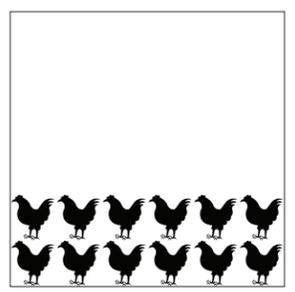
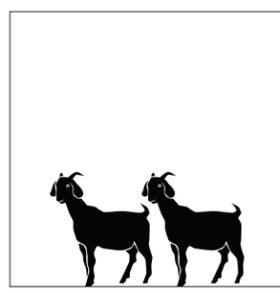
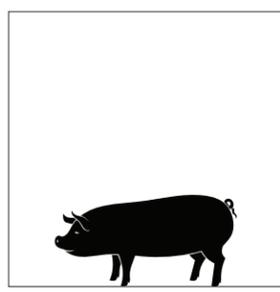
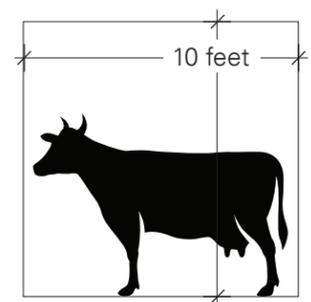


INPUT



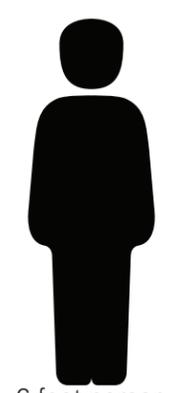
living floor area



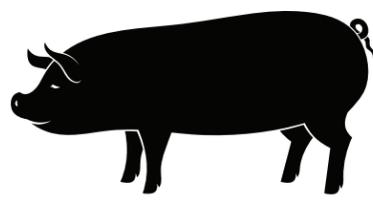
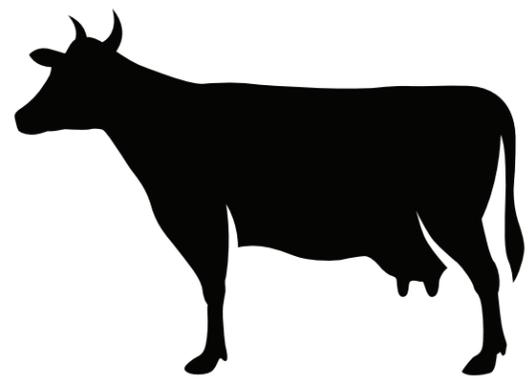
pounds of food



gallons of water



6 foot person



Butcher Weight: 1000 - 1200 pounds
Freezer Weight: 600 pounds
Waste Weight: 600 pounds
Natural Lifespan: 20 - 25 years
Production Lifespan: 12 months

Butcher Weight: 250 pounds
Freezer Weight: 125 pounds
Waste Weight: 125 pounds
Natural Lifespan: 15 - 20 years
Production Lifespan: 4 - 10 months

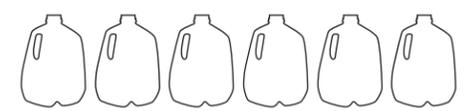
Butcher Weight: 240 - 300 pounds
Freezer Weight: 150 pounds
Waste Weight: 150 pounds
Natural Lifespan: 10 - 15 years
Production Lifespan: 6 - 8 months

Butcher Weight: 6 pounds
Freezer Weight: 4 pounds
Waste Weight: 2 pounds
Natural Lifespan: 8 - 10 years
Production Lifespan: 9 - 12 weeks

OUTPUT



gallons of milk produced daily



100 pounds of meat per animal



pounds of manure



All animals are created **equal**, but some are **more equal** than others.

