

Maize Variety & Weed control Update 2010

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Presentation Outline

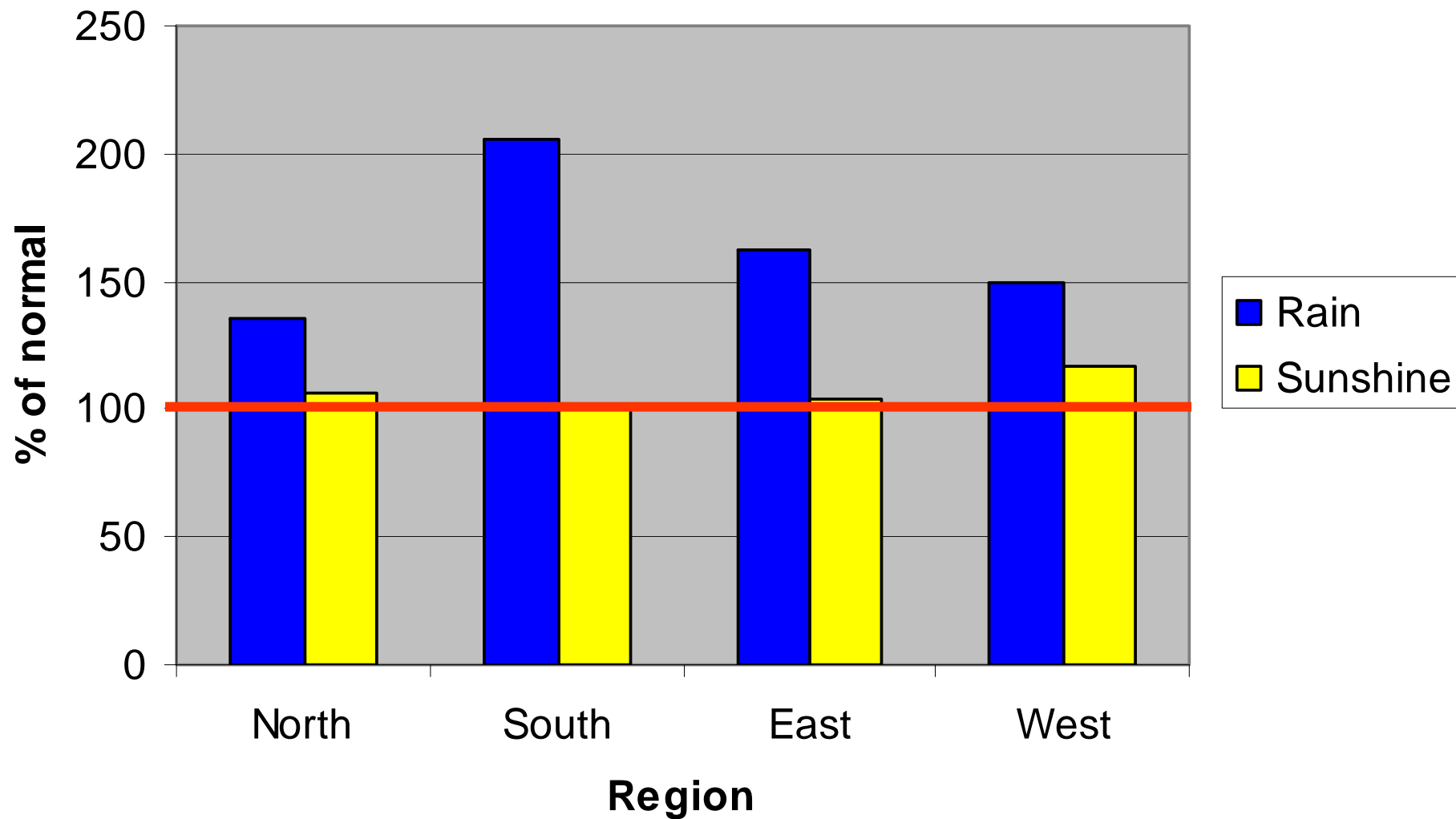
- 2009 Maize Season
- Maize Varieties for 2010
- Weed Control Trial Results 2009
- Weed Control Options 2010
- Summary

2009 Season

- Sowing delayed end April – June Bank Hol.
- Poor weather at sowing
- Sunshine - June; Wet - July & August
- Smash & Grab Harvest

- 2009 11-12 t dm/ha, DM 26% Starch 26%

2009 Summer



Uncovered Trials: Performance of control varieties.

