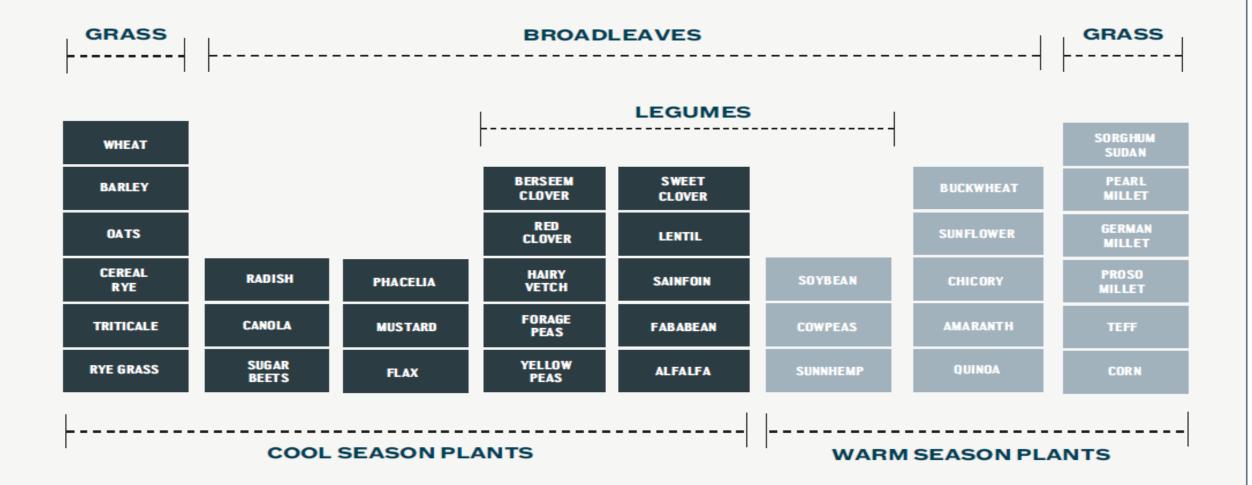




#### **PLANT DIVERSITY GUIDE**

COMMON PLANT SPECIES GROWN IN WESTERN CANADA AS COVER CROPS

VERSION 1.0

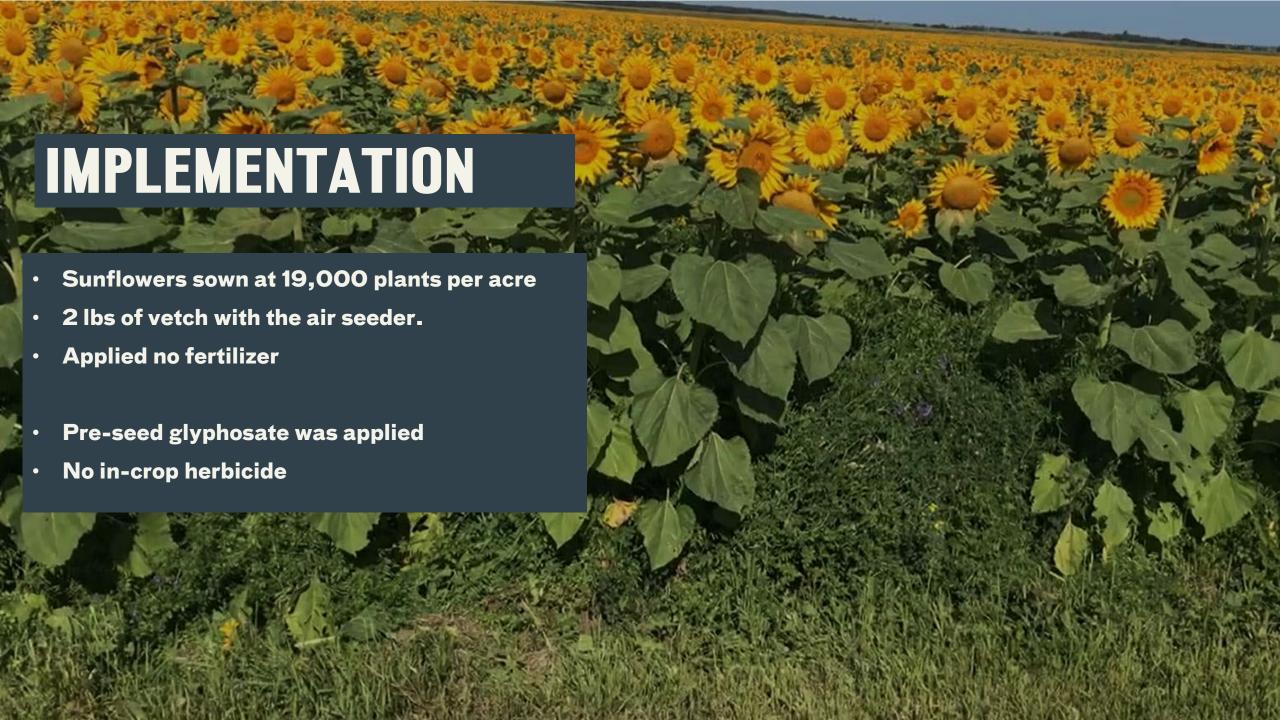


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### THE IDEA

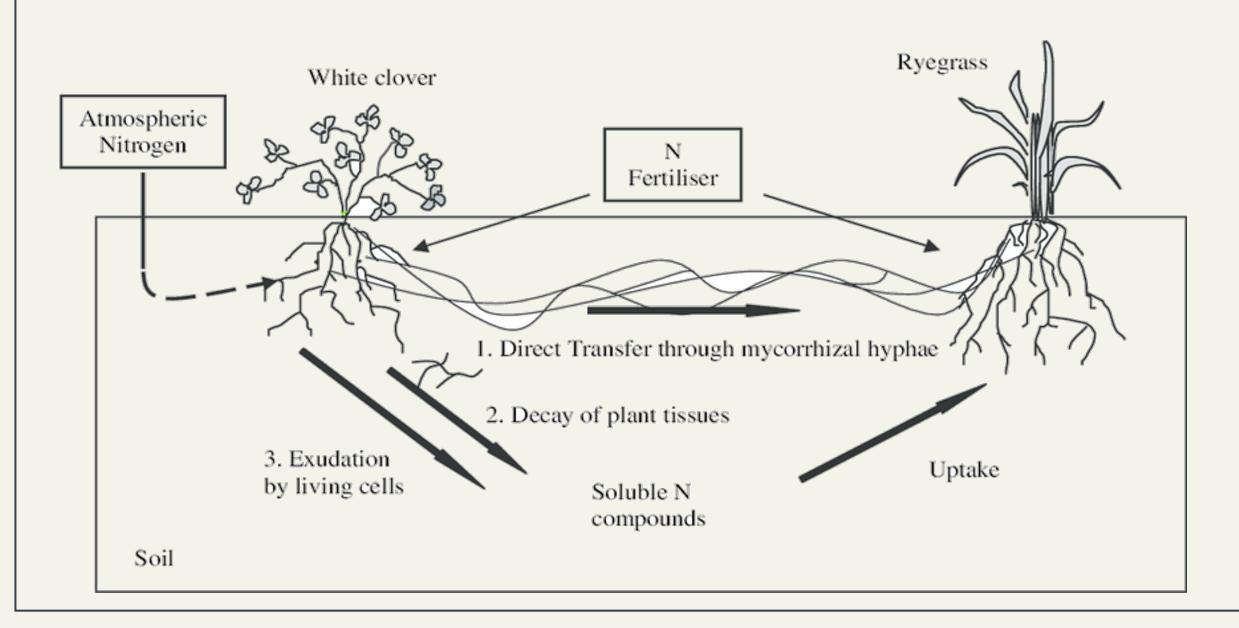
- Use vetch as a protein source for cattle to balance diet after sunflowers have been harvested
- Create more biomass
- Lower synthetic nitrogen need
- Utilize wasted sunlight
- Keep living root in the soil once corn has shutdown
- Extend grazing season





COVERS № CO.

Paynel, F., Lesuffleur, F., Bigot, J. et al. A study of 15N transfer between legumes and grasses. Agron. Sustain. Dev. 28, 281–290 (2008).



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**Table1.** Carborn to nitrogen ratios of crop residues and other organic materials

Material	C:N Ratio
rye straw	82:1
wheat straw	80:1
oat straw	70:1
corn stover	57:1
rye cover crop (anthesis)	37:1
pea straw	29:1
rye cover crop (vegetative)	26:1
mature alfalfa hay	25:1
Ideal Microbial Diet	24:1
rotted barnyard manure	20:1
legume hay	17:1
beef manure	17:1
young alfalfa hay	13:1
hairy vetch cover crop	11:1
soil microbes (average)	8:1



# C:N RATIO







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## **OPEN DISCUSSION**

**Best Practises**