--George Orwell, Animal Farm

1 cow requires 2% of its weight in pounds of hay per day, 0.25% of corn

Assume cow weighs 1000 pounds, needs 20 pounds of hay, 2.5 pounds of corn

Loose Alfalfa Hay weighs 4 - 4.4 pounds per cubic foot (450 - 500 cubic feet per ton) (source2)

30% Moisture Shelled Corn weighs 54 pounds per cubic foot (source2)

1 cow requires 4.5 cubic feet of loose hay, 0.05 cubic feet of corn per day

1 cow requires 1659 cubic feet (7,300 pounds) of loose hay, 18.25 cubic feet (912.5 pounds) of corn per year

10,000 pounds of hay per acre, 155.3 bushels (8,696.8 pounds) of corn per acre per year (source4)

1 cow requires .73 acres of hay and .10 acres of corn per year

1 pig requires 6 pounds of food per day (2,190 pounds per year), or .25 acres

1 goat requires 4 pounds of hay per day (1,460 pounds per year), or .15 acres

1 chicken requires .25 pounds of corn per day (91.25 pounds per year), or .01 acres

1 acre of hay can support 1 cow and 1 goat per year

1 acre of corn can support 3 pigs and 15 chickens per year, with supplementary food for 1 cow

1 acre of corn requires 350,000 gallons of water over a 100 day growing season (source3)

1 acre of hay requires 165,926 gallons of water over a 100 day growing season (6" of water per acre)

1 cow (18 gallons) + 1 goat (4 gallons) + 3 pigs (15 gallons total) + 15 chickens (3.75 gallons total) = 14,873.75 gallons of water per year

530,800 gallons of water is required to support 1 cow, 1 goat, 3 pigs, and 15 chickens per year

1 cow (16 pounds of manure) + 1 goat (12 pounds) + 3 pigs (6 pounds total) + 15 chickens (3.75 pounds total) = 37.75 pounds of manure

1 cow (100 square feet of living space) + 1 goat (50 SF) + 3 pigs (300 SF total) + 15 chickens (125 SF total) = 575 square feet (0.01 acres) of sleeping space

Four legs good, **two legs [bəd] better.**

--George Orwell, Animal Farm



FARMER
2' x 2' x 6' (4 SF)
use: farmwork



TRACTOR
22.5' x 12' x 12.5' (270 SF)
use: pulls equipment



FIELD CULTIVATOR
25' x 20' x 16.5' (500 SF)
use: tills soil with teeth



DISK HARROW
25' x 19' x 13.5' (475 SF)
use: tills soil with disks



DRAWN FIELD SPRAYER
50' x 9' x H (450 SF)
use: sprays water or pesticide



FERTILIZER SPREADER
18' x 8' x H (144 SF)
use: spreads fertilizer behind tractor



GRAIN DRILL
36' x 17.5' x 12' (630 SF)
use: places seeds and covers with soil



ROW CROP PLANTER
36' x 13.5' x 13' (486 SF)
use: places seeds in rows and covers with soil



COMBINE HARVESTER
12' x 30.5' x H (366 SF)
use: picks and cleans crop, sieve crop junk



