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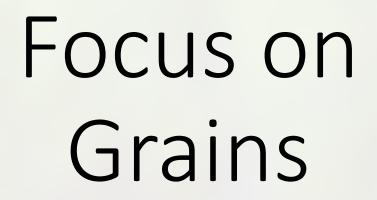
#CrazyGrainLady

Inspired by Agriculture









Cereals in the Poaceae family

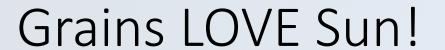
GRASSES











FULL SUN = 8+ hours PART SUN = 4-6 hours

GRAINS DO NOT LIKE SHADE

Water in summer during HOT & DRY conditions





The Serpentine at Chanticleer Garden





How much beer?









200 square feet = 4lbs of barley seed



Gluten Free Grains

Corn
Oats
Rice
Sorghum
Teff









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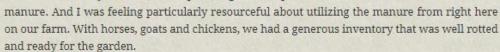
Killer Compost

BY JOE LAMP'L ON AUGUST 19, 2013

It Happened to Us!

I say it often; it's alright to make mistakes as long as you learn from them-especially in the garden. Well, I made a doozy recently and have I ever learned from it.

If you watched our Episode 406 on building out our GGWTV Vegetable Garden, you know how hard we've been working. I was especially proud when the time finally came to fill my beds with carefully selected, rich topsoil, organic compost and



As a full time gardening communicator who prides himself at being in the know, I am also aware of the potential current hazards of using manure to amend garden soil. In recent years, it has become very apparent that some herbicides used to control weeds in farm fields persist for a very, very long time. Even worse, they don't readily break down, even as composted manure!



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GET IT!

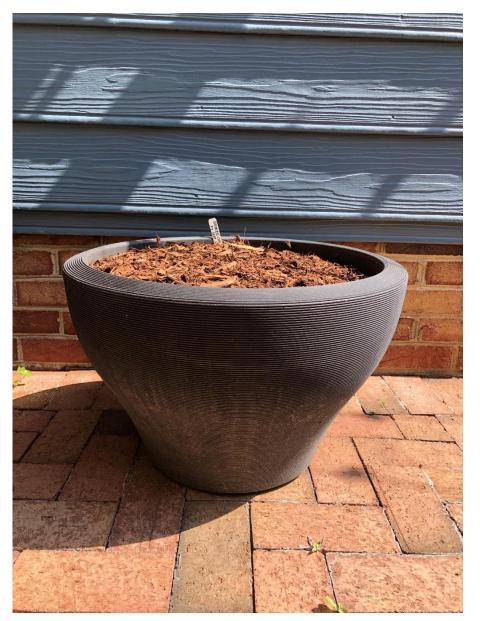


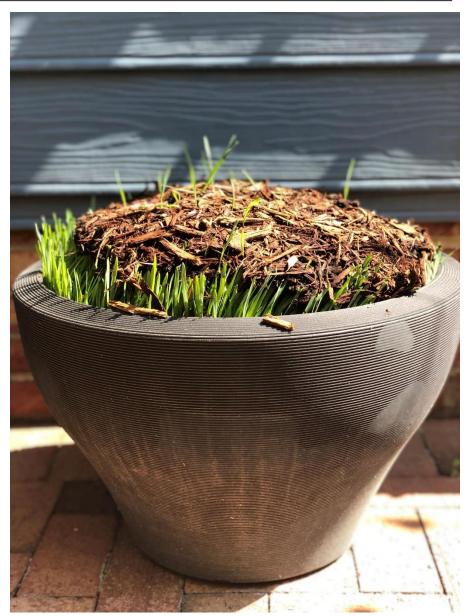
How to Grow Grains?



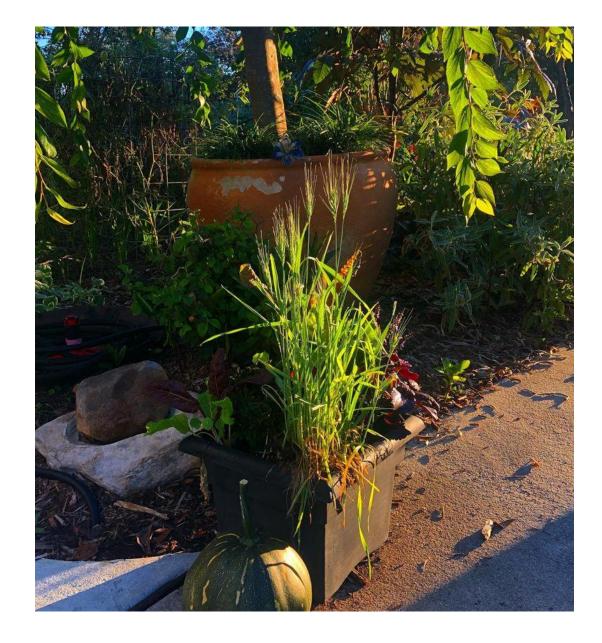


Germinates in 2 weeks











How much flour do you get from 3 5 gallon fabric bags?