Climate in individual years can have a big influence on yield and starch content where varieties are grown in the open.

	Yield _(of DM)	Dry Matter % at harvest date.	Starch %
2009	15.10	32.40	-
2008	11.72	29.45	24.66
2007	14.81	29.71	20.07
2006	17.37	36.41	33.03
2005	16.22	33.06	26.83
2004	16.56	35.22	27.65
2003	15.04	29.34	24.11

Source DAFF

Uncovered Trials: 2009 DAFF List & 2009 Trial Data

Source DAFF	Yield (of Dry Matter)	
	RL	2009 Trials
<i>Controls</i> →	14.6	15.1
Algans (R)	103	--
Andante (R)	99	98
Avenir (R)	102	93
Fergus (R)	105	109
Loft (R)	99	--
Nescio (PR-3)	103	--
Nimrod (R)	103	100
Tassilo (R)	100	93

Uncovered Trials: 2009 DAFF List & 2009 Trial Data

Source DAFF	Yield (of Dry Matter)		Dry Matter %	
	RL	2009 Trials	RL	2009 Trials
<i>Controls</i> →	14.6	15.1	31.9	32.4
Algans (R)	103	--	93	--
Andante (R)	99	98	100	99
Avenir (R)	102	93	105	99
Fergus (R)	105	109	97	102
Loft (R)	99	--	95	--
Nescio (PR-3)	103	--	85	--
Nimrod (R)	103	100	98	97

Uncovered Trials: 2009 DAFF List & 2009 Trial Data

Source DAFF	Yield (of Dry Matter)		Dry Matter %		Starch %	
	RL	2009 Trials	RL	2009 Trials	RL	2009 Trials
<i>Controls</i> →	14.6	15.1	31.9	32.4	25.9	--
Algans (R)	103	--	93	--	95	--
Andante (R)	99	98	100	99	101	--
Avenir (R)	102	93	105	99	100	--
Fergus (R)	105	109	97	102	100	--
Loft (R)	99	--	95	--	99	--
Nescio (PR-3)	103	--	85	--	100	--
Nimrod (R)	103	100	98	97	97	--

Uncovered Trials:

Varieties which have completed 3 years in trials ('07, '08 & '09).

	Relative Yield DM		
	'09	'08	'07
Acclaim	89	95	96
Beethoven	106	114	116
Katy	103	110	103

Promising varieties for the future.

Source DAFF

Plastic covered Trials: Performance of control varieties.

In the plastic covered production, climate in individual years influences yield, but to a lesser extent than in uncovered production.

Source DAFF	Yield (of DM)	Dry Matter % at harvest date.	Starch %
2009	15.04	32.65	-
2008	15.14	33.16	30.63
2007	15.78	34.86	23.69
2006	19.83	40.50	35.14
2005	17.00	38.27	34.36
2004	18.27	33.48	28.86
2003	15.62	35.05	29.60

Plastic Covered Trials:

2009 Rec. List Varieties & 2009 trial data

	Yield (of Dry Matter)	'09 Trials	Dry Matter %	'09 Trials	Starch %
<i>Controls</i> →	16.9	15.0	36.2	32.7	29.8
Algans	(93)	--	(103)	--	(98)
Aurelia (PR-1)	101	90	103	109	104
Benicia	(98)	--	(79)	--	(96)
Justina	106	104	90	96	100
Schumi	101	96	108	104	101
Surprise	103	99	112	116	106

Source DAFF

Plastic Covered Trials:

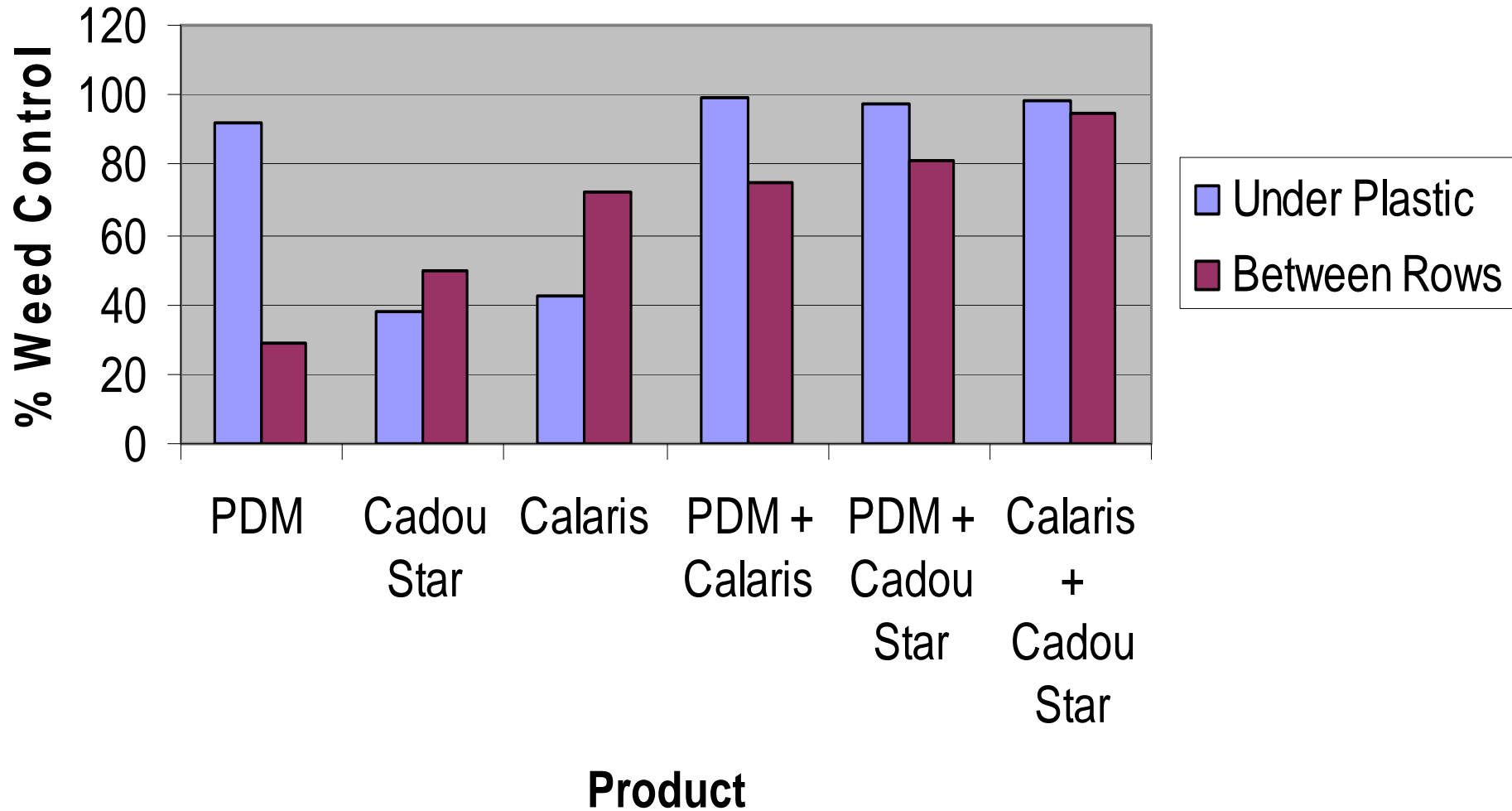
Varieties which have completed 3 years in trials ('07, '08 & '09).

