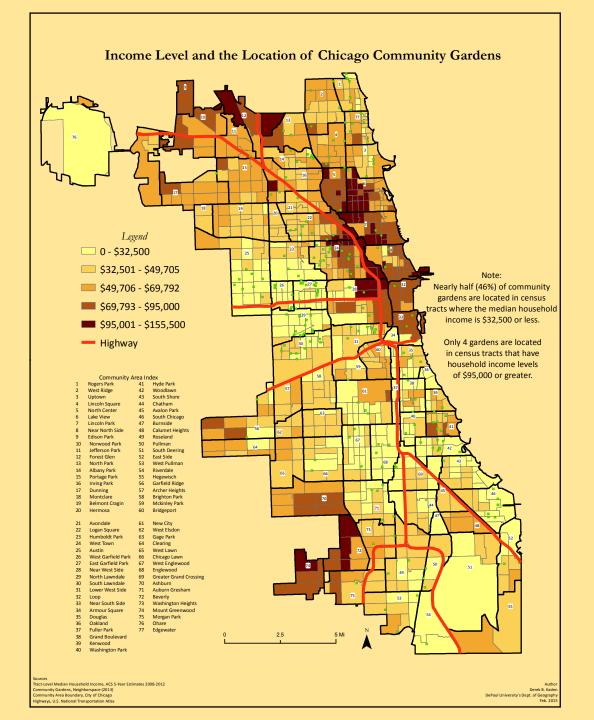
Total pounds of crops **517,157 Lbs.** (259 Tons)