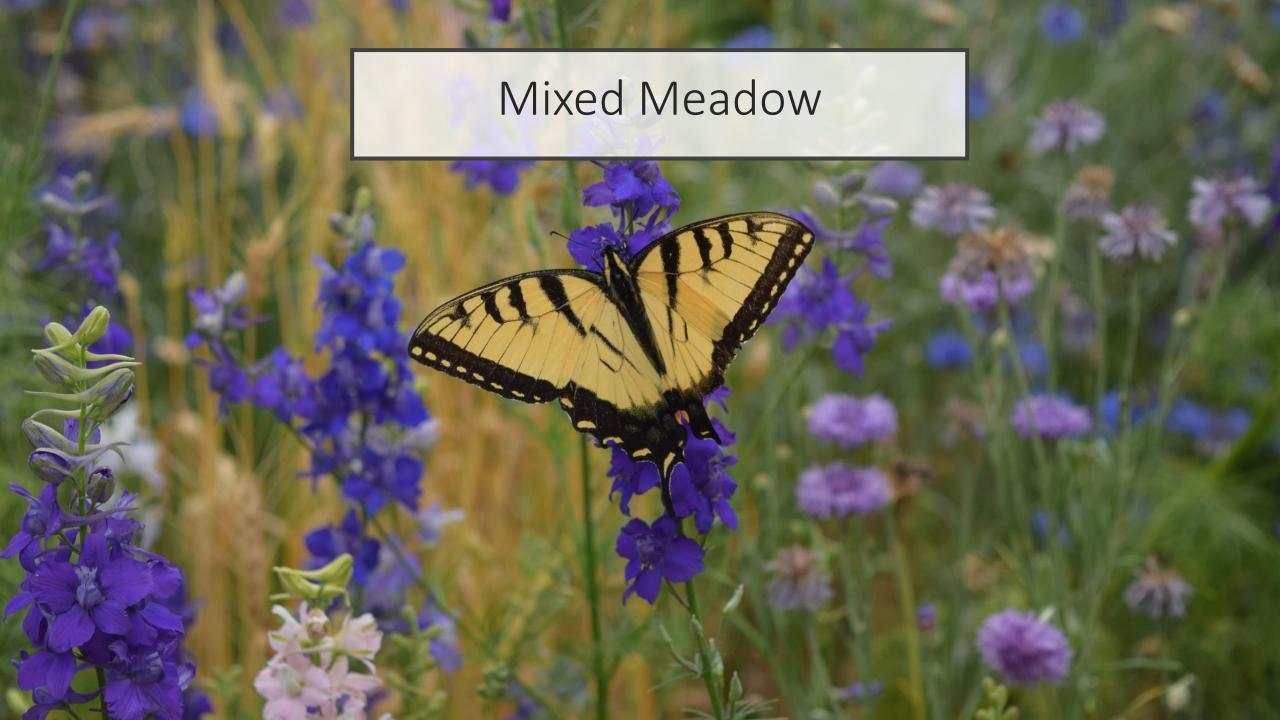
1 loaf of bread



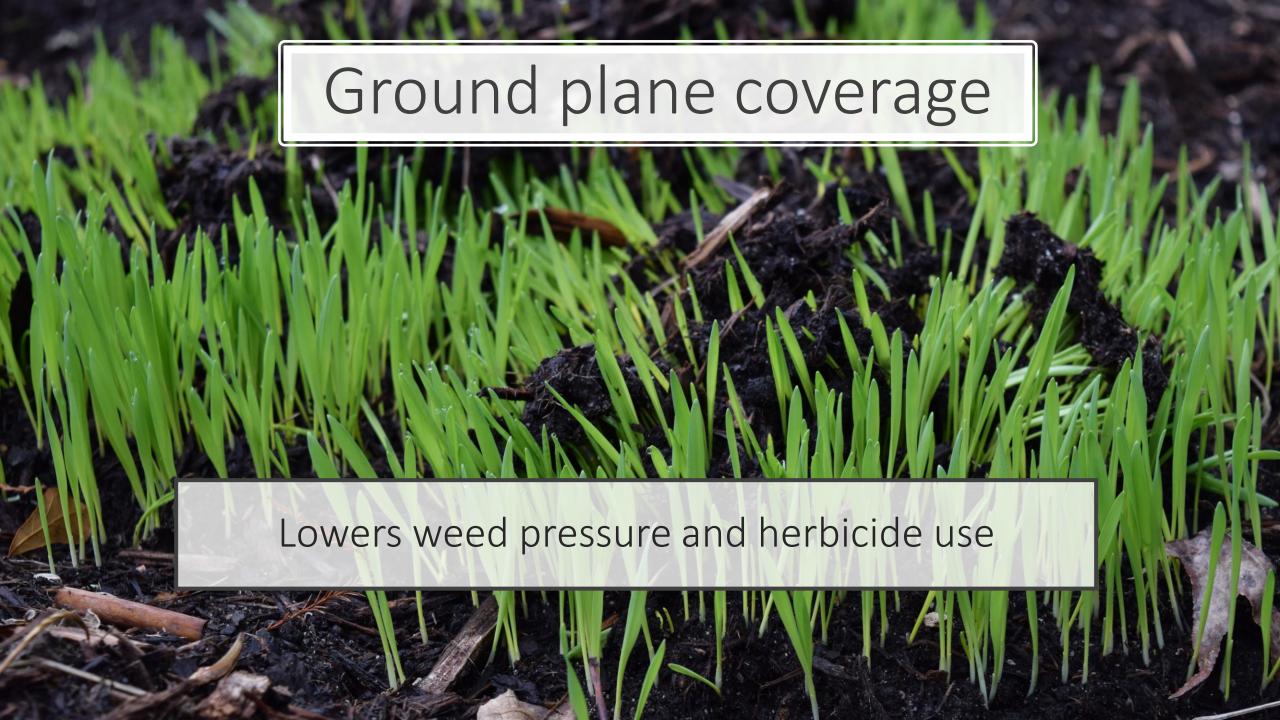








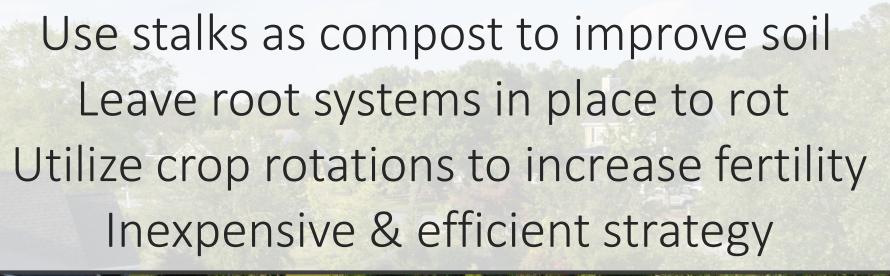






After harvest mow the stalks in place Shredded organic matter breaks down in 30-45 days











What are cover crops?

A cover crop is a plant that is used primarily to slow erosion, improve soil health, enhance water availability, smother weeds, help control pests and diseases, increase biodiversity and bring a host of other benefits to your land.



Rotate Grains & Legumes for natural fertilization cycle

Legume Cover Crops:

Crimson Clover

Red Clover

Hairy Vetch

Austrian Winter Pea

White Sweetclover

Yellow Sweetclover

Berseem Clover

Subterranean Clover

White Clover

Faba Bean

Soybean

Peanuts

(Trifolium incarnatum)

(Trifolium pratense)

(Vicia villosa)

(Pisum sativum subsp. arvense)

(Melilotus alba)

(Melilotus officinalis)

(Trifolium alexandrinum)

(Trifolium subterraneum)

(Trifolium repens)

(Vicia faba)

(Glycine max)

(Arachis hypogaea)





Non-legume cover crops:

Cereal Rye

Annual Ryegrass

Barley

Buckwheat

Mustard

Oats

Rape

Forage Radish

Winter Wheat

(Secale cereale)

(Lolium multiflorum)

(Hordeum vulgare)

(Fagopyrum esculentum)

(Brassica nigra)

(Avena sativa)

(Brassica napus)

(Raphanus sativus)

(Triticum aestivum)