	Relative Yield DM		
	'09	'08	'07
Piazza	118	113	114
Tekni	112	107	103

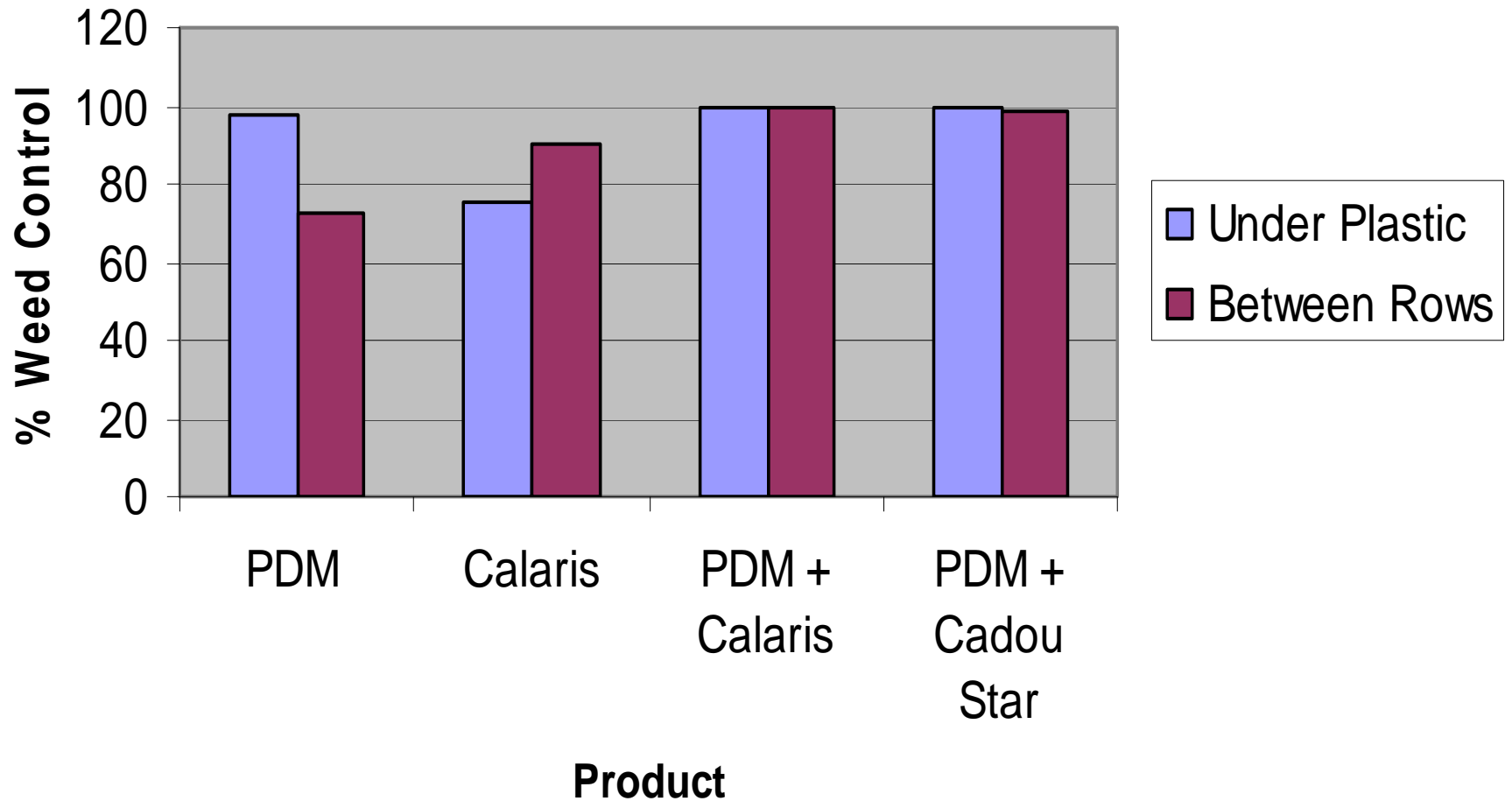