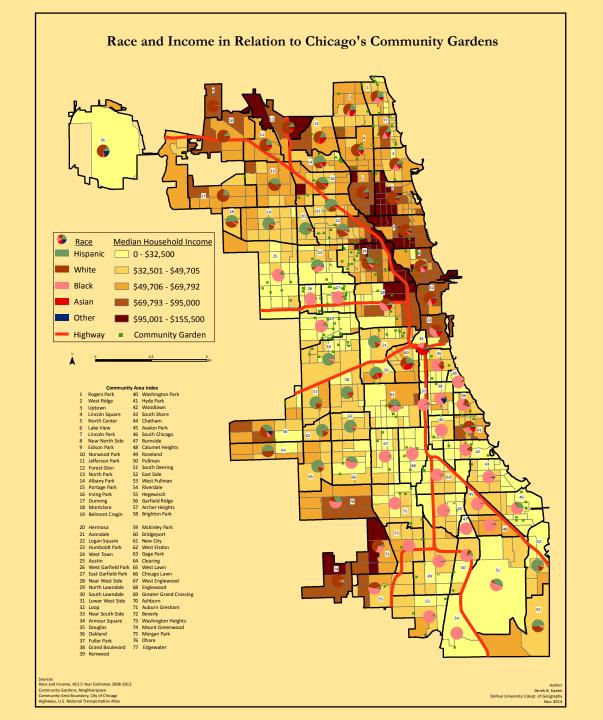
Total value of crops: \$1,665,698

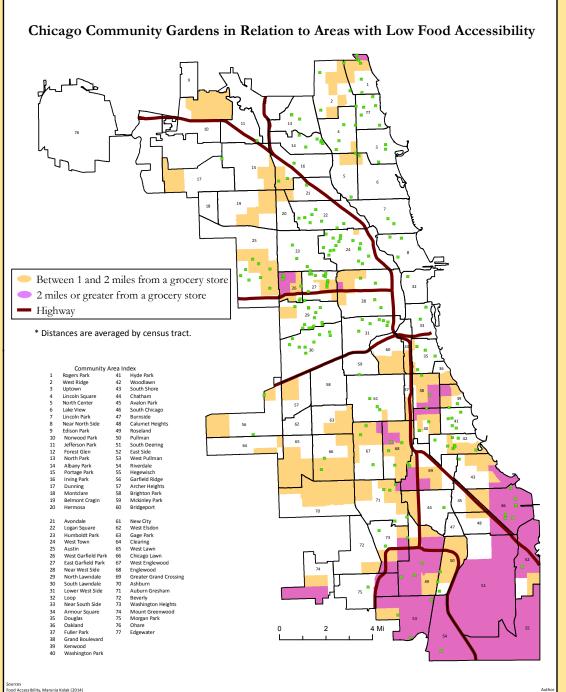
Total Acres: 42.56 ACRES

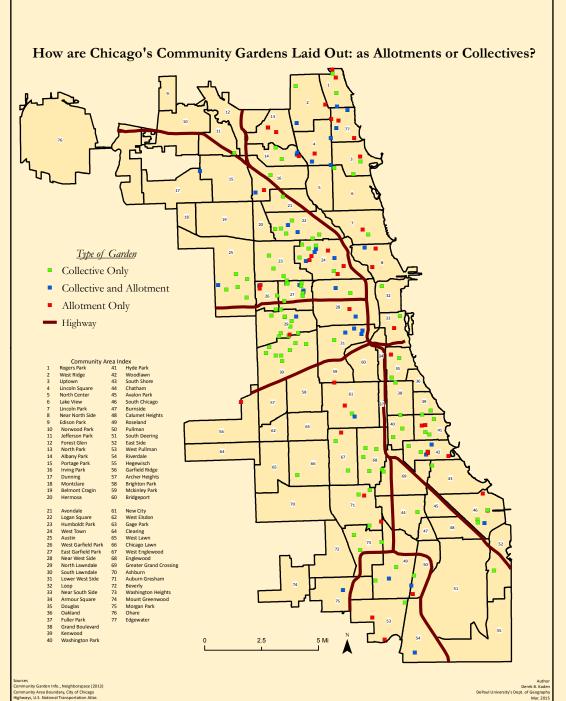












Yields (Lbs.)

| 1. | Tomato | 101,639 |
|-----------|-------------|---------|
| 2. | Squash | 56, 460 |
| 3. | Beans | 50,579 |
| 4. | Swiss Chard | 32,844 |
| 5. | Collards | 23,507 |
| 6. | Peas | 21,130 |
| 7. | Peppers | 17,295 |
| 8. | Corn | 16,481 |
| 9. | Lettuce | 14,863 |
| 10. | Onions | 14,436 |



Value (\$)

| 4 | |
|----|----------|
| | Lomatoes |
| 1. | Tomatoes |
| | |

2. Beans

3. Peas

4. Collards

5. Chives

6. Chard

7. Mint

8. Squash

9. Berries

10. Basil

\$204,294

\$112,791

\$112,415

\$97,792

\$91,092

\$90,979

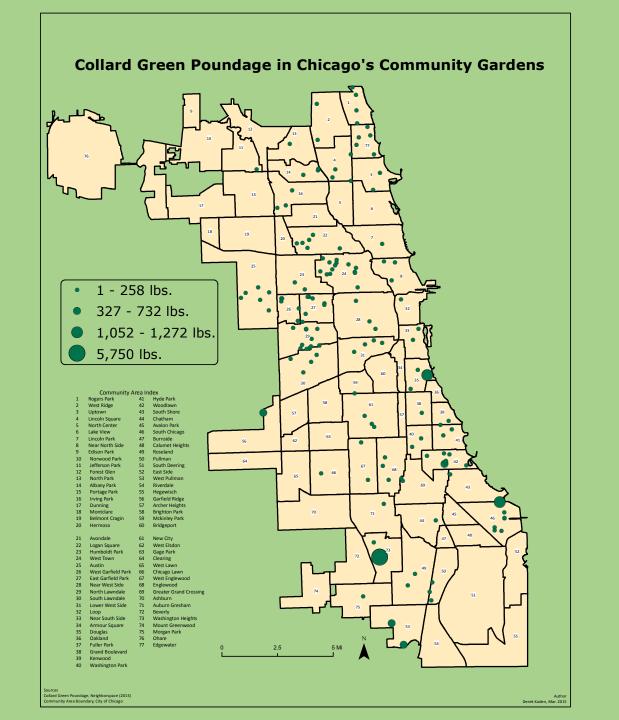
\$84,279

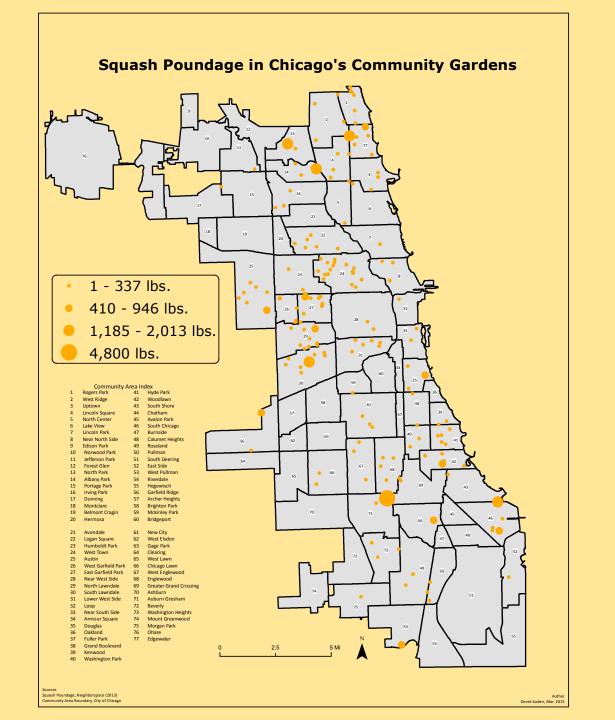
\$79,608

\$66,113

\$53,613







Distribution

Households, Neighbors, Friends, Youth



The neighbors take some, ain't nobody sellin' it, somebody might come by and take some, but most people come by and do it like they would from the store- put it in a box

So, for the most part, we're eating what we grow. And if we're not eating what we grow, people who walk by and pick it are eating what we grow



I think we really want kids to eat healthy. I mean we want families to eat healthy, but obviously starting with children. You know, teaching them why you're supposed to eat fruits and vegetables. I think we technically live in a food desert where there is not a lot of access to fresh produce, so wanting kids to have that access, but also just wanting kids to know like, "this is how broccoli grows, break it off and eat it.

