



All-Russian Institute for Plant Protection (VIZR)
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Principles of Pesticide Assortment Formation in Russian Federation

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The use of pesticides (chemical or biological preparations) in any agroecosystem is an integral element of all agrotechnologies used in agricultural production

✓ «State Phytosanitary Safety»

✓ «State Food Safety»

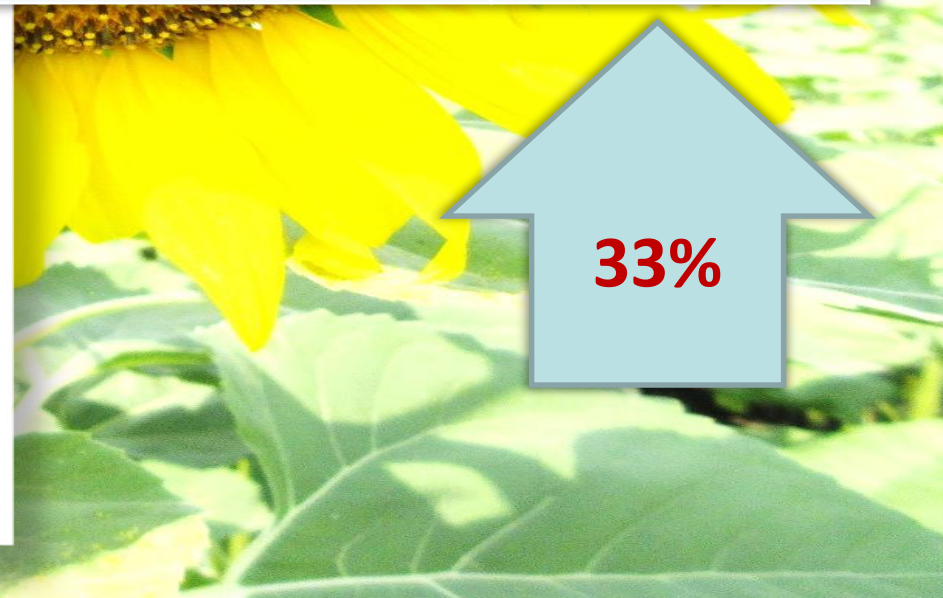
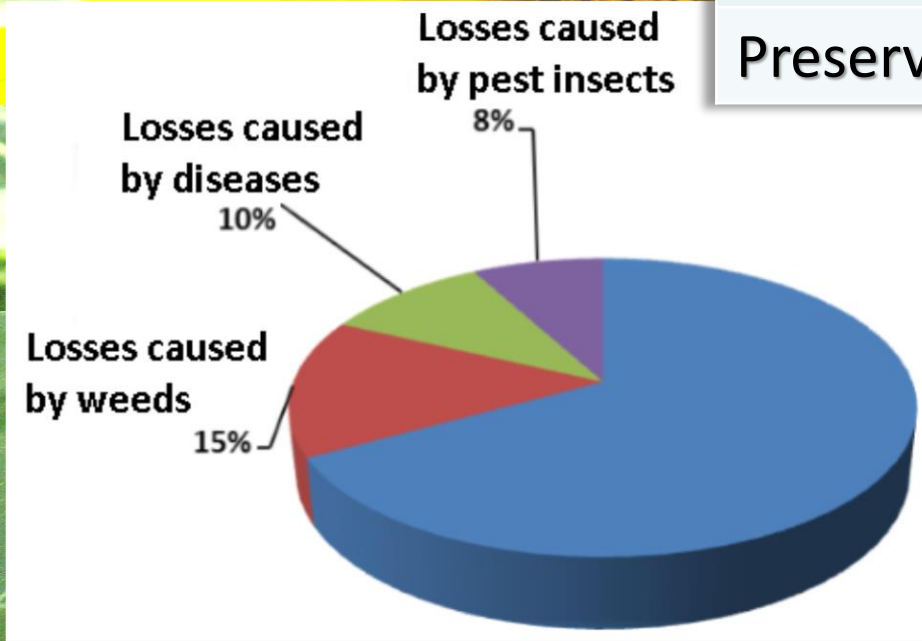
NOXIOUS ORGANISMS POSSESSING A DIRECT DANGER TO THE FIELD CROPS YIELD