Cool Season Root Cover Crops

Beets
Carrots
Daikon Radish
Parsnips
Potatoes
Rutabaga
Turnips







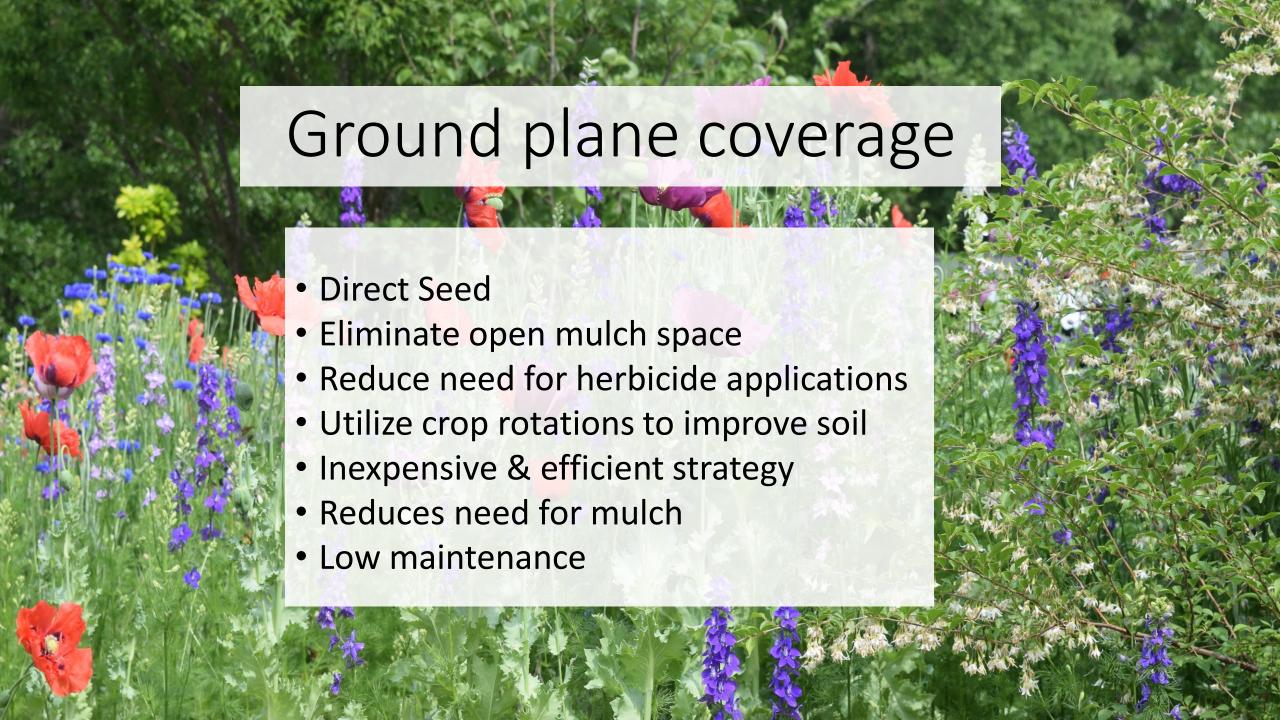






Cool Season Flowering Cover Crops

Cilantro, Poppies, Nigella, Carrots, Larkspur



No Pre-Emergent Herbicides

Pre-emergence weed control prevent "weeds" from germinating. This will also prevent intentionally sown seed for establishing and creating a long-term seed bank



Weed Control 101: Hand Weeding is ALWAYS BEST!

DO NOT USE VINEGAR IN YOUR GARDEN!

- Vinegar can be used on hardscape spaces at a 15% concentration to be effective; very caustic, will burn skin and eyes and harmful to amphibians. DO NOT USE VINEGAR!
- Glyphosate is a broad-spectrum systemic herbicide and desiccant. It is an organophosphorus compound, specifically a phosphonate, which acts by inhibiting the plant enzyme 5enolpyruvylshikimate-3-phosphate synthase. It is used to kill weeds, especially annual broadleaf weeds and grasses that compete with crops.
- Glufosinate does not translocate as well, need to use on seedling broadleaf weeds, glyphosate resistant horseweed. Use with pre emergent. Does not work as well on Bermuda, pigweed, some annual weeds

Weed Control 101: Hand Weeding is ALWAYS BEST!

- Envoy does not work on drought stressed grasses
- Avenger (d-limonene) good contact herbicide at correct dosage on broadleaf seedlings.
 No effect on grasses or nutsedge
- Scythe and Axe (pelagonic acid) will burn but weeds come back. Need good spray coverages and need two applications to finish the job, works within hours but stinks and odor persists
- Reward or diquat works better than scythe need 2 apps not effective on grasses works fast do not mix with selective grass herbicides

All more expensive then glyphosate

What are Grains?



Ancient Grains

- Wheat: Spelt, Kamut, Freekeh, Bulgar, Farro, Einkhorn and Emmer
- Barley, Millet, Teff, Oats and Sorghum
- Pseudocereals: Amaranth, Buckwheat, Quinoa and Chia



