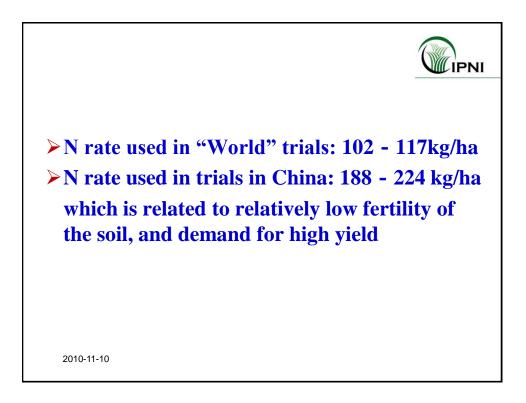
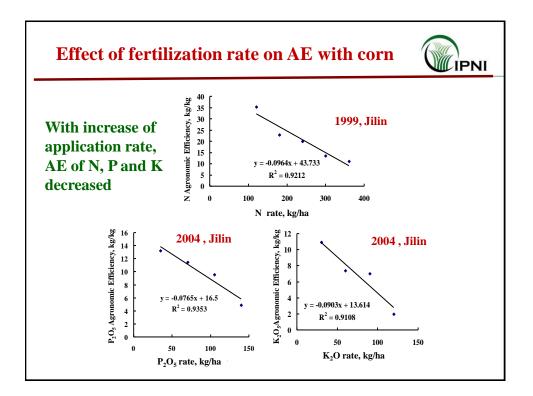


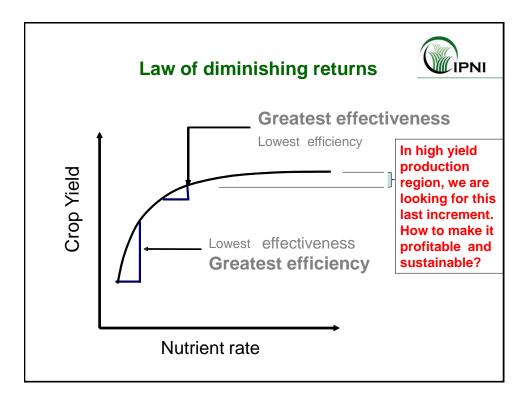
Region/crop	N rate	RE _{15N}	REN	PEN	AE _N	PFPN
ulat has de more taek w	kg/ha			kg/kg		
Research station to	rials (stat	ionary tr	eatment	plots) ¹	2	
Africa	139	0.37	0.63	23	14	39
Europe	100	0.61	0.68	28	21	50
America	111	0.36	0.52	28	20	50
Asia	115	0.44	0.50	47	22	54
Average		0.44	0.55	41	21	52
Maize (rainfed & irrigated)	123	0.40	0.65	37	24	72
Rice (irrigated)	115	0.44	0.46	53	22	62
Wheat (rainfed and irrigated)	112	0.45	0.57	29	18	45
On-farm studies	(non-stat	ionary tre	atment	plots)	and the second	the state
Maize, USA (rainfed & irrigated) ²	158	aultemuen	0.36	33	12	61
Maize, USA (irrigated) ³	142	Neights -	0.57	41	23	94
Maize, Indonesia (rainfed & irrigated) ⁴	200	esporte la conte	0.37	46	17	46
Rice in S, E and SE Asia (irrigated) ⁵	117		0.31	39	12	49
Rice in West Africa (irrigated) ⁶	106	- 14	0.36	47	17	46
Wheat in North India (irrigated) ⁷	134	e de n iled	0.34	32	11	44
E _{15N} – average N recovery efficiency measured	with the	5N isotone	dilution m	athod All c	other N us	e efficier

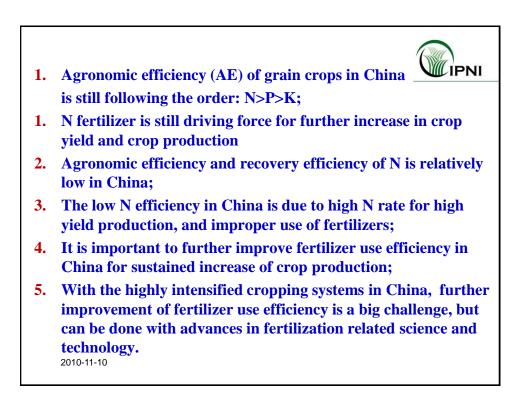
Table 5. Average nitrogen use efficiency terms for cereals in different world regions: Literature

Сгор	Region	N rate	RE _N	
	(No. of obs.)	(kg N ha ⁻¹)	(%)	
Maize, trials ¹	World (36)	102	63	
Maize, on-farm ²	USA (55)	103	37	
Rice, trials ¹	World (307)	113	44	
Rice, on-farm ³	Asia (179)	117	31	
Wheat, trials ¹	World (507)	117	54	
Average trials ¹	World (850)	-	51	









			Fertilizer rate (kg/ha					N recover
Year	Site and crop	Treatmen t	N	P ₂ 0 ₅	K ₂ O	Yield	N uptake by crop	efficienc
Mana	Manas	OPT-N	0	150	150	63733	139.3	
2007	Tomato	ОРТ	270	150	150	91680	300.4	59.7
2008	Manas	OPT-N	0	120	105	44447	113.3	
	Tomato	ОРТ	300	120	105	95259	313.7	66.8
2009	Bole Maize	OPT-N	0	105	45	10685	202.6	~
		ОРТ	225	105	45	15504	305.7	45.9
		OPT+M	225	105	45	19055	324.8	54.3
		FP	307.5	135	0	15353	304.9	33.3