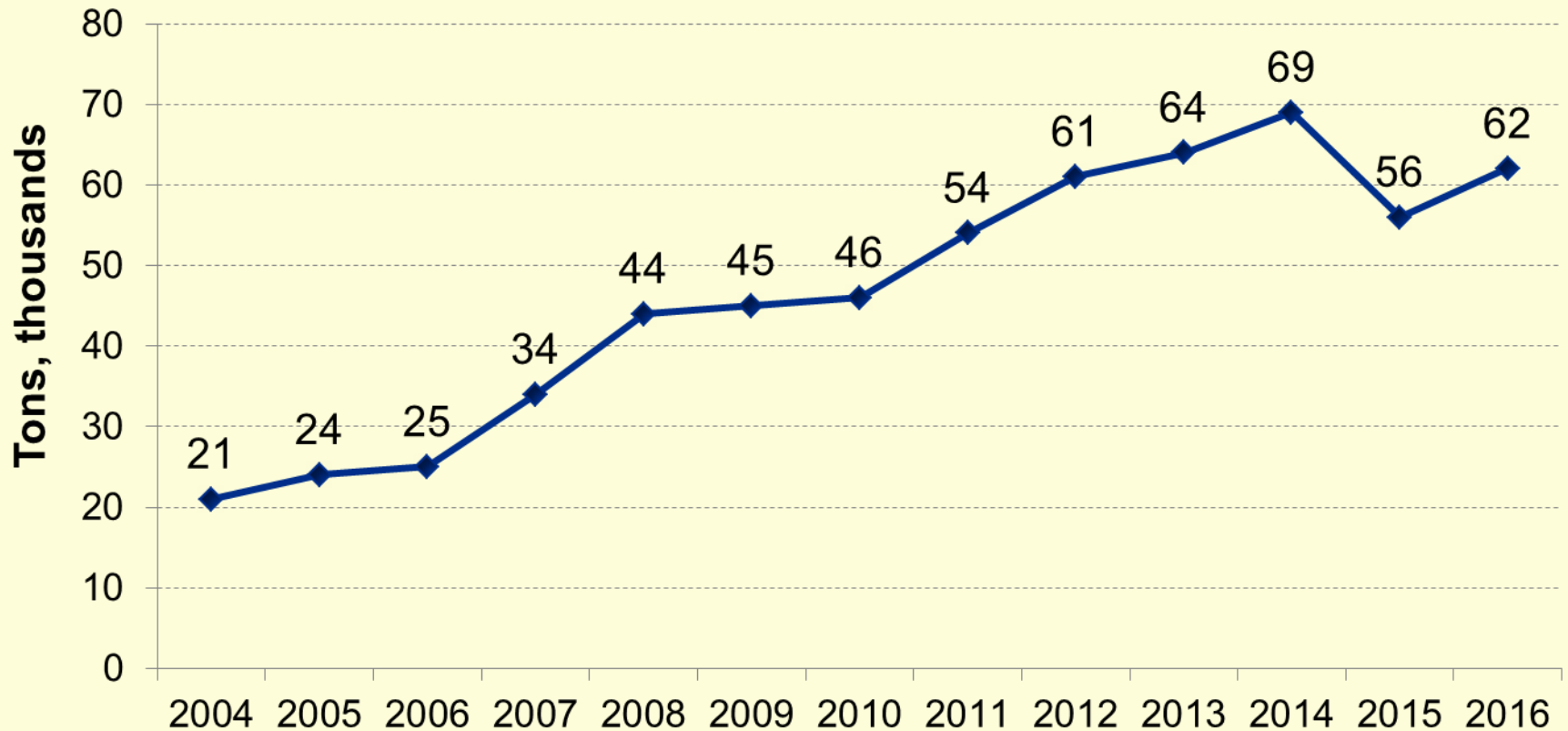


There are above 300 species in the list

Cereal Crops Yield Preservation in 2014 in Russian Federation

Gross yield in 2014	105 mln tons
Losses caused by weeds	15,8 mln tons
Losses caused by diseases	10,5 mln tons
Losses caused by pest insects	8,4 mln tons
Preserved yield	34,7 mln. т





Dynamics of many years application of plant protection compounds (PPC) in Russian Federation

The use of plant protection compounds in Russian Federation in 2016

	The use, thous.tons	% of total volume
Herbicides	34,3 ▲	55,0
Fungicides	11,5 ▲	18,5
Insecticides	5,3 ▲	8,5
Seed treaters	5,9 ▲	9,5
Desiccants and Defoliantes	3,7 ▲	5,9
Rodenticides	1,0 ▲	1,6
Growth regulators	0,6 ▲	0,9
Total	62,2	100
Biological preparations	2,2 ▲	2,9



STRUCTURE of PESTICIDE APPLICATION IN DIFFERENT CROPS IN RUSSIAN FEDERATION (%)
(According to data of Agro Statistics Board, 2014)

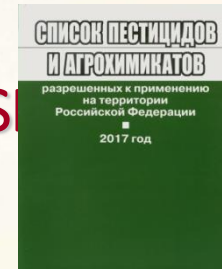
Crops	2010	2014
Cereals	72,9	56
Sugar beet	11,6	12
Maize	3,7	7
Sunflower	3,6	10
Soy-bean	2,9	8
Rape	-	3
Potato	1,5	4

ASSESSMENT OF BIOLOGICAL EFFECTIVENESS OF NOVEL PLANT PROTECTION COMPOUNDS IN 2017

Pesticides	Number of compounds	Number of active ingredients	Number of formulations	Number of protected crops	Number of noxious organisms
Insecticides	50 (5)	27	18	25	59
Fungicides	109 (4)	74	18	33	110
Herbicides	124	73	18	40	95
Total (2016)	283 (237)	174 (152)			264 (228)