Cool Season Grains

Barley Oats

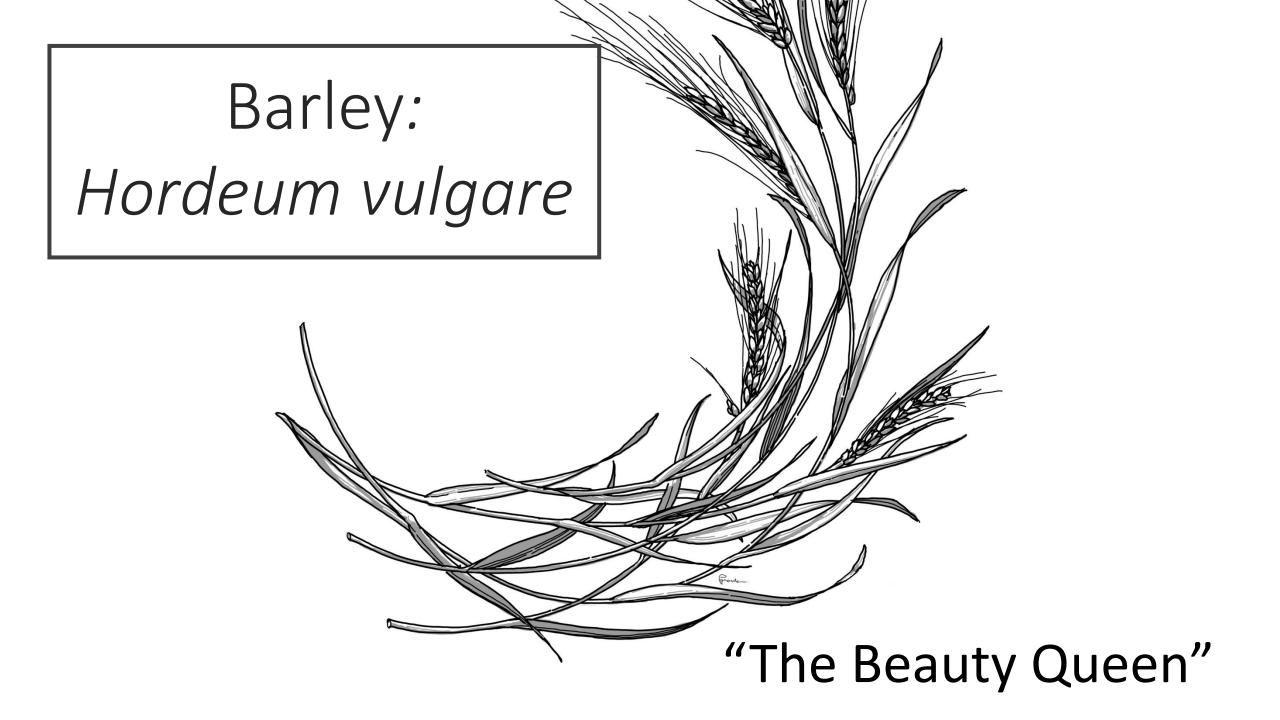
Rye Wheat

Prefer cool soil and air temperatures

Sow in late fall or early spring

Harvest in summer





- Barley seed was a form of measurement, weight & currency
- American shoe sizes are still a reference to "Barleycorn"
- The saying "eating your savings" refers to barley