MOWER
21.5' x 15' x H (323 SF)
use: cut plants



PICK UP BALER
18.5' x 13.5' x H (250 SF)
use: turns hay into bales of hay



STACK WAGON
23' x 12' x 15' (276 SF)
use: transports rectangular bales of hay



MULTI-BALE MOVER
30.5' x 8' x H (244 SF)
use: transports round bales of hay



GRAVITY FLOW WAGON
24' x 8.5' x 9.5' (204 SF)
use: stores crop and transports



GRAIN AUGER CART
25' x 8.5' x 10.5' (213 SF)
use: moves and stores bulk grain



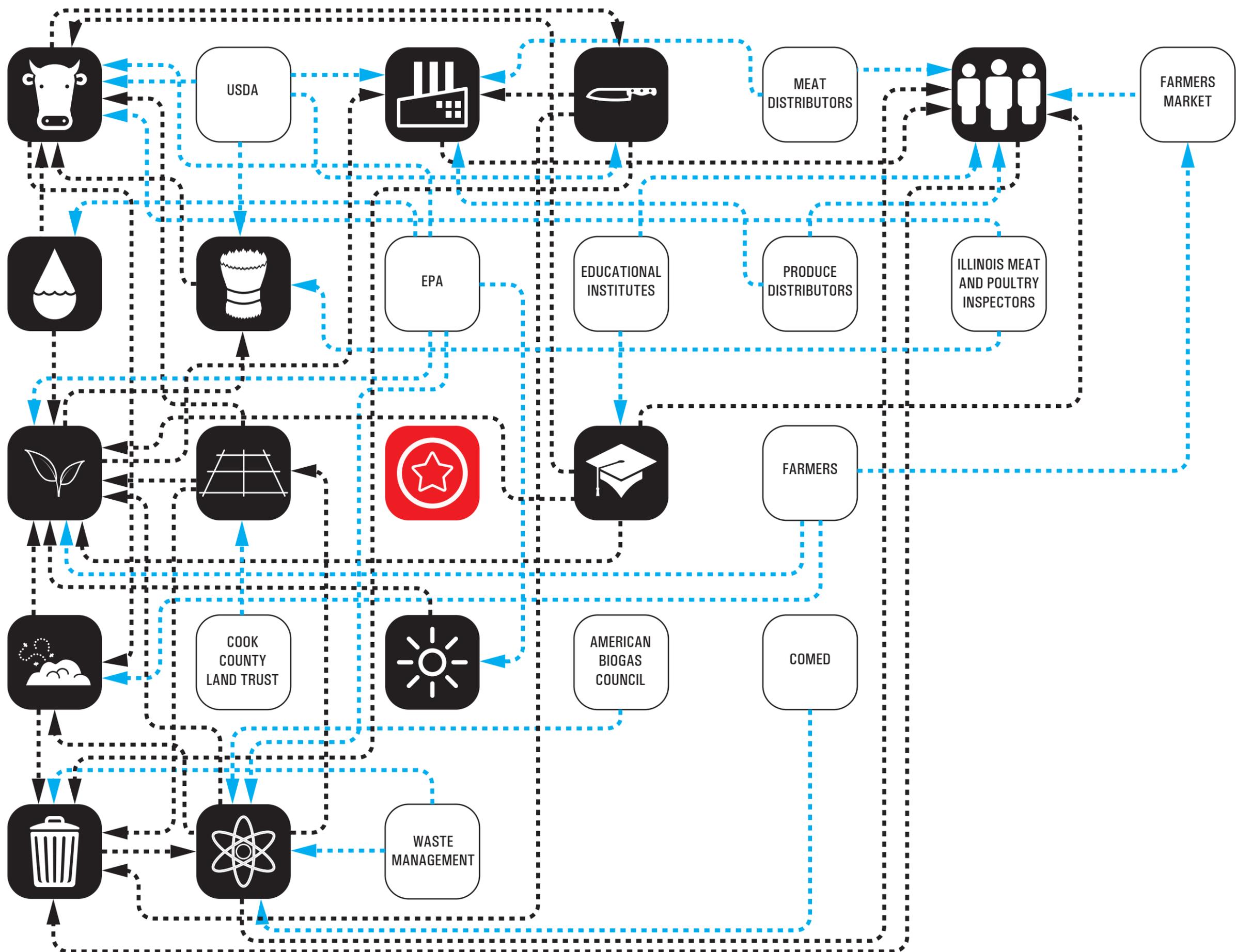
SKID-STEER LOADER
10' x 5' x H (50 SF)
use: moves material