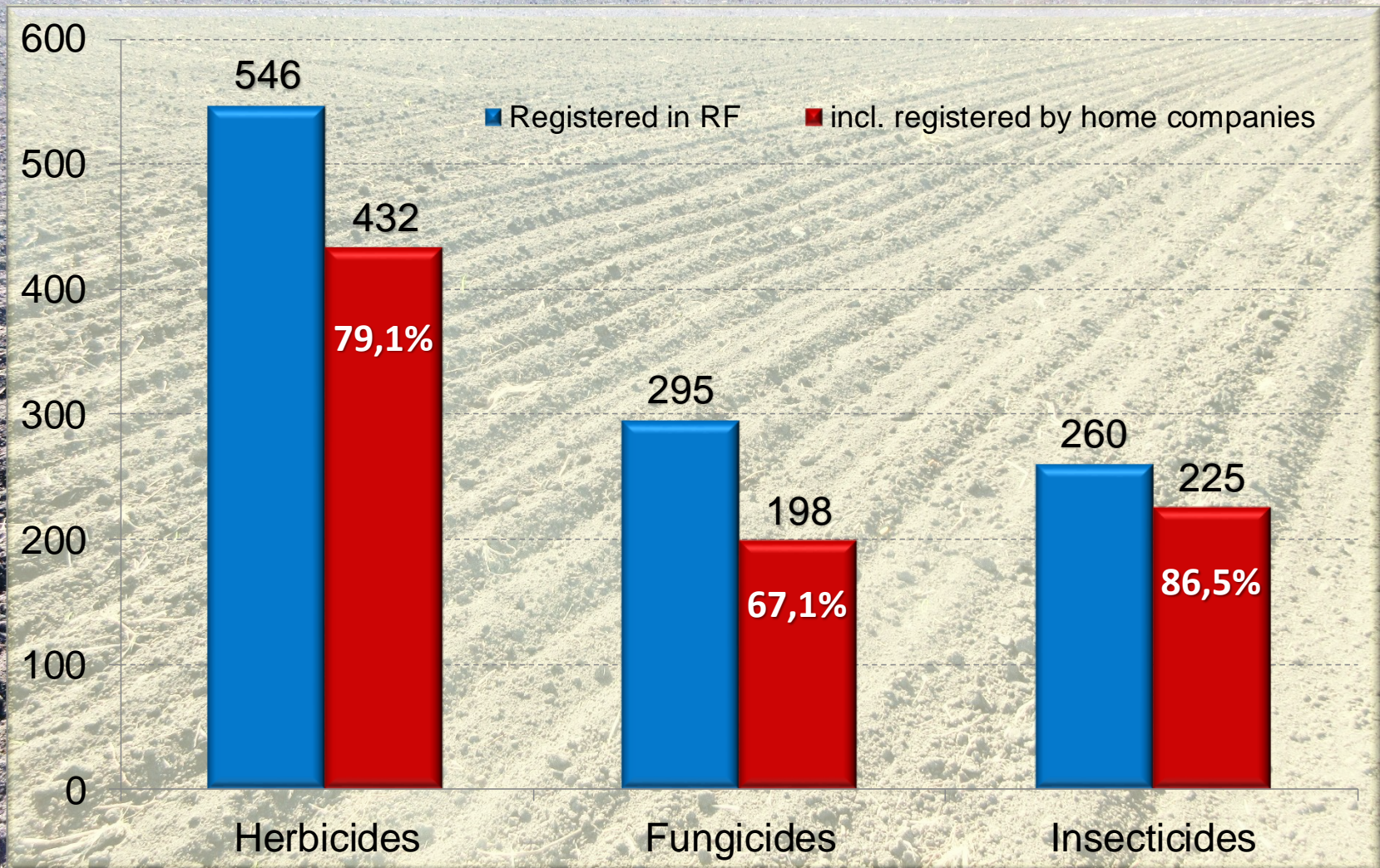
SORTMENT of PLANT PROTECTION COMPOUNDS in RUSSIAN FEDERATION



Issue year	Number of compounds (incl. biopreparations)			
	<i>Insecticides and acaricides</i>	<i>Fungicides</i>	<i>Herbicides</i>	<i>Rodenticides</i>
2004	188 (13)	145 (10)	223	29
2010	194 (13)	191 (18)	337	25
2012	205 (11)	208(20)	372	26
2015	288 (18)	330 (25)	621	28
2017	340 (21)	402 (30)	738	27 (1)

Total in 2017 - **1668** (2015 - **1403**; 2012 - **912**; 2006 - **524**), incl. others (nematicides, molluscicides, repellents, repellents, growth regulators, desiccants) - **161** preparations

The portion of home plant protection compounds in the total assortment of pesticides registered in Russian Federation



THANK YOU FOR ATTENTION