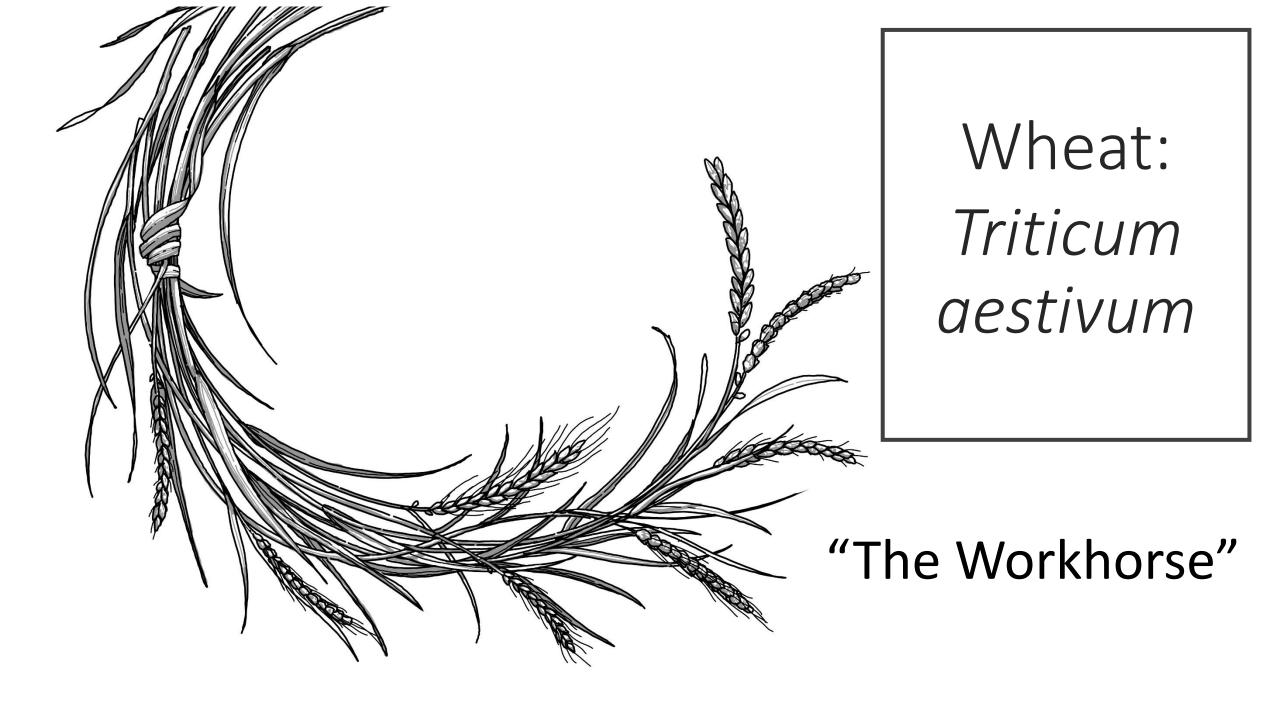




"The Dancer"

- Oats have the deepest root systems reaching 36"+ and act as nutrient scavengers
- Oats and Peas combined are a "complete" cover crop
- The term "sow your wild oats" means to grow a crop that you will regret and dates to the 1560s

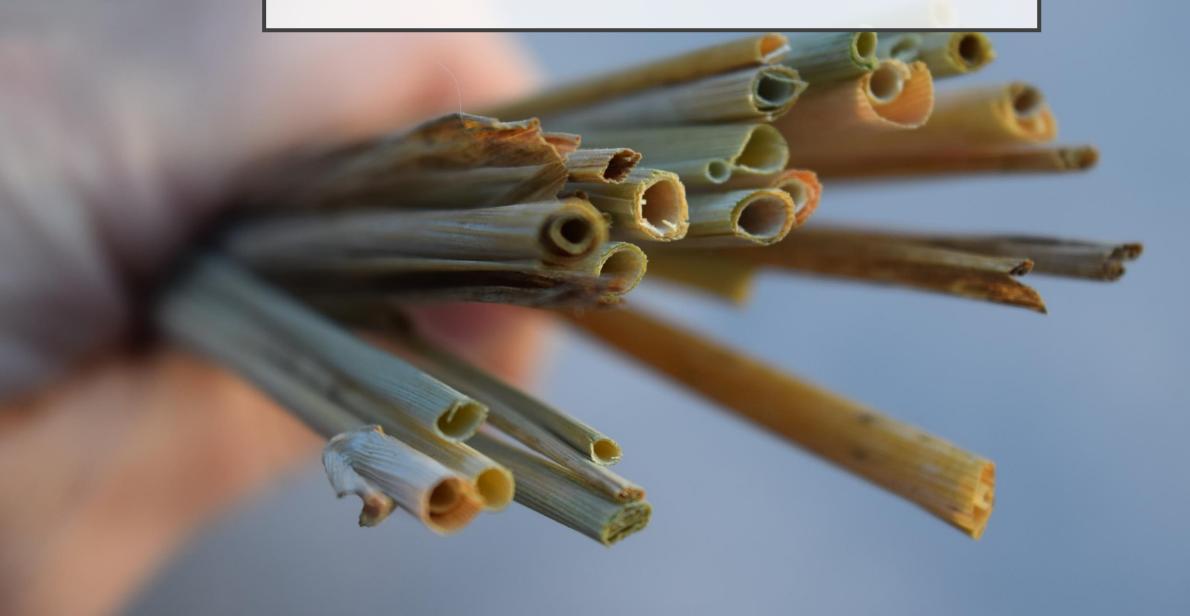




- Wheat is grown on more land than any other crop and is cultivated on every continent except Antarctica
- Wheat has 13% vegetable protein content- more than all other major cereals



Stem Strength MATTERS!





