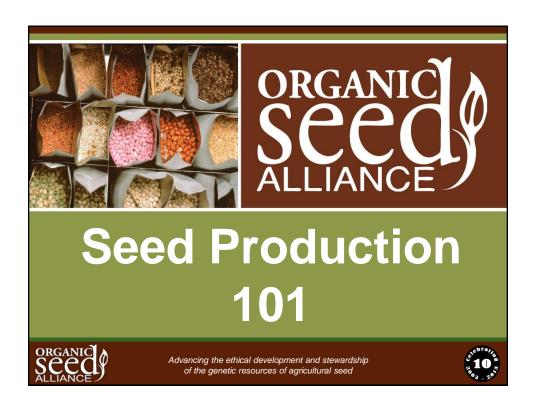
Welcome to the webinar!

- The webinar will start at the top of the hour.
- Find a handout of the slides in the "handouts" section of your gotowebinar control panel.
- To type in a question, use the question box on your control panel.
- The webinar is being recorded and you can find it and additional resources in our archive within the next 2 weeks at http://articles.extension.org/pages/74451 and on the eOrganic YouTube channel













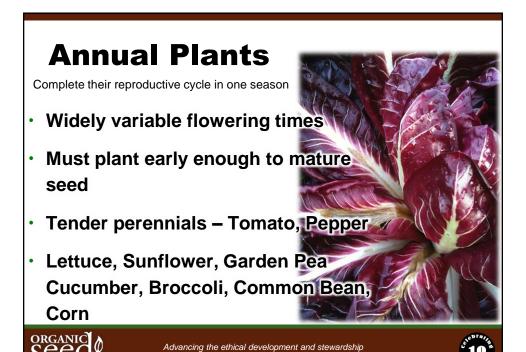
Which seed crops can you handle?

- Isolation
- How many can you grow?
 - Multiples of same species
- Integrating into existing system
- Harvest time demands
- Additional equipment or tools required?





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of the genetic resources of agricultural seed

Biennial Plants

Complete their reproductive cycle in two seasons

- Vegetative and storage stages
- Vernalization: 8 10 wks @ < 50% F
- Plant for optimum over-wintering size and condition
- Expect to lose some during winter
- Carrot, Beet, Cabbage, Celery, Onions,
 Parsnip, Swiss Chard, Turnip



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Pollination Systems Selfers

- Biological mechanisms to ensure selfing
 - Always have perfect flowers
 - Anthers and stigma in close proximity
 - Often with petals that remain closed
 - e.g. Fabaceae family (garden beans and peas)
- Sometimes petals will open after sexual union
 - e.g. Asteraceae family (lettuce, endive)





Pollination Systems - Crossers

Biological mechanisms to ensure crossing

- Separation of male & female parts

- Self-incompatibility

- Temporal separation of sexual parts

- Showy flowers

Copious pollen producer





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Self & Cross-Pollinating Species Spectrum

SELFERS

CROSSERS

Peas Lettuce

Tomato Pepper

Squash

Umbels Brassicas Corn Chenopods

5 plants acceptable

12 plants minimum

60 plants minimum

200 + plants desirable

Selfers need minimum isolation

Crossers need much greater isolation





Planning your seed crops

- What can you grow?
- How much should you grow?
- Where can you grow it?
- · When to plant?





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What can you grow?

- Environment
- Isolation (crops and weeds)
- · Skill set
- Tools







How much should you grow?

- · Working backwards:
 - What is your market?
 - How much overage is possible?





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How much should you grow?

- · Working backwards:
 - Estimating yield
 - Best info: your own experience
 - Invest in R&D small contracts, trials







How much should you grow?

- · Working backwards:
 - Estimating yield
 - Best info: your own experience
 - Second best: local farmers, seed companies
 - Finally, Knott's Handbook





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Putting it together

Crop	Variety	# ordered	\$/#	total \$	est.yield/bed	beds needed	adjuste d	\$/bed
Arugula	х	600	\$35.00	\$21,000.00	15	40.0	40.0	\$525.00
Carrot	х	100	\$100.00	\$10,000.00	12	8.3	8.5	\$1,200.00
Chard	х	50	\$30.00	\$1,500.00	20	2.5	2.0	\$600.00
Collard	х	100	\$45.00	\$4,500.00	20	5.0	5.0	\$900.00
Cosmos	х	25	\$75.00	\$1,875.00	10	2.5	3.0	\$750.00
Eggplant	х	5	\$200.00	\$1,000.00	3	1.7	2.0	\$600.00
Fennel	х	3	\$100.00	\$300.00	15	0.2		\$1,500.00
Lettuce	х	25	\$65.00	\$1,625.00	7	3.6	4.0	\$455.00
Lettuce	х	25	\$65.00	\$1,625.00	7	3.6	4.0	\$455.00
Lettuce	х	15	\$65.00	\$975.00	7	2.1	2.0	\$455.00
Lettuce	х	10	\$100.00	\$1,000.00	7	1.4	2.0	\$700.00
Melon	х	25	\$50.00	\$1,250.00	6	4.2	4.0	\$300.00
Mustard	х	100	\$35.00	\$3,500.00	20	5.0	5.0	\$700.00





Where can you grow it?

- Isolation requirements?
- Crop rotations





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Where can you grow it?

- Isolation requirements?
- Crop rotations
- Irrigation planning







Putting it all together — field maps 1 2 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 1 3 5 6 7 8 9 1

When to plant?

- · Working backwards
- · Critical times:
 - Flowering dry, correct temps







When to plant?

- Working backwards
- · Critical times:
 - Flowering dry, correct temps
 - Harvest before rains and frost
- Flexibility in planting date? Pick the best time, not the earliest





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Additional Resources

Seed Saving Guide: http://seedalliance.org/publications/seed-saving-guide-gardeners-farmers/

Climate Guide: https://seedalliance.org/publications/climatic-considerations-for-seed-crops-guidelines-and-field-trainings-for-organic-and-specialty-vegetable-seed-producers/

Seed Crop Record: http://seedalliance.org/publications/seed-crop-record/ Harvest and Handling Record: http://seedalliance.org/publications/harvest-handling-seed-record/

Field Activities Worksheet:

http://www.eorganic.info/sites/eorganic.info/files/u461/FieldActivitiesWorksheet.xlsx **Example Crop Plan:**

http://www.eorganic.info/sites/eorganic.info/files/u461/ExampleCropPlan.xlsx

Tourne Sol Seed Cooperative Sample Brassica rapa seed budget:

http://www.eorganic.info/sites/eorganic.info/files/u461/Brassica%20Rapa%20Seed%20Budget%20for%20OSA.xls





- Find all upcoming and archived webinars and additional resources at http://articles.extension.org/pages/74451 and on the eOrganic YouTube channel
- Have an organic farming question? Use the eXtension Ask an Expert service at https://ask.extension.org/groups/1668/ask
- We need your feedback! Please respond to an email survey about this webinar.
- Thank you for coming!