Promising varieties for the future

Source DAFF

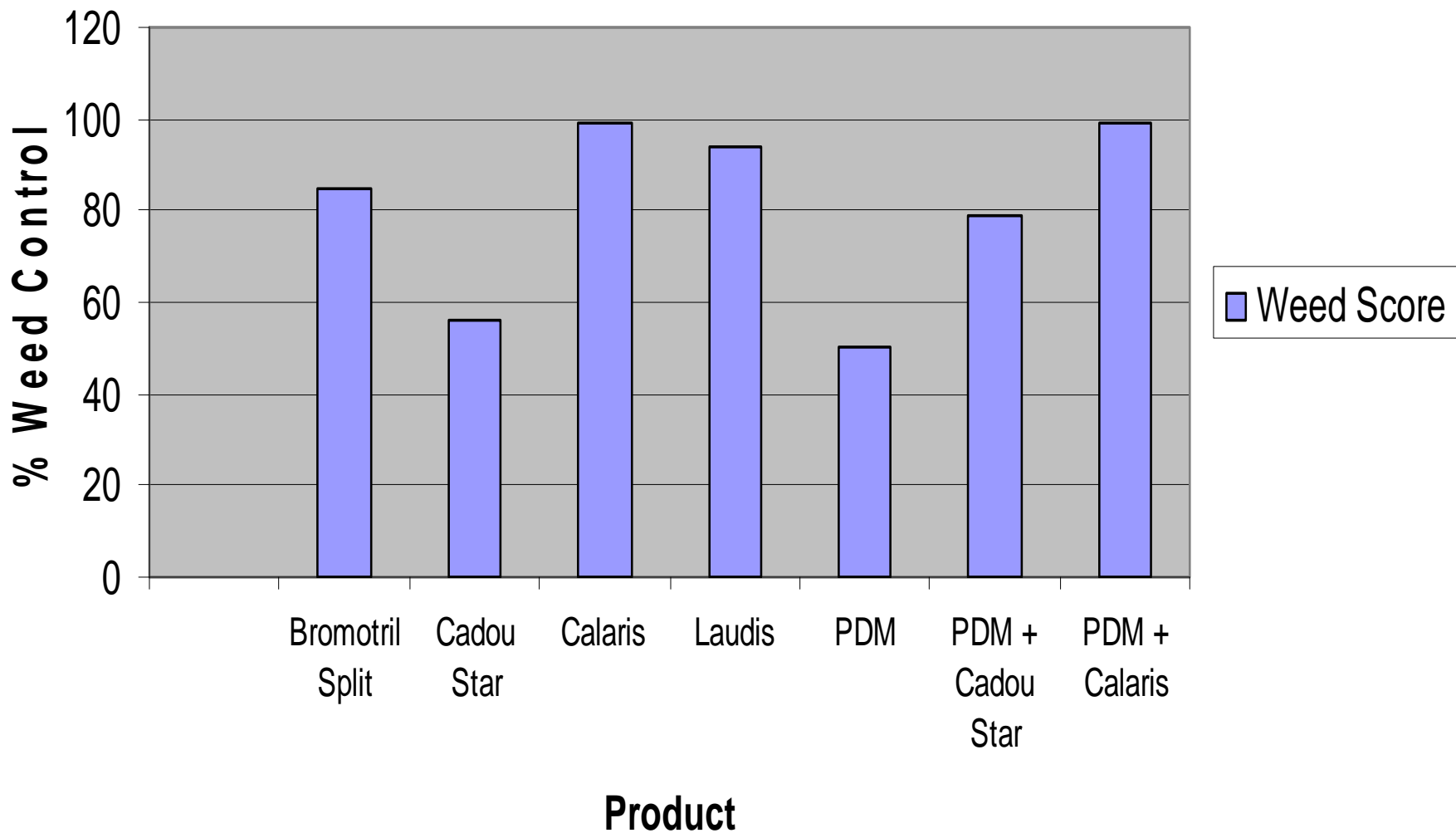
Knockbeg Plastic Trial (Assessed 15/07/09)