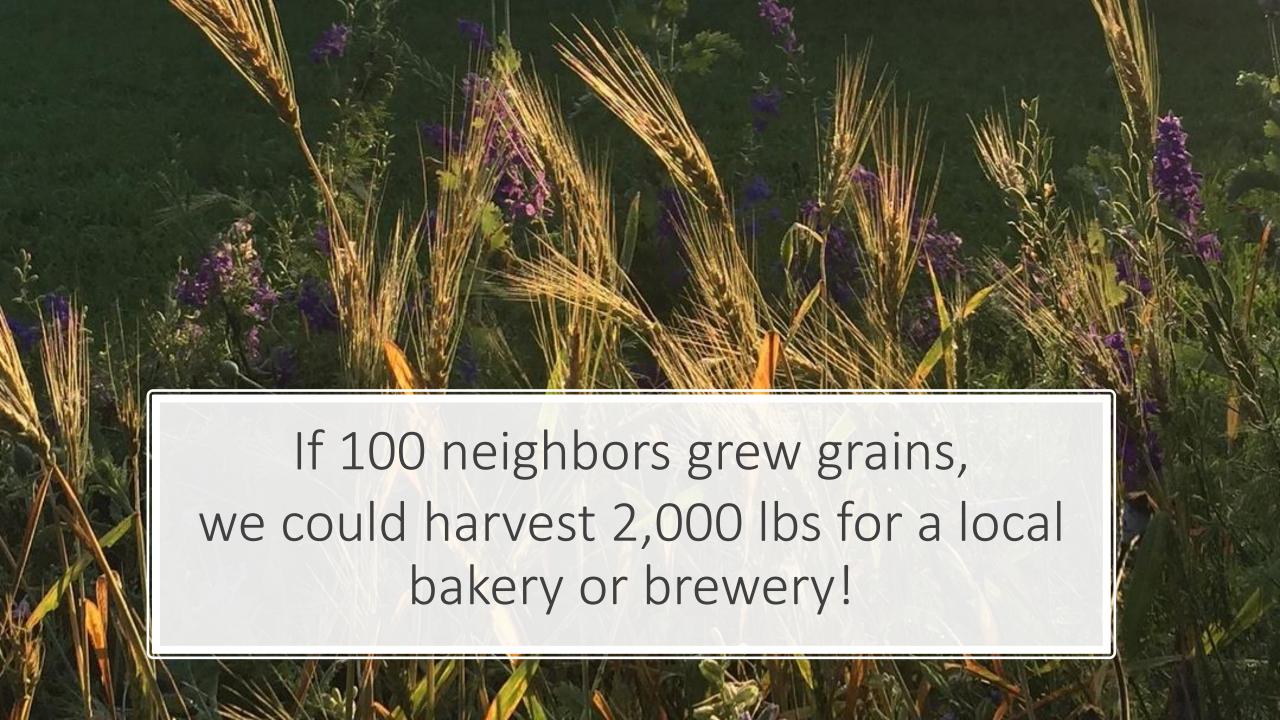






Clean seed ready to grind or sow







Warm Season Grains

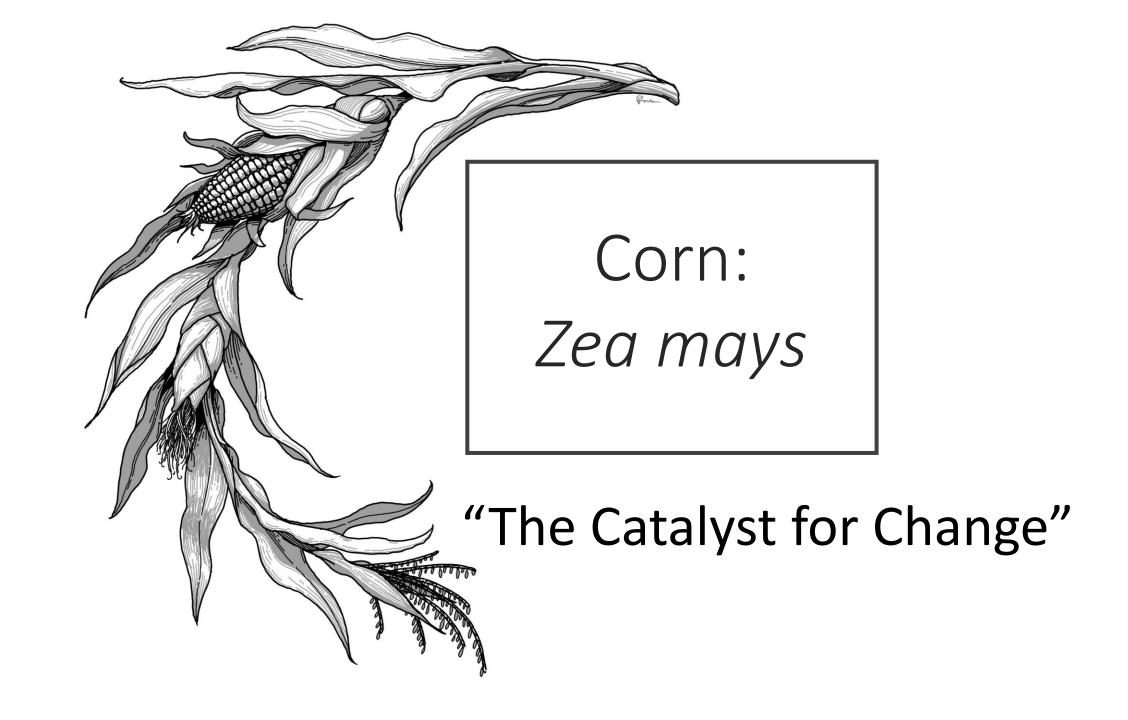
Corn Millet

Rice Sorghum

Prefer warm soil and air temperatures

Sow in early summer

Harvest in fall



 Corn is the only cereal grain native to North America

 An ear of corn has an average of 800 kernels in 16 rows and will always have an even number of rows

