Appendix

Use of dominance analysis in selecting the best cropping technique

based on long term agronomic experiments

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Appendix Table 1. Average yield and standard deviations in *Prova64* for the years considered (Table 1).

		Wheat		Maize	
		mean	st.dev.	mean	st.dev.
Cont	Ctrl	2.41	0.94	2.70	2.02
	M	3.79	1.44	6.45	2.89
	NP1	5.46	1.16	7.76	2.41
	NP1-M	6.04	1.10	8.33	2.22
	NP2	6.26	1.14	8.63	2.17
	NP2-M	6.48	1.33	9.18	2.14
Rot2	Ctrl	3.89	1.40	5.99	2.17
	M	4.67	1.60	9.25	1.87
	NP1	6.06	1.10	9.19	1.98
	NP1-M	6.27	1.32	10.50	2.24
	NP2	6.53	1.28	9.90	2.08
	NP2-M	6.49	1.38	10.24	2.31
Rot9	Ctrl	2.74	1.02	8.05	2.17
	M	4.10	1.32	9.26	2.30
	NP1	4.68	1.20	9.45	2.36
	NP1-M	5.31	1.16	9.97	2.42
	NP2	5.18	1.30	9.92	2.19
	NP2-M	5.66	1.29	9.83	2.49

**Appendix Table 2. Average yield and standard deviations in *Prova29* for the years considered (Table 1).**

|		Wheat		Maize	
		mean	st.dev.	mean	st.dev.
Ctrl	N0	3.20	1.28	7.32	2.10
	N100	6.04	1.25	9.51	2.18
	N200	6.68	1.12	10.59	2.13
	N300	6.48	1.18	10.20	2.13
FYM	N0	5.81	1.63	10.62	2.11
	N100	7.04	1.23	10.74	2.28
	N200	6.74	1.16	10.66	2.08
	N300	6.26	1.28	10.72	2.47
Res	N0	5.21	1.90	9.71	2.03
	N100	6.74	1.27	10.48	2.10
	N200	6.62	1.30	10.68	2.02
	N300	6.20	1.32	10.69	2.16
Slur	N0	3.53	1.48	7.81	2.13
	N100	6.35	1.39	9.96	2.00
	N200	6.56	1.33	9.93	2.12
	N300	6.51	1.23	10.39	1.90

Appendix Table 3. Average yield and standard deviations in *Prova31* for the years considered (Table 1).

Winter crops		Wheat yield	
		mean	st.dev.
Wheat	25-25	3.80	0.97
	50-25	3.81	0.94
	DT-RH	3.59	0.96
Barley	25-25	4.43	1.09
	50-25	4.57	0.80
	DT-RH	4.13	1.01
legumes	25-25	4.53	0.86
	50-25	4.53	0.86
	DT-RH	4.55	0.79
Oat	25-25	4.42	0.90
	50-25	4.58	0.91
	DT-RH	4.36	1.13
Triticale	25-25	3.95	0.89
	50-25	3.91	0.89
	DT-RH	3.56	0.98

Summer crops		Wheat yield	
		mean	st.dev.
Maize	25-25	4.90	0.91
	50-25	5.00	0.86
	25-RH	4.90	0.78
Sorghum	25-25	4.97	0.87
	50-25	5.02	0.95
	25-RH	4.79	0.87
Soybean	25-25	5.07	0.84
	50-25	5.06	0.95
	25-RH	4.82	0.82
Sugarbeet	25-25	5.06	0.89
	50-25	5.04	0.95
	25-RH	4.92	0.97
Sunflower	25-25	4.88	1.00
	50-25	5.06	0.96
	25-RH	4.99	0.71
Rot4	25-25	5.25	0.88
	50-25	5.13	0.85
	25-RH	5.15	0.76

Appendix Figure 1. Yield cumulated distributions for *Prova64*.

