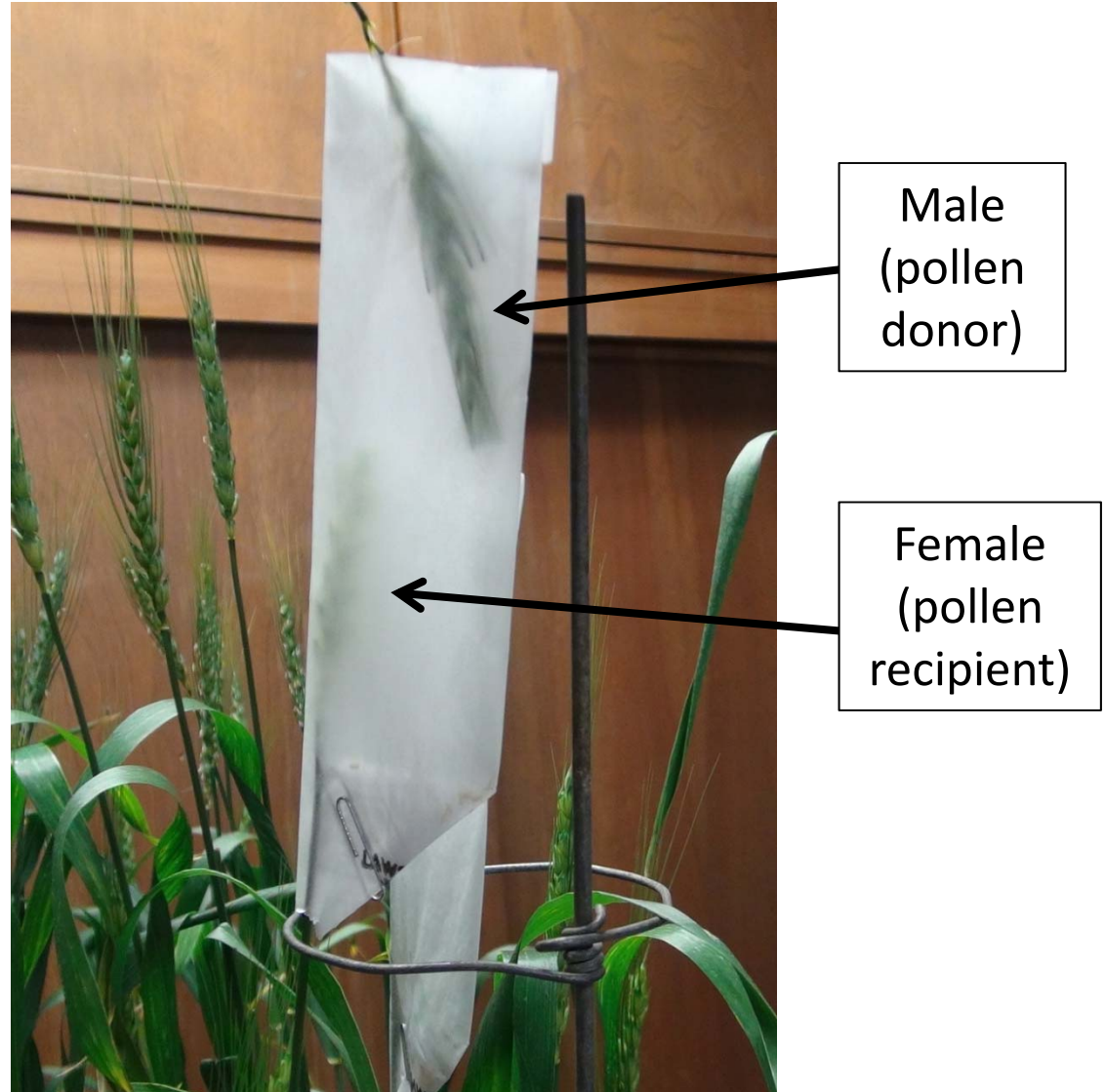




Wheat and oat crosses are done at the University of Manitoba or AAFC





Seed harvested
(F1) is planted in
the greenhouse
(50 seeds/cross
→ ~100 g)

F2 seed planted in the
field
(100 g/cross → ~3500 g)



- Each farmer is provided with 3 F3 populations
- Plot size: 10 – 20 m² (7,000 seeds provided/pop)