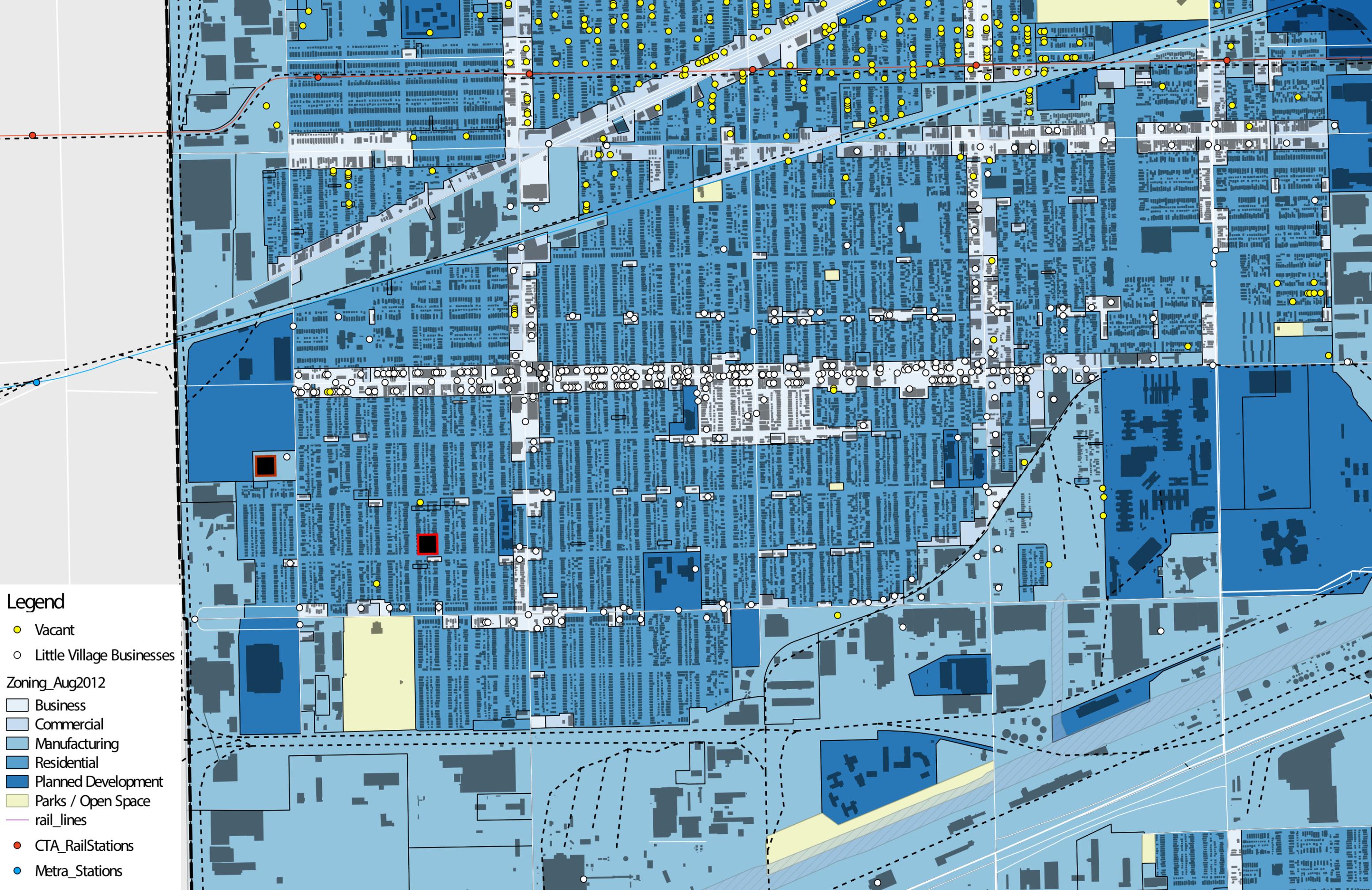


STALK SHREDDER
10' x 12' x H (120 SF)
use: cuts down unused parts of crop



MIXER FEEDER WAGON
20' x 9' x 8' (180 SF)
use: mixes food and water for cattle





- Legend**
- Vacant
 - Little Village Businesses
- Zoning_Aug2012**
- Business
 - Commercial
 - Manufacturing
 - Residential
 - Planned Development
 - Parks / Open Space
- rail_lines
- CTA_RailStations
 - Metra_Stations