



FERTILIZERS AND SOIL FERTILITY IN REPUBLIC OF BELARUS

Alexey SHCHERBAKOV

JSC Belarusian Potash Company (BPC), Russia



JSC Belarusian Potash Company (BPC)
101 Thomson Road, #28-02 United Square, 307591 Singapore
Singapore
Tel: 65 6251 1108 - Fax: 65 6251 1098
E-mail: a.shcherbakov@belpc.by



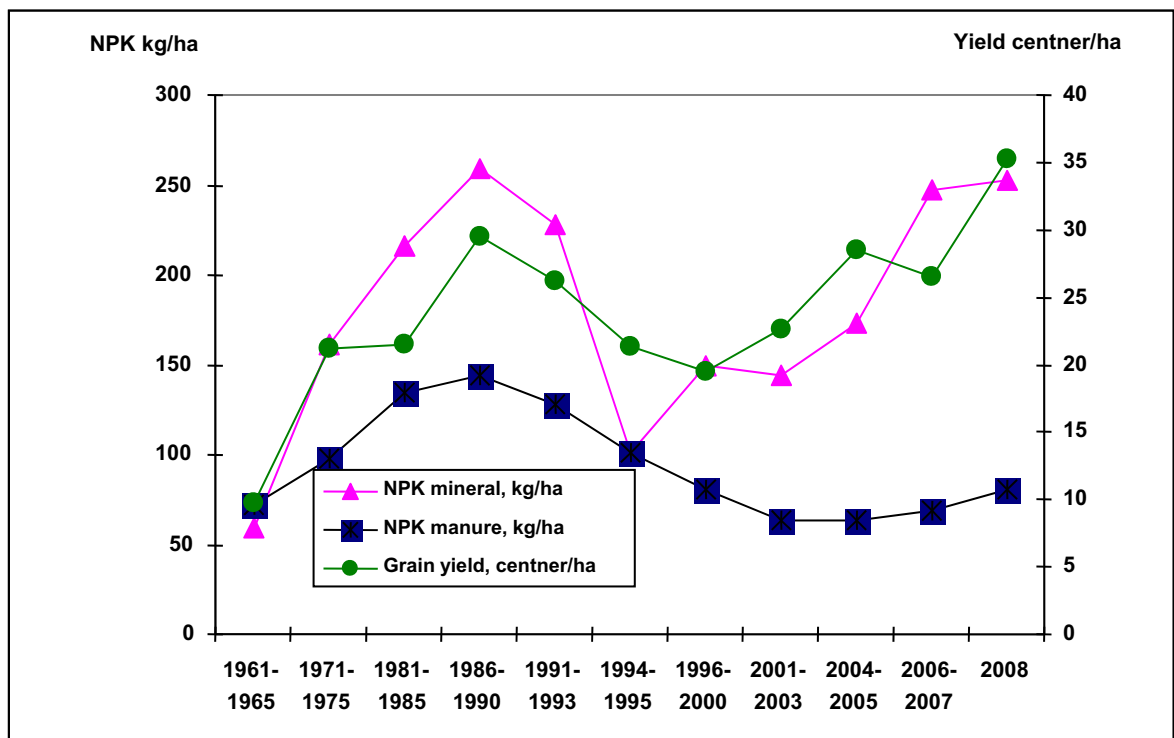
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Fertilizers and soil fertility in Republic of Belarus