 There are over 3,500 different uses for corn products globally





Corn is an exclamation point in the garden

Rice: Oryza sativa

"The Mystifier"



- Rice does not have to be grown in constant saturation. Paddies are a way to naturally reduce weed pressure
- April 19th is national Rice Ball day
- Over 40,000 varieties of rice





Rice is a warm season grass

Very Ornamental

Seed can be harvested August-October

Great container plant Can tolerate no drainage





Direct sow seed in June

pot with no drainage holes

Full Sun

Keep it saturated

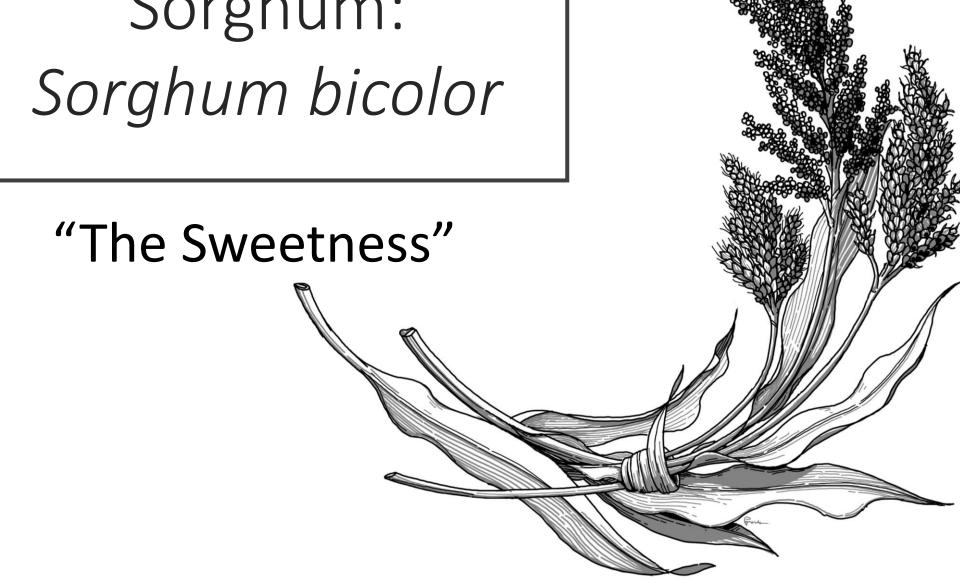




Purple Fountain Grass collapses in rain

'Black Madras' & 'Carolina Gold' rice





Fun Facts

- When Mary Poppins sang "A spoon full of sugar" she was referring to a spoon full of sorghum syrup, which is full of nutrients and vitamins
- Sorghum is the most heat and drought tolerant cereal grain
- Sorghum is gluten free



Sorghum grows up to 14' tall in less than 4 months Heat and Drought Tolerant





Seed Color Variation

Ideal Bird Seed





What do you DO with these grains?



The Wonder Mill & Kitchen Aide Grinder



Home grown is WHOLE GRAIN

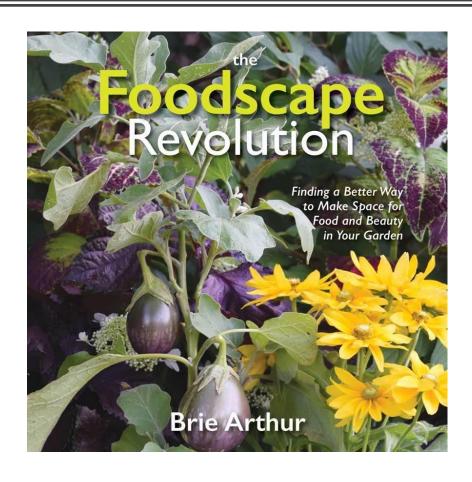


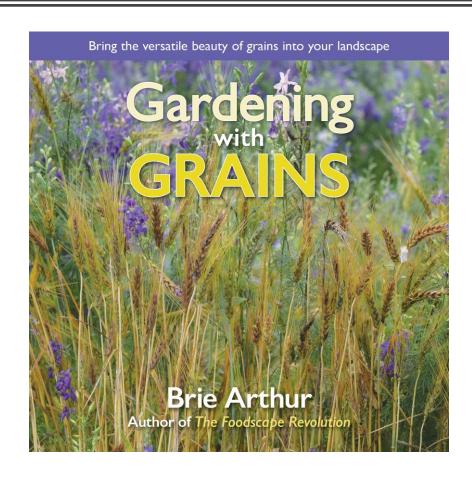


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