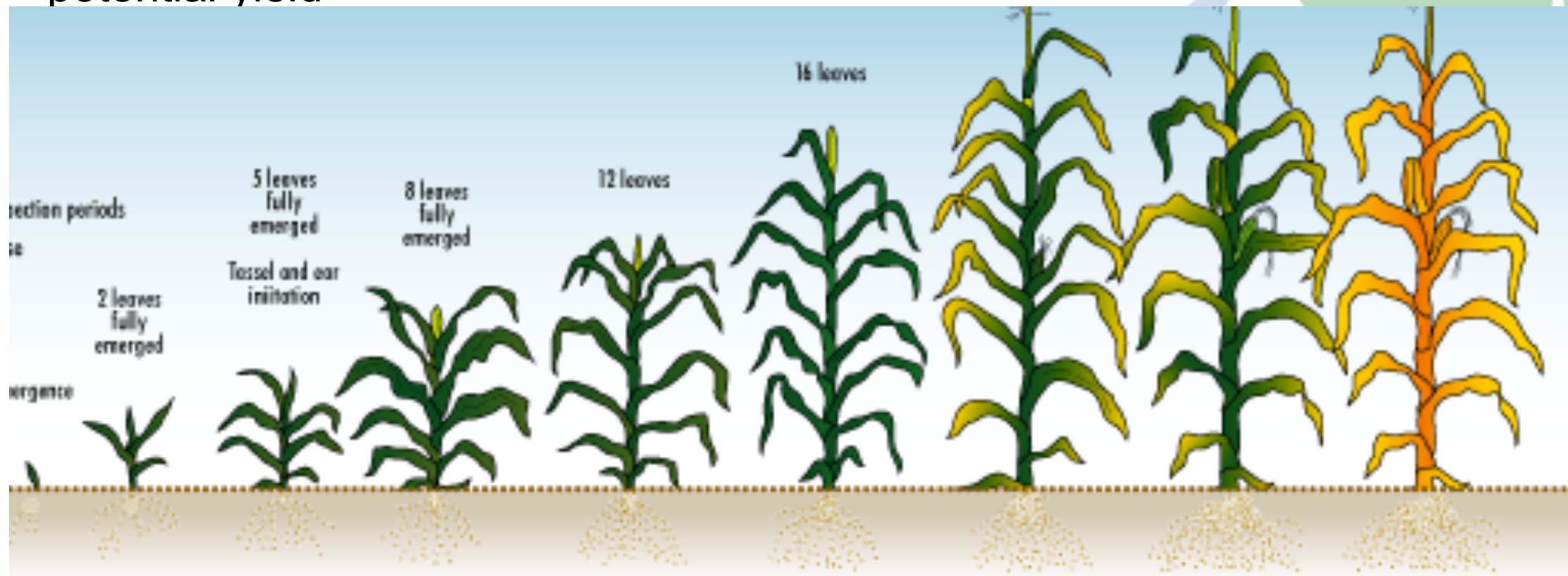




Efficie-N-t 28 trials in maize 2012

- **Objective : How can we match the crop's nitrogen requirement in season?**
 - 35% of the crop's nitrogen requirements are needed after tassling
 - Nitrogen deficiency at this stage will result in translocation of nitrogen from the leaves to the grain sites and loss of green leaf and failure to meet the crop's potential yield





Efficie-N-t 28 trials in maize 2012

Objective: To measure the yield response in maize from an application of 25kg of Efficie-N-t 28 applied at the 8-12 leaf growth stage

Results:

CHRISTLETON MAIZE TRIAL 14.10.2012								
WITH NITROGEN								
	PLANTS	WEIGHT	COB WEIGHT	YIELD T/A	COB YIELD T/A	AV PLANT WEIGHT	AV COB WEIGHT	%COB/ PLANT
CONTROL	23	13.48	4.76	24.192	8.542	0.586	0.206	35.3
ZINC	25	12.76	4.94	22.900	8.865	0.510	0.197	38.7
UREA POLYMER	26	15.60	5.56	27.997	9.969	0.600	0.213	35.6
UREA POLYMER + ZN	25	12.88	4.64	23.115	8.327	0.515	0.185	36.0
WITHOUT NITROGEN								
CONTROL	27	11.64	4.68	20.890	8.399	0.431	0.173	40.2
ZINC	26	12.64	4.96	22.684	8.901	0.486	0.190	39.2
CONTROL	25	11.64	4.84	20.890	8.686	0.465	0.193	41.5
UREA POLYMER	26	13.56	5.26	24.336	9.440	0.521	0.202	38.8



Efficie-N-t 28 trials in maize 2012

EFFICIE-N-T 28 MAIZE TRIAL EXTER SITE 2012									
CONTROL	PLANTS	WEIGHT KGS	COB WEIGHT KGS	YIELD T/A	COB YIELD T/A	AVE PLANT WEIGHT KGS	AVE COB WEIGHT KG	% COB/PLANT	
SAMPLE 1	23	7.05	3.05	12.684	5.487	0.336	0.145	43.26	
SAMPLE 2	23	9.97	4.26	17.937	7.664	0.415	0.178	42.73	
SAMPLE 3	26	9.86	4.45	17.740	8.006	0.411	0.185	45.13	
SAMPLE 4	23	8.000	3.73	14.393	6.711	0.333	0.155	46.63	
AVERAGE	23.75	8.72	3.873	15.689	6.967	0.363	0.161	44.41	
TREATED									
SAMPLE 1	24	11.44	5.05	20.582	9.086	0.497	0.220	44.14	
SAMPLE 2	25	11.55	4.92	20.780	8.852	0.502	0.214	42.60	
SAMPLE 3	24	11.65	5.05	20.960	9.086	0.555	0.240	43.35	
AVERAGE	24.33	11.55	5.007	20.774	9.008	0.525	0.228	43.36	

Conclusion: Nitrogen from Efficie-N-t 28 applied at 8-12 leaf growth stage increased fresh weight yield across all sites by an average of 18%.



Efficie-N-t 28 trials in maize 2012

EFFICIE-N-T 28 MAIZE TRIAL BRIDGWATER SITE 2012									
CONTROL	PLANTS	WEIGHT KGS	COB WEIGHT KGS	YIELD T/A	COB YIELD T/A	AVE PLANT WEIGHT KGS	AVE COB WEIGHT KGS	% COB/PLANT	
SAMPLE 1	21	11.25	3.78	20.242	6.801	0.536	0.180	33.6	
SAMPLE 2	24	13.0	4.80	23.391	8.64	0.542	0.200	36.9	
SAMPLE 3	24	11.85	4.50	21.322	8.097	0.494	0.188	38.0	
AVERAGE	23	12.033	4.36	21.652	7.845	0.523	0.190	36.2	
TREATED									
SAMPLE 1	23	13.68	4.55	24.615	8.187	0.595	0.198	33.3	
SAMPLE 2	23	14.50	4.98	26.090	8.96	0.630	0.217	34.3	
SAMPLE 3	21	13.00	4.53	23.391	8.151	0.619	0.216	34.8	
AVERAGE	22	13.73	4.69	24.698	8.433	0.624	0.213	34.1	