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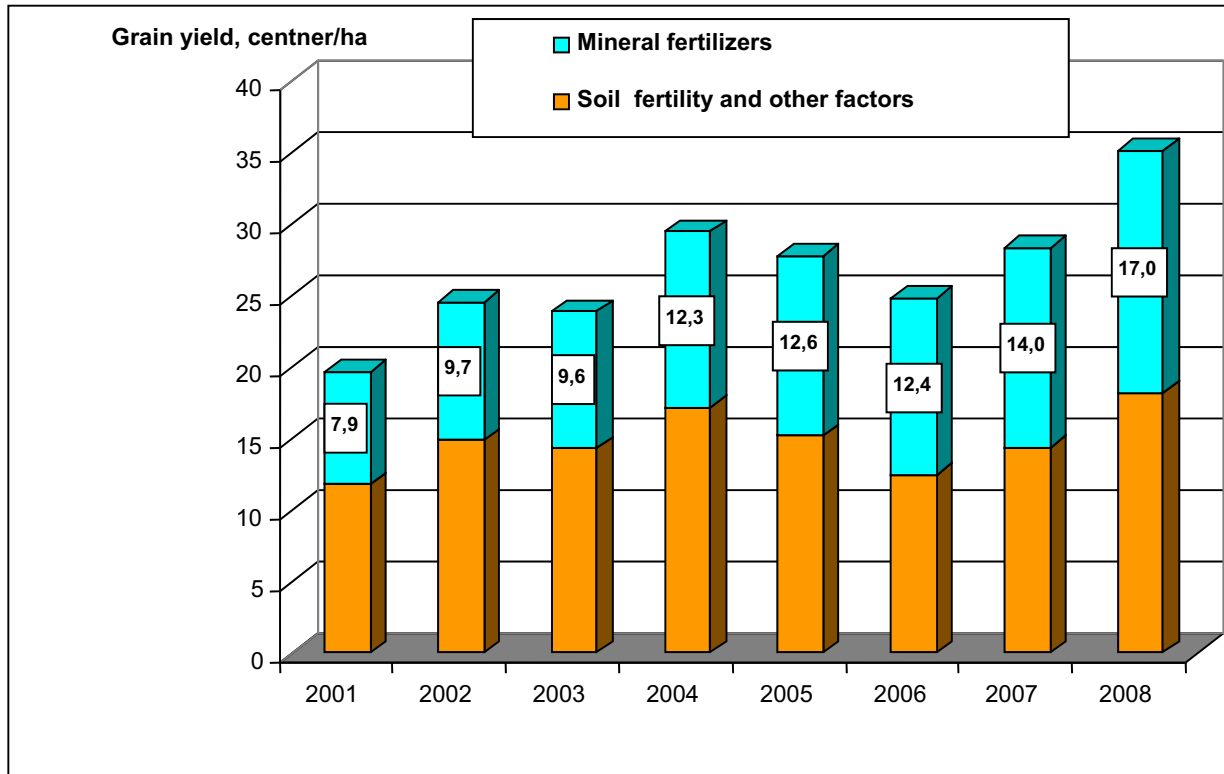


Dynamics of nutrients entry and grain yield in Belarus during 1961-2008



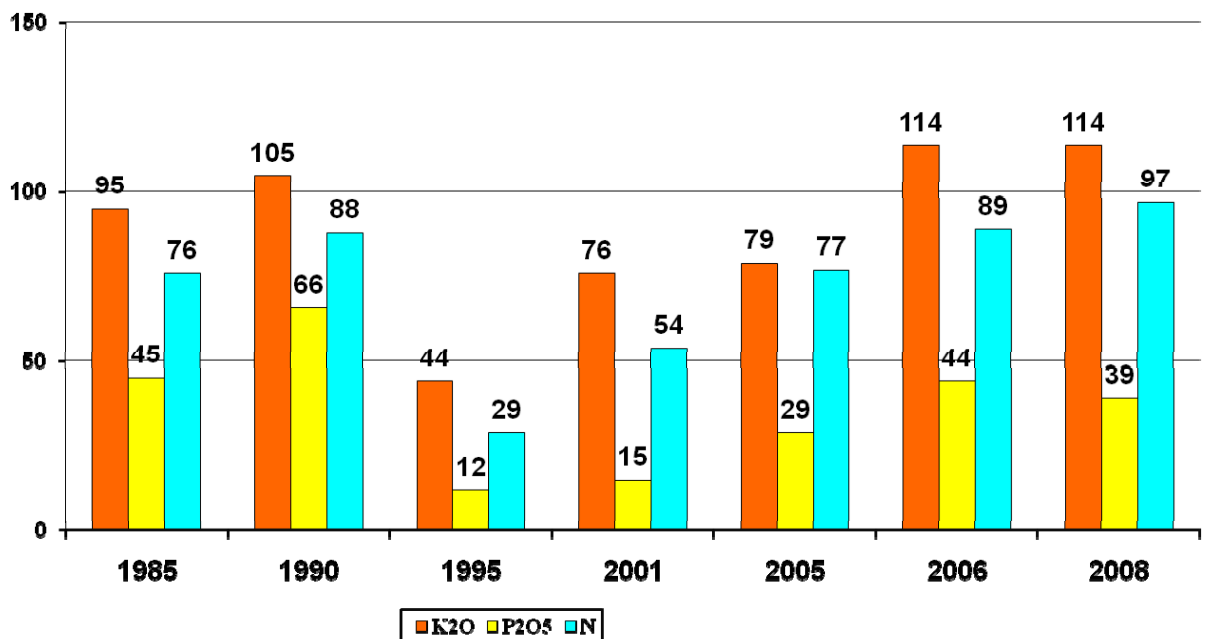
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Grain yield summands