Seeding:
Plots seeded with
a garden seeder,
modified seeder or
by hand

Farmers involved in parental selection



Wheat and oat populations available in 2016

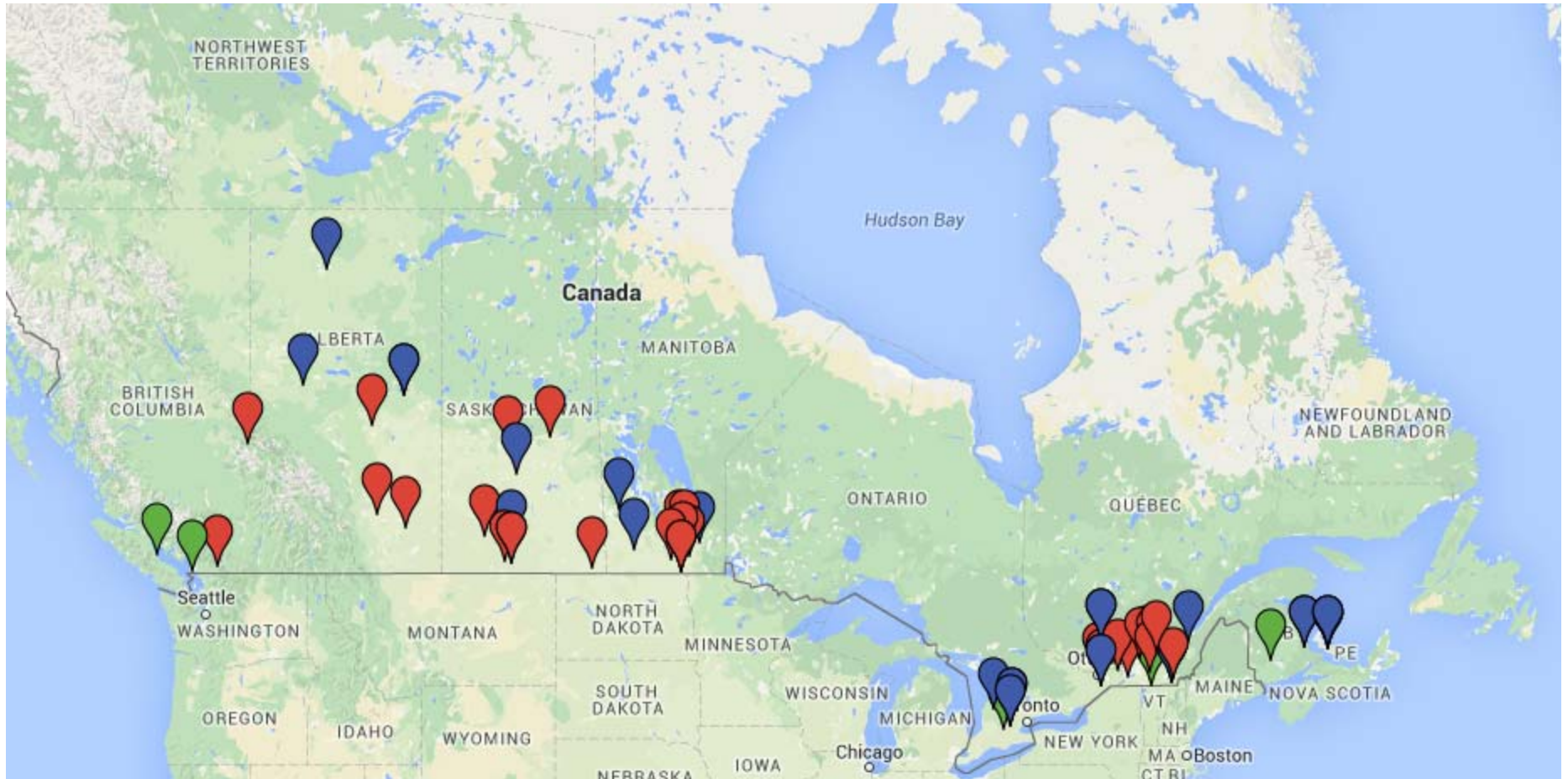
Name	Pedigree
PA01A	CDC Kernen / 08NW109
PA05A	Cadillac / Carberry
PA10A	ERA131-R3 / Sable
PA12	AAC Scotia / Norwell
PA13	Helios / Touran
PA14	Unity / Red Fife
PA16A	Red Fife / McKenzie
PA02	Goodeve/Superb
PA17	Superb/Helios
PB01	Park/Pembina
PB02	AC Walton/AAC Scotia
PB03	AAC Scotia/Acadia
PB05	BW 487/Unity
PB06	AC Barrie/Acadia
PB08	Glenn/Carberry
PB09	Champlain/Brandon
PB10	Shaw/Unity
PB11	Celtic/AC Walton
PB15	Brandon/Unity

Name	Pedigree
PA02	CDC Orrin/07P02-OCA
PA04	OT8001/05P14-OA01
PA06	Gehl/05P14-OA01
PC01	Prescott/Gehl
PC02	Souris/HiFi
PC03	OT8001/Alymer
PC04	Cantal/Alymer
PC05	Summit/Jordan
PC07	Cantal/05P14-OA01

Populations available:

- 19 wheat
- 10 oat

On-farm breeding locations 2015



3 years of on-farm selection



Replicated trial



Potato crosses: Benoit Bizimungu and Duane Falk



Participatory plant breeding

Present

Year	# of Farmers			# of Populations		
	Wheat	Oat	Potato	Wheat	Oat	Potato
2011	11	n/a	n/a	32	n/a	n/a
2012	15	9	n/a	43	27	n/a
2013	23	13	6	65	39	9
2014	29	22	6	80	71	9
2015	36	28	6	106	76	9
2016	26	30	17	78	72	19