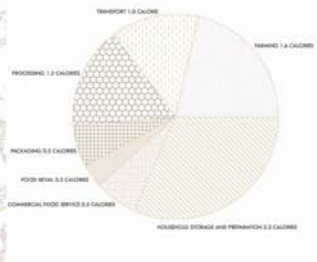


WASTED CALORIES



Conventional food production and distribution requires a tremendous amount of energy—one study conducted in 2000 estimated that ten percent of the energy used annually in the United States was consumed by the food industry. Yet for all the energy we put into our food system, we don't get very much out. A 2002 study from the John Hopkins Bloomberg School of Public Health estimated that, using our current system, three calories of energy were needed to create one calorie of edible food. And that was on average. Some foods take far more, for instance grain-fed beef, which requires thirty-five calories for every calorie of beef produced. What's more, the John Hopkins study didn't include the energy used in processing and transporting food. Studies that do estimate that say it takes an average of seven to ten calories of input energy to produce one calorie of food. Accounting for most of this wasteful equation are the industrial practices upon which our food system is built. These include inefficient growing practices, food processing, and storage, as well as our system of transporting food's thousands of miles between the field and the end consumer.

COST OF HEALTHY

NOT ALL CALORIES ARE PRICE THE SAME THANKS IN PART TO SKEWED SUBSIDIES OUR FOOD SYSTEM HAS MADE IT INEXPENSIVE TO EAT BADLY

AMERICAN JOURNAL OF CLINICAL NUTRITION

1,000 CALORIES OF POTATO CHIPS

875 CALORIES OF SODA

330 CALORIES OF VEGETABLES

170 CALORIES OF FRESH FRUIT

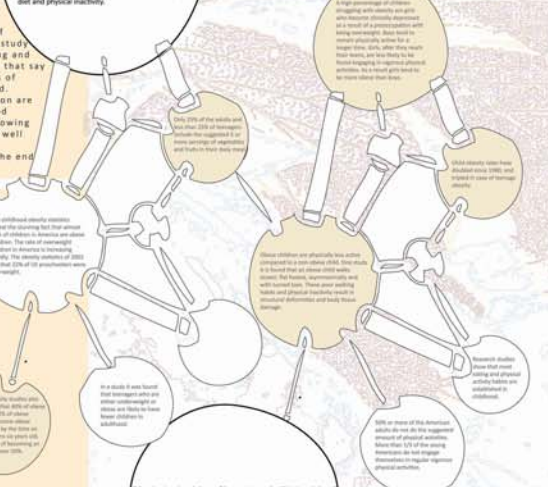
UNIVERSITY OF ILLINOIS Sandra Mason Horticulture & Environment

KANSAS STATE UNIVERSITY Sen Ae Park Candice Shoemaker Research partners

CHILDREN AND NATURE NETWORK CENTERS FOR DISEASE CONTROL AND PREVENTION

STATE OF YOUR HEALTH

The primary obesity causing factors are unhealthy diet and physical inactivity.



CLIMATE & FRUIT



With fruit trees and fruiting shrubs the first consideration is whether the plant can tolerate the average winter minimum temperature where you live. The USDA Plant Hardiness Zone Map plots out these temperatures in graphic form. Developed by the United States Department of Agriculture, these zones are based on the average lowest recorded temperatures. Fruit trees, fruiting shrubs, and perennial herbs are rated according to the coldest zone they can endure because cold is the most common factor limiting their growth. Note that in many cases there is great variation among varieties of one crop. Among apricots for example, planting a "Moorpark" north of Zone 6 is inviting failure, while a "Harogen" is likely to thrive all the way to Zone 4. Late Spring frosts that nip the tender buds of a fruit tree won't kill the tree but will prevent the crop from developing.

Most fruit trees also have both a requirement for heat accumulation and a limited tolerance to high temperatures. Peaches and nectarines generally require long hot summers to produce high quality fruit. Apricots, on the other hand, prefer cooler summers and do not reach peak flavor where the heat would be ideal for peaches.

Most fruit trees have a wide enough adaptation to temperatures so that they produce acceptable fruit in all but extremely hot- or cold-summer areas.

In addition to winter minimum temperature and timing of spring frosts, one more significant climate element limits successful growth of some crops, namely insufficient winter chill (hours of temperature below 45F). The cost of cheating too much on a plant's recommended zone is dead plant, a failed crop, or higher maintenance.

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MICROCLIMATES

Slopes, buildings, depressions, trees, ponds, driveways, and other landscape features affect growing conditions, creating microclimates—small areas that are naturally warmer or cooler than would be expected based on your zone. A colder than typical microclimate exists, for example, in a shaded depression at the base of a slope where cool night air pools; an example of a warm microclimate is a paved patio backed by south-facing masonry wall that traps and reflects heat.

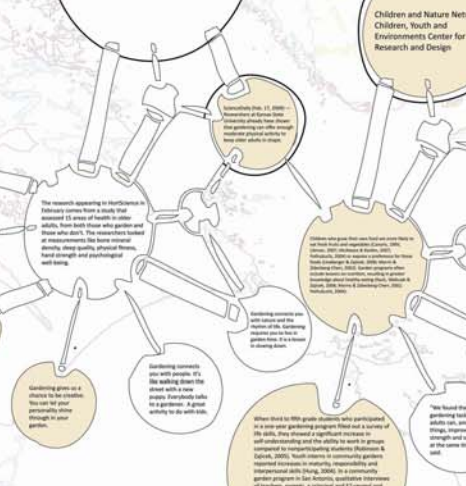
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- Artichoke, arugula, Asian greens, asparagus, beet, broad bean, broccoli, brussels sprouts, cabbage, carrot, cauliflower, celery, celery, chard, chive, Chinese cabbage, collards, endive, Florence fennel, garlic, kale, kohlrabi, leek, lettuce, mache, mesclun, onion, parsnip, pea, potato, radish, rhubarb, spinach, turnip

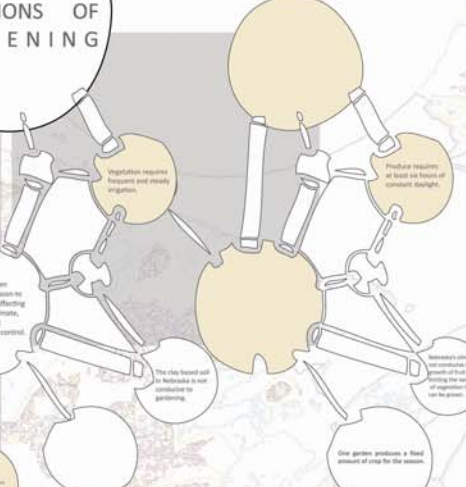
COOL VEGGIE

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HEALTH BENEFITS OF GARDENING



LIMITATIONS OF GARDENING



WARM VEGGIE

- Amaranth, cowpea, cucumber, eggplant, Jerusalem artichoke, lima bean, malabar spinach, muskmelon, New Zealand spinach, okra, pea, pea, pepper, pumpkin, snap bean, soybean, squash, sweet corn, sweet potato, tomatillo, tomato, watermelon

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ALL GARDENING IS LANDSCAPE PAINTING
ALEXANDER POPE

WHY GARDENING?