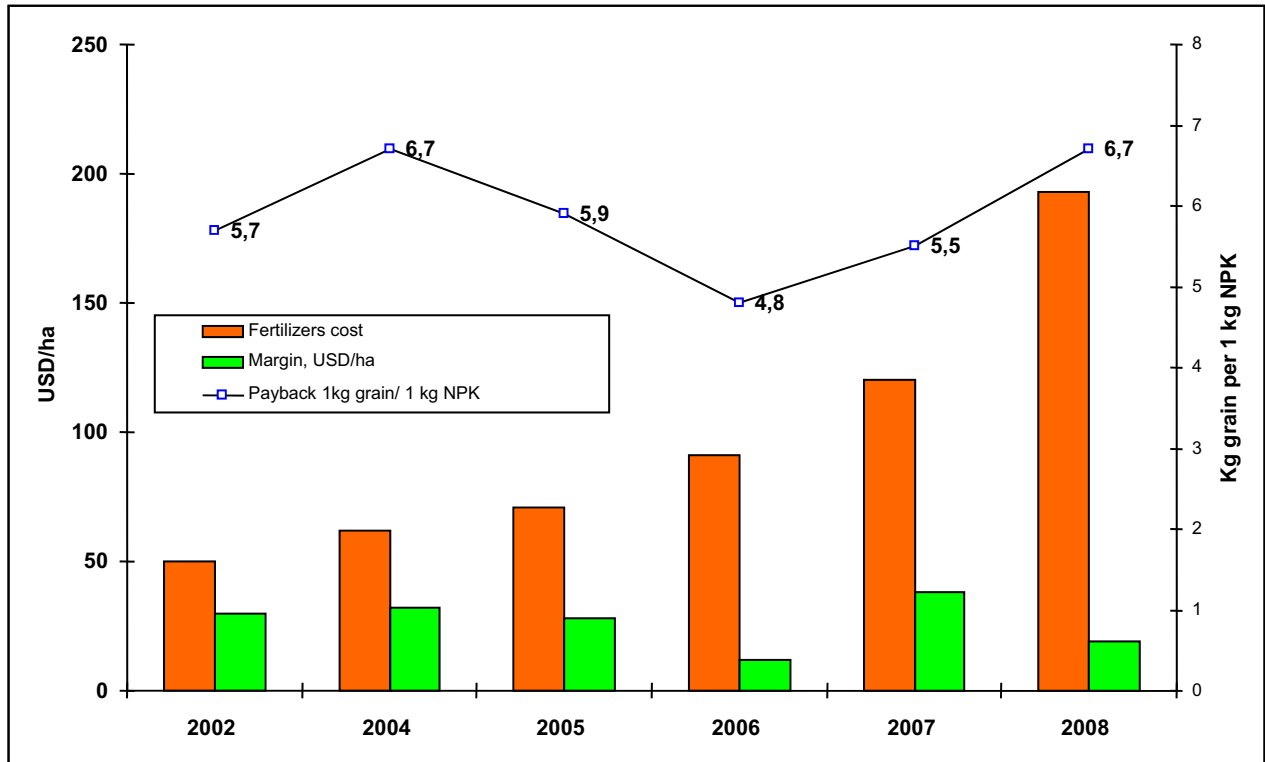


Doses and NPK rates on arable lands in Belarus

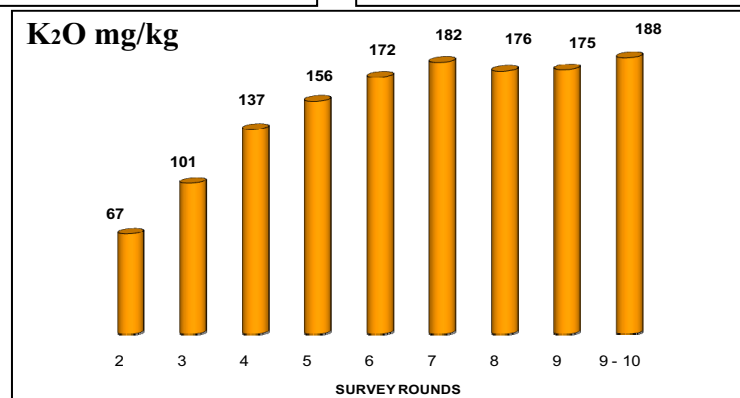
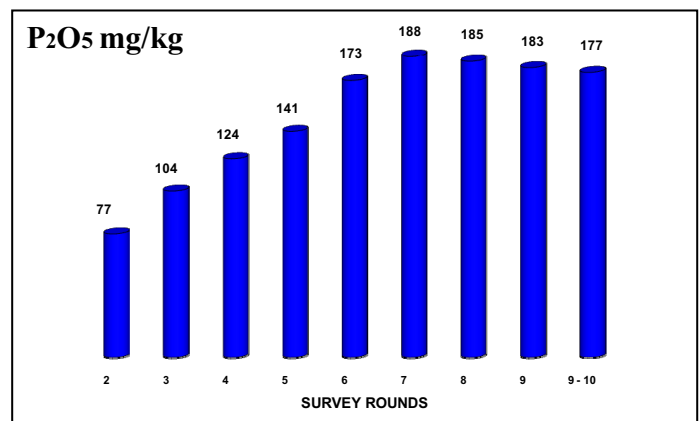
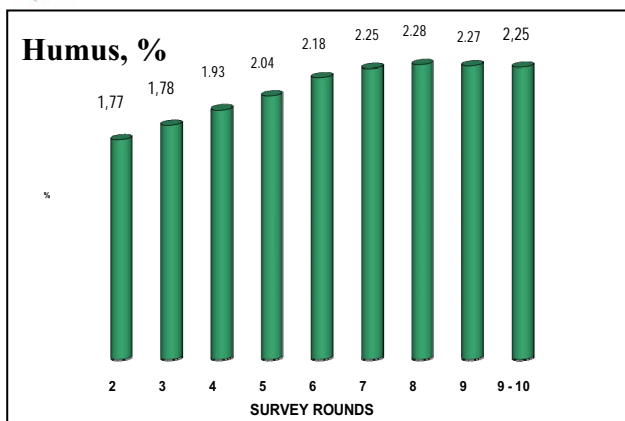
NPK kg/ha



Dynamics of mineral fertilizers efficiency



