



Lomonosov Moscow State University, Russia

Department of Soil Science

Expert Group on Ecological Assessment of Pesticides

**Ecological assessment of pesticides
and recommendation for their monitoring
in the Russian Federation**

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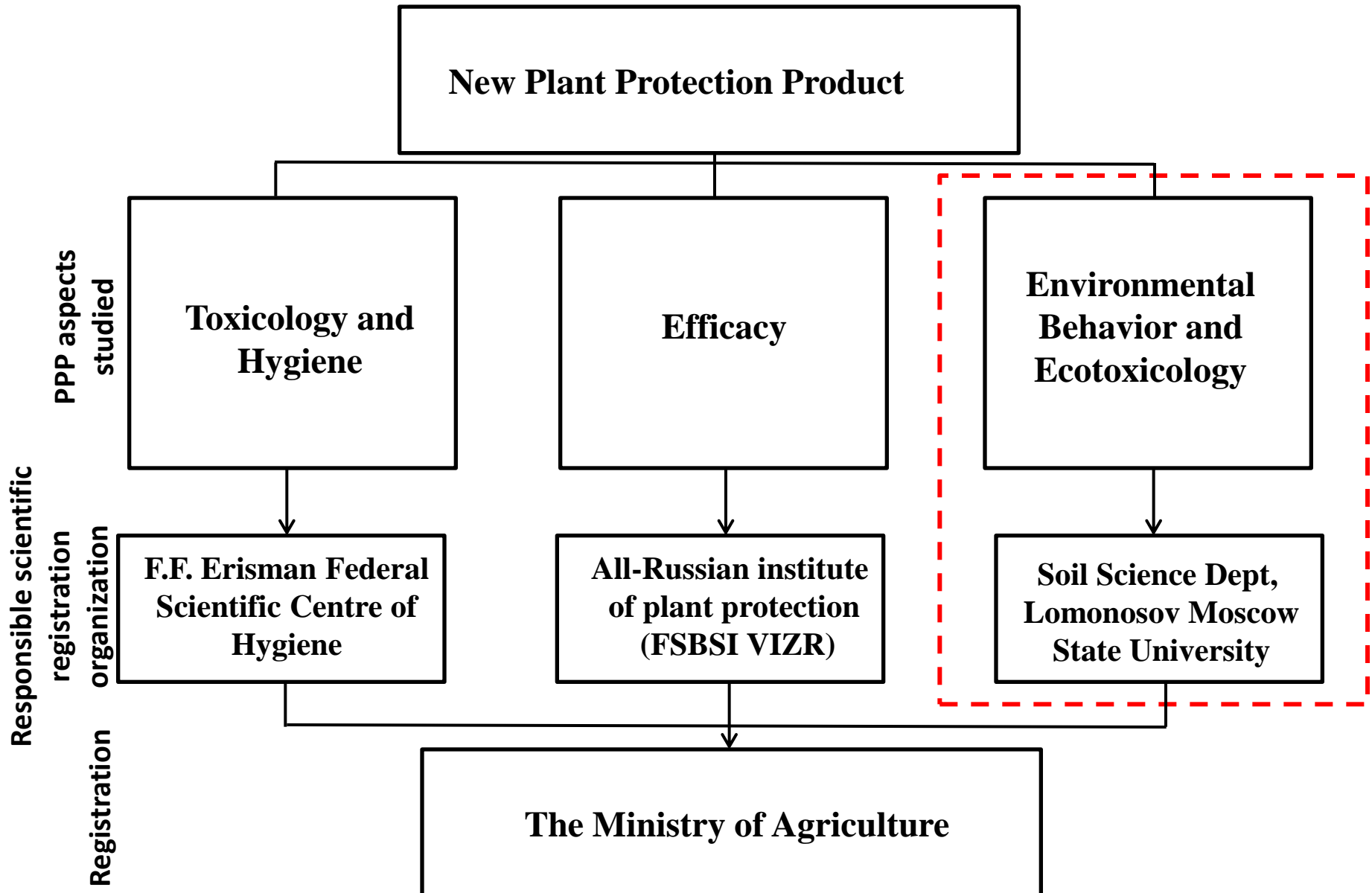
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