Rotation	Maize	Wheat
Cont		
Rot2		
Rot9		
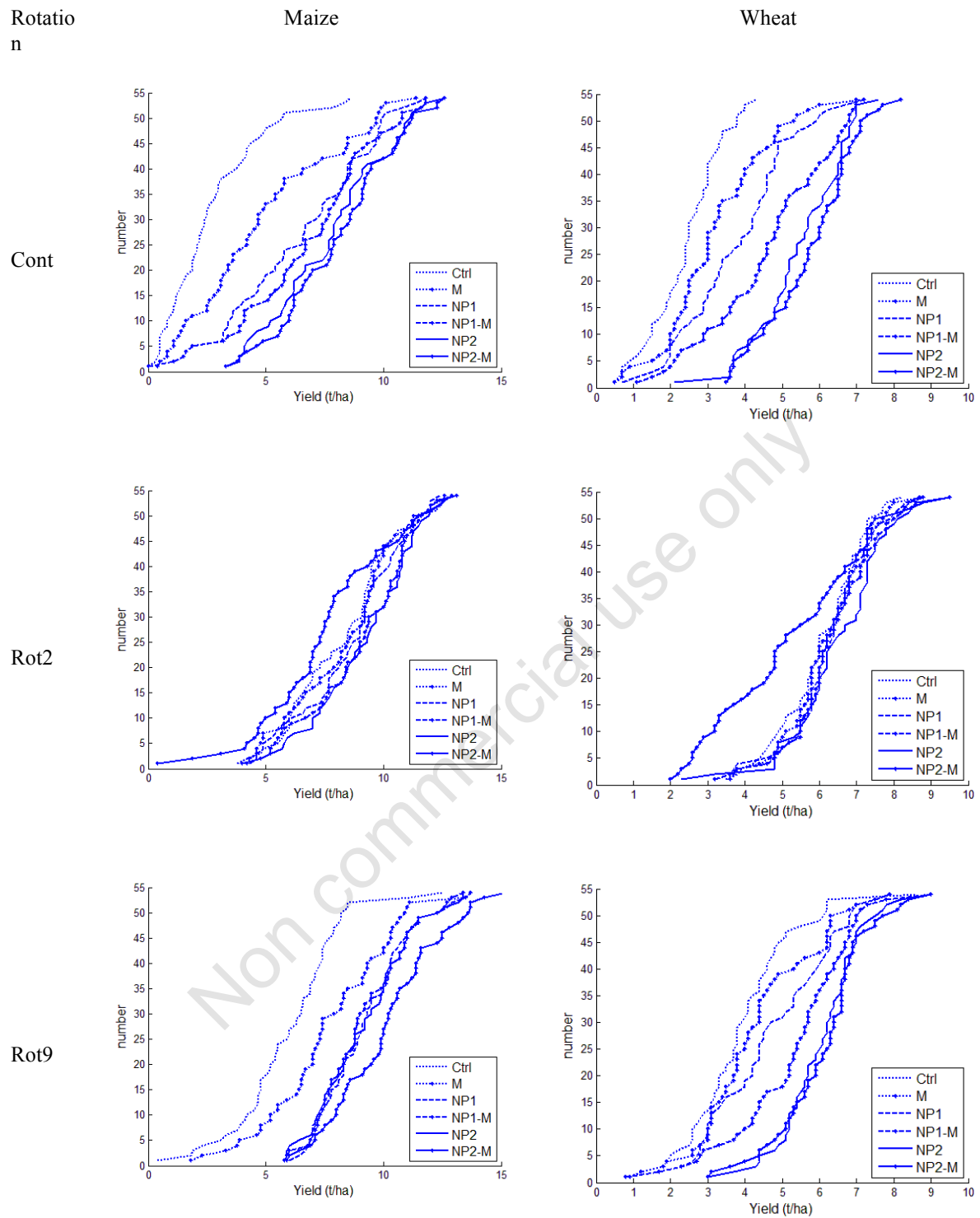
Appendix Figure 2. Yield cumulated distributions for *Prova29*.