And we also have kids who just — they'll take a pot of greens and take it home with them. And kids really, really love it cause I have this one kid who, two months ago, he was like, "Hey, are we gonna grow those things that are orange and long?" I was like, "A carrot." He was like, "Yeah, a carrot. Are we gonna grow those?"

I have a lot of neighbors who have kids who help me garden, they help me plant the seeds, they help me water. When I go out of town, I ask them to water, they love it. So, yeah, it's reaching a lot of, a lot of families.

Nutritional Yield

Mean Number of Servings of Select Vegetables Per Garden

| Item | N | Minimum | Maximum | Mean |
|-----------|-----|---------|-----------|--------|
| Beans | 166 | .24 | 23564.39 | 382.4 |
| Beets | 5 | .00 | 16.14 | 6.25 |
| Asparagus | 5 | .00 | 2.08 | .44 |
| Broccoli | 111 | .87 | 12823.98 | 319.1 |
| Bokchoy | 5 | .00 | 38.53 | 11.4 |
| Brussel | 37 | 1.37 | 6472.12 | 344.4 |
| Cabbage | 107 | 4.87 | 57183.66 | 1363.5 |
| Carrot | 127 | 5.32 | 49594.54 | 949.6 |
| Celery | 54 | 10.78 | 88334.27 | 2904.8 |
| Collard | 152 | 5.73 | 588516.51 | 6848.4 |
| Cowpeas | 6 | 1.62 | 32.95 | 14.8 |

Nutritional Yield

Mean Number of Servings of Select Fruits Per Garden

| Item | N | Minimum | Maximum | Mean |
|--------------|-----|---------|----------|--------|
| Grapes | 39 | .19 | 2472.23 | 183.2 |
| Strawberries | 119 | 1.19 | 24300.44 | 409.0 |
| Rhubarb | 60 | .00 | 68820.40 | 1714.4 |
| Melon | 97 | .51 | 6572.65 | 223.2 |

Daily Requirement: 3-4 servings per/day

Data Analysis by Angela Odoms-Young, UIC

Nutritional Yield

Mean Grams of Fiber for Selected Vegetables

| Item | N | Minimum | Maximum | Mean |
|-----------|-----|---------|-----------|---------|
| Alfafa | 5 | 26.12 | 1206.29 | 572.8 |
| Beets | 5 | .00 | 27.88 | 10.79 |
| Artichoke | 9 | 12.23 | 2927.75 | 481.4 |
| Beans | 166 | 8.82 | 883664.68 | 14341.5 |
| Broccoli | 111 | 2.99 | 43967.93 | 1094.0 |
| Bokchoy | 5 | .00 | 7.10 | 2.11 |
| Brussel | 37 | 4.25 | 20149.07 | 1072.2 |
| Cabbage | 107 | 4.59 | 53890.36 | 1285.0 |
| Carrots | 127 | 12.76 | 119026.91 | 2279.1 |
| Celeriac | 8 | 4.07 | 879.27 | 169.7 |
| Celery | 54 | 4.04 | 33125.35 | 1089.3 |
| Collards | 152 | 8.82 | 905410.02 | 10536.1 |
| Corn | 101 | 6.13 | 296986.88 | 7870.6 |

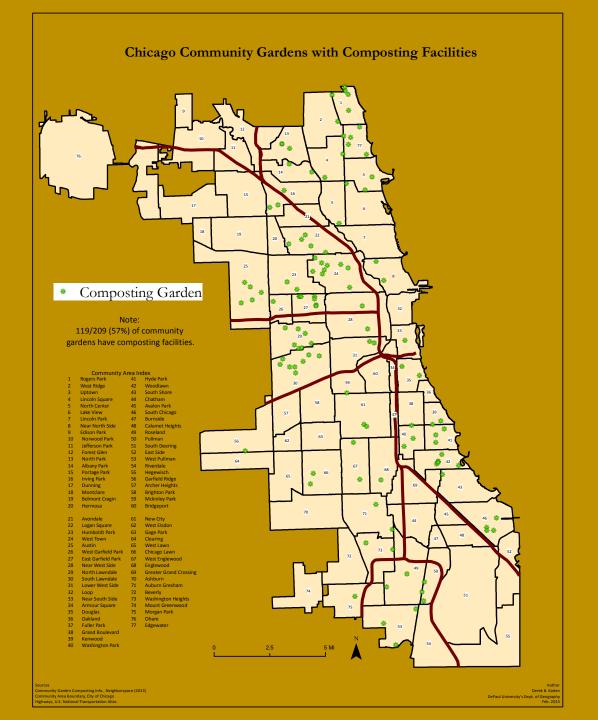
Policy/Funding Issues

Compost

Water

Season Extension









Chicago's Harvest Study

Thank you

Howard Rosing (hrosing@depaul.edu)