Dynamics of humus, phosphorus and potassium content on arable land in Belarus



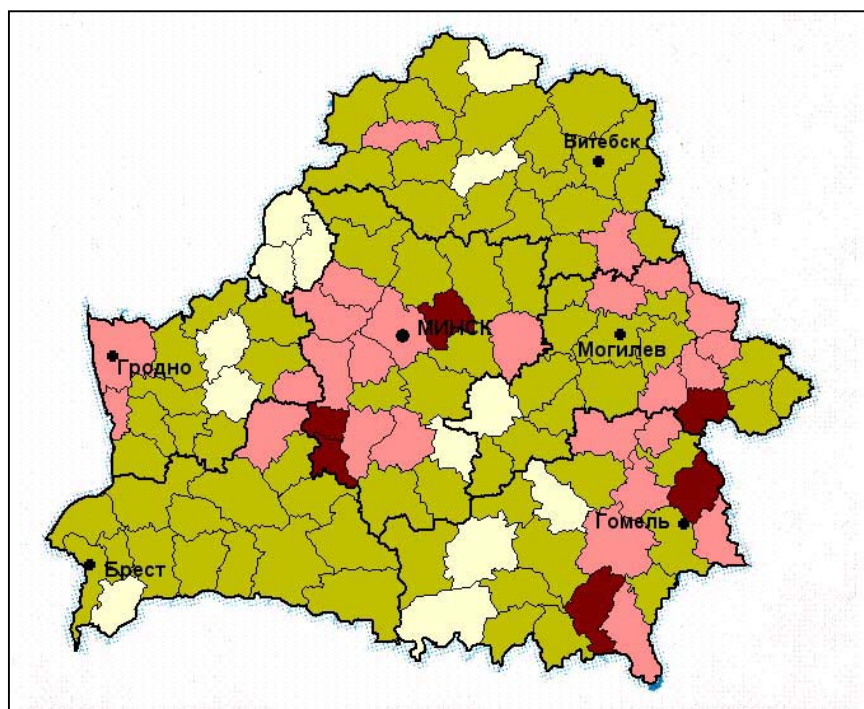
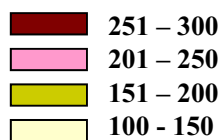
Survey rounds:
 2 -1970,
 7 -1992,
 8 -1996,
 9 -2000,
 10-2004.

Dynamics of mobile phosphorus and potassium in arable land (2008 +/- to 1993)