Rotation	Maize	Wheat

Ctrl

FYM

Res
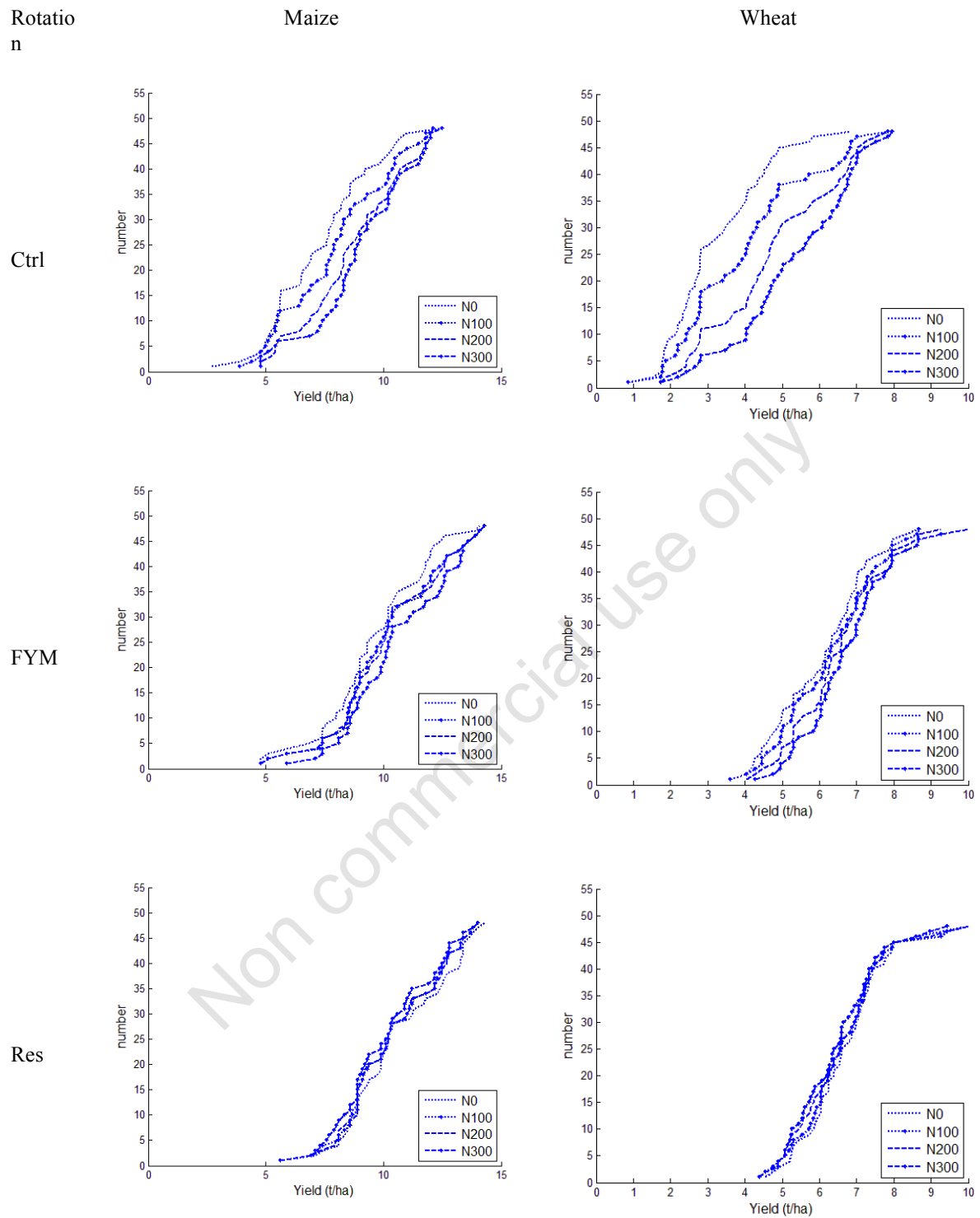
Slur
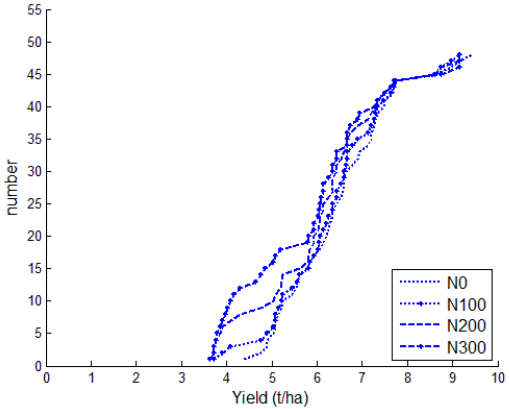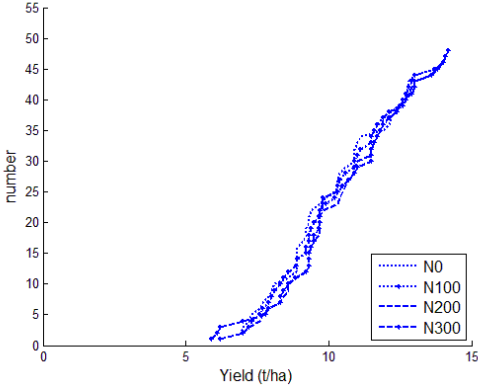
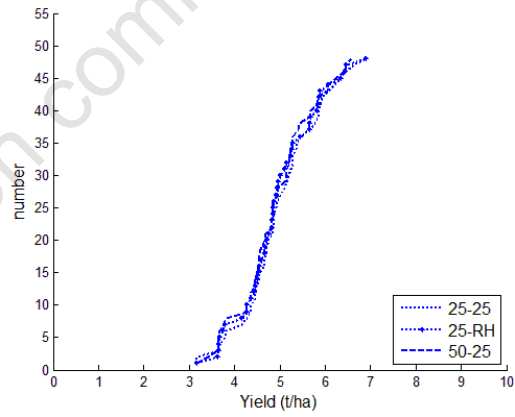**Appendix Figure 3. Yield cumulated distributions for *Prova31*.**
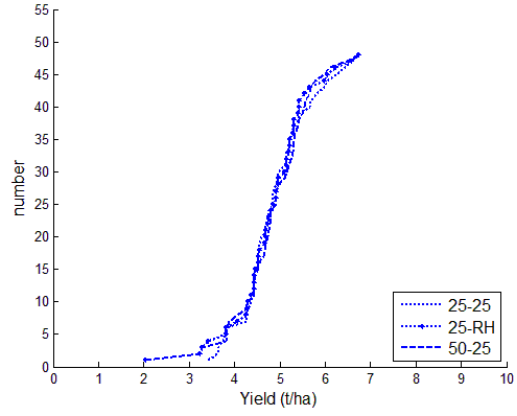
Winter Precession
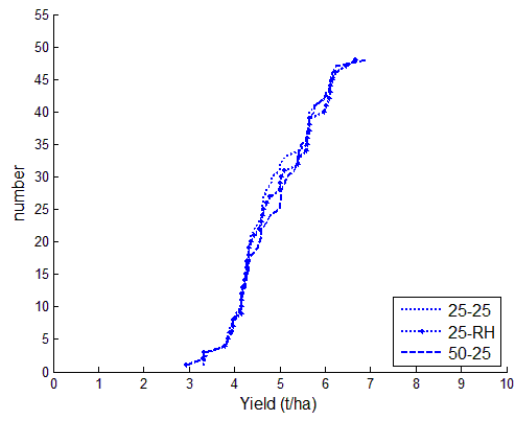
Barley
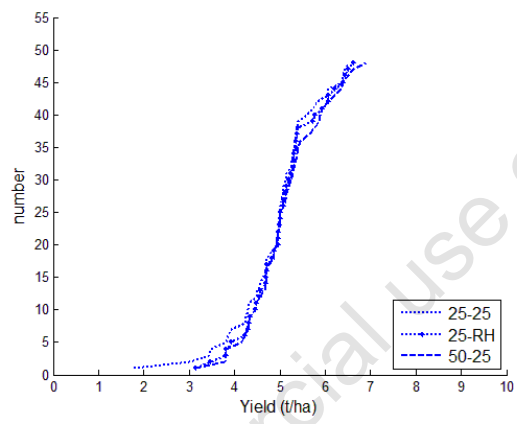

Oat

Triticale
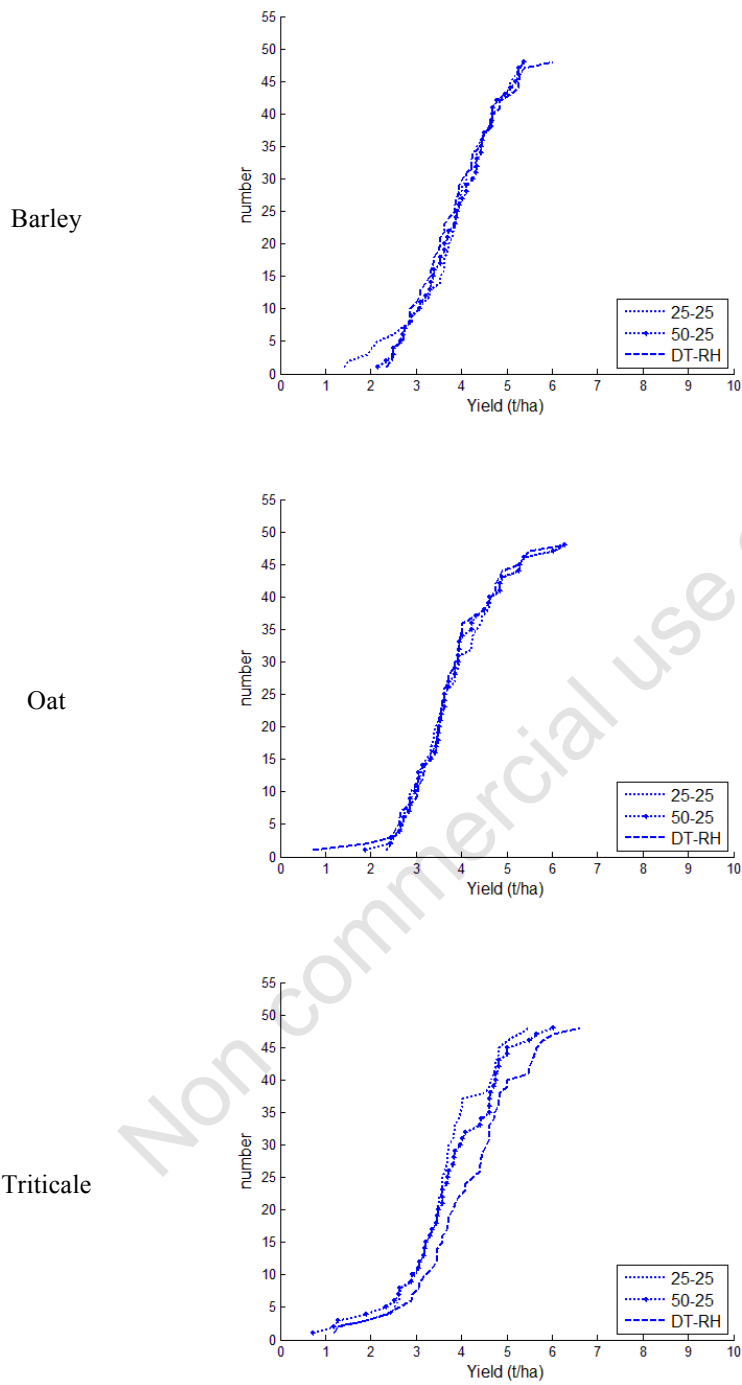
Wheat
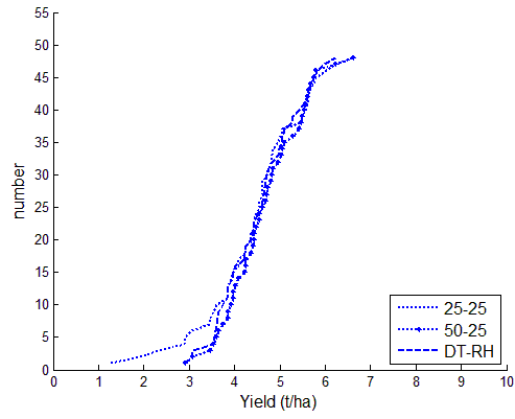
legumes
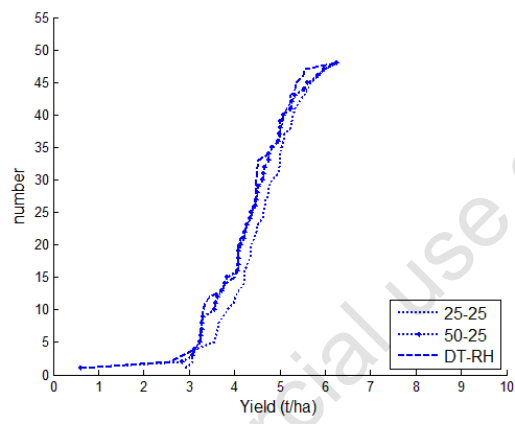
Summer Precession

Maize

Sorghum

Soybean
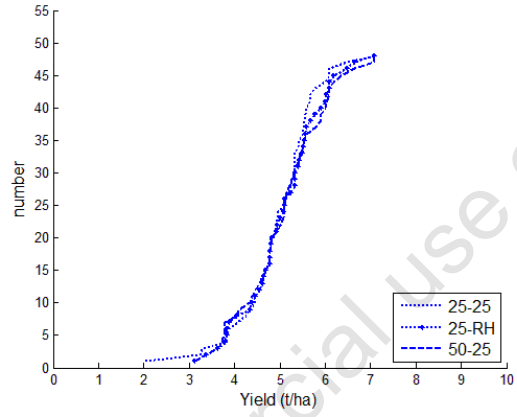
SugarBeet

Sunflower

Rot4