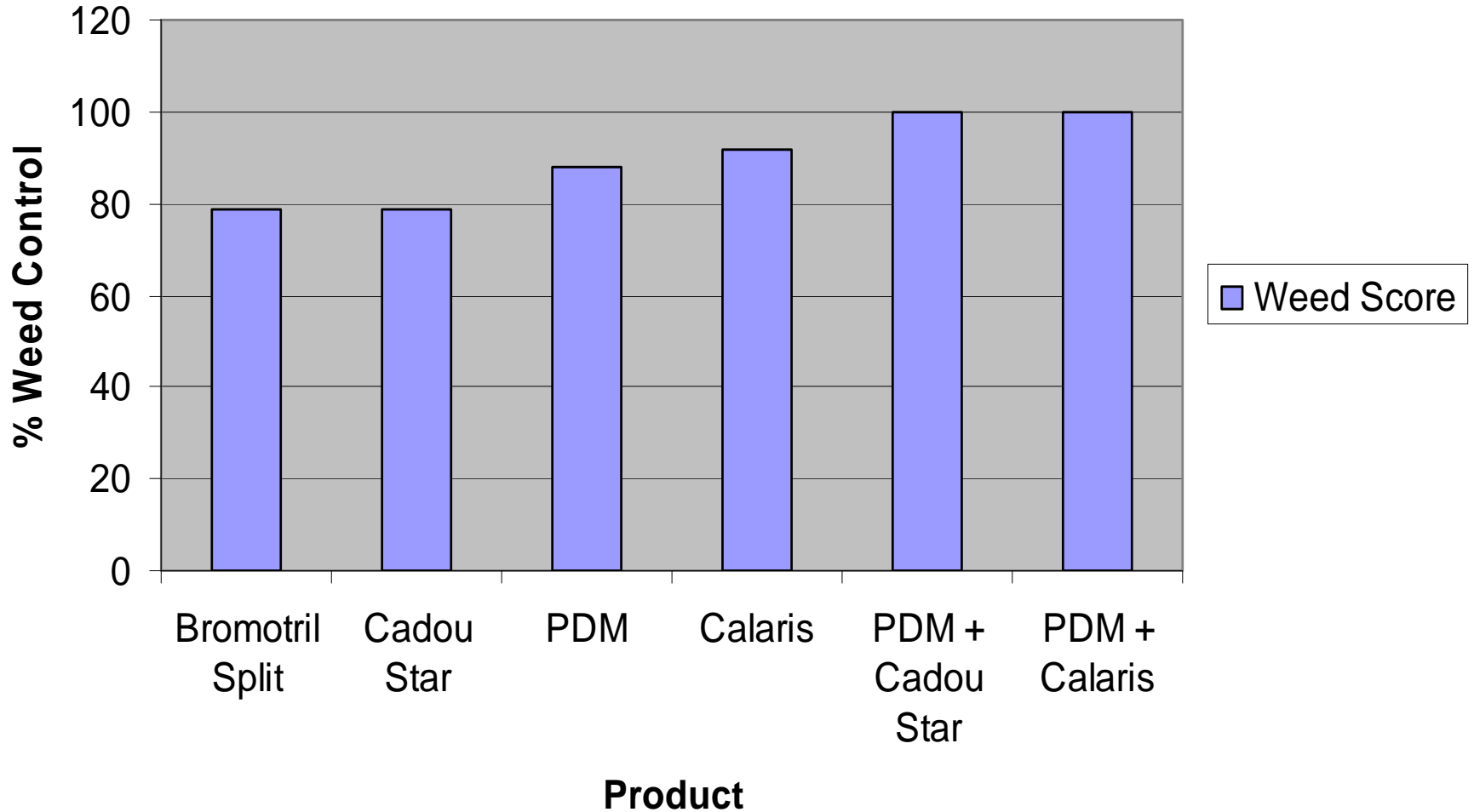
Kildalton Plastic (Assessed 29/07/09)



Knockbeg Open Trial



Kildalton Open



Pre-emergence options 2010

Product	Rate/ha	Comments
Calaris	1.0 - 1.5L	Wide weed spectrum from emergence to 6 leaf stage of Weeds. (6 wks residual)
Cadou Star	0.85 kg/ha	The Cadou Star label recommends a tank mix with pendimethalin if used under plastic.
PDM 330 Prop 330 (330 g ai/l)	4.5 L 4.5 L	Apply within 5 days of sowing. Good on Orache, Black nightshade, Knotgrass and nettles.
Stomp Aqua (455 g ai/l)	3.3 L	As above for weed spectrum. BASF claim reduce staining.

Post-emergence options 2010

Product	Rate/ha	Comments
Bromoxynil	1.5-2.5 L	Timing maize 2-9 leaves, optimum 3-4 leaves.
Calaris	1.0 - 1.5 L	Wide weed spectrum from emergence to 6 leaf stage of Weeds. (6 wks residual)
Callisto	0.75 – 1.5 L	Can be applied up to 8 leaf stage of the crop. Mainly contact activit.
Fluroxypyr (Various)	Depends on product used	Follow-up treatment mainly Vol Pot, Docks, nightshade
PDM 330 Prop 330 Stomp Aqua	4.5 L 4.5 L 3.3 L	Apply before 4 leaf stage. Good on Orache, Black nightshade, Knotgrass and nettles.
Titus	40-50 g	Use for grasses and BLW up to 4 collar stage of maize (6 leaves unfolded).

Agronomy

- Soil Sample S4 (Trace elements + Lime!!)
- Identify weeds present
- Don't close the gate
- Treat disease if applicable (flusilazole)

Helmithosporium



Helmithosporium



Best wishes for 2010 which will hopefully be a good year for maize production.

Thank You