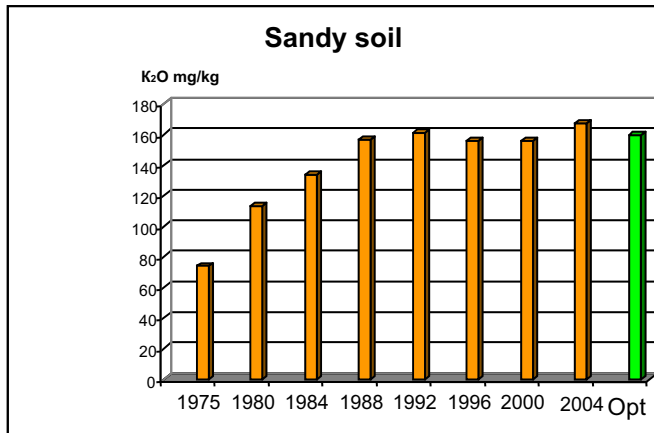
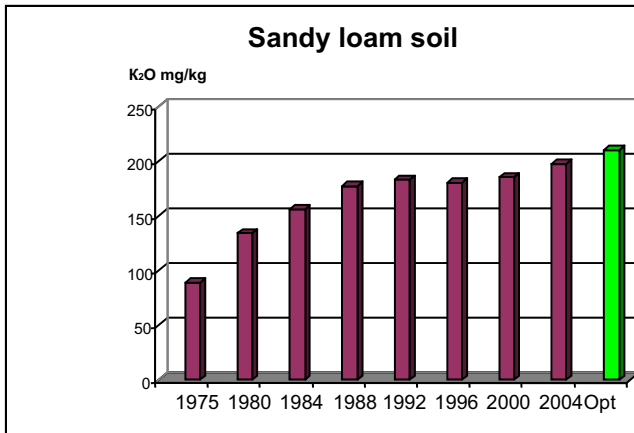
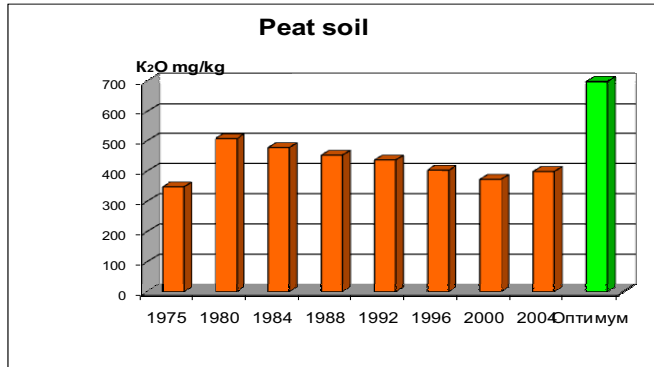
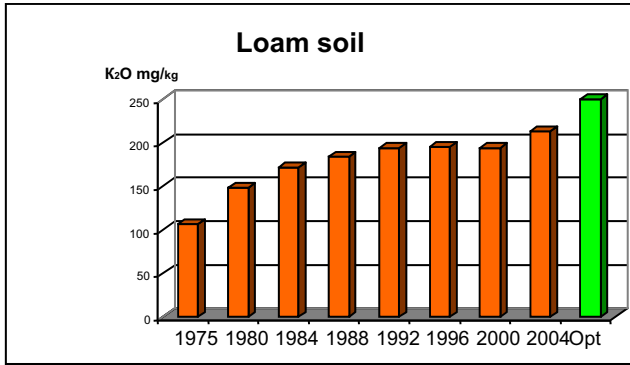
Region	P ₂ O ₅ , mg/kg		P ₂ O ₅ kg/ha	K ₂ O, mg/kg		K ₂ O kg/ha
	2008	+/-	2001-2006	2008	+/-	2001- 2006
Brest	154	-8	15- 43	180	7	89 - 120
Vitebsk	176	-6	12-35	172	5	55 - 96
Gomel	225	0	23- 51	206	35	89 - 120
Grodno	171	-15	16- 47	171	11	88 - 117
Minsk	174	2	15- 42	217	10	42 - 117
Mogilev	189	-8	12-48	194	16	64 - 108
Belarus	180	-5	15- 44	191	15	76 - 114

Weighted average content of potassium in arable land of Belarus

K₂O, mg/kg



Dynamics of potassium content in different soils of Belarus



Needs of complex fertilizers for Belarus in 2010

Crop	Fertilized square, '000 ha	Fertilizer type	Needs	
			'000t, physical weight	'000t, reactant
Winter wheat	388	5-16-35+Cu+Mn	116	62
Spring wheat	153	16-12-20+Cu+Mn	61	29
Brewer's barley	50	9-17-25+Cu+Mn	20	10
Winter triticale	405	5-16-35+Cu+Mn	162	91
Winter rape	168	7-16-31+S+B+Mn	67	36
Spring rape	30	16-12-20+S+B+Mn	12	6
Flax	68	6-21-32+B+Zn 5-16-35+B+Zn	20	12
Sugar beet	104	13-12-19+B+Mn+Na 16-12-20+B+Mn	62	27
Buckwheat	15	13-7-15+B	9	3
Potato	47	16-12-20+B	23	11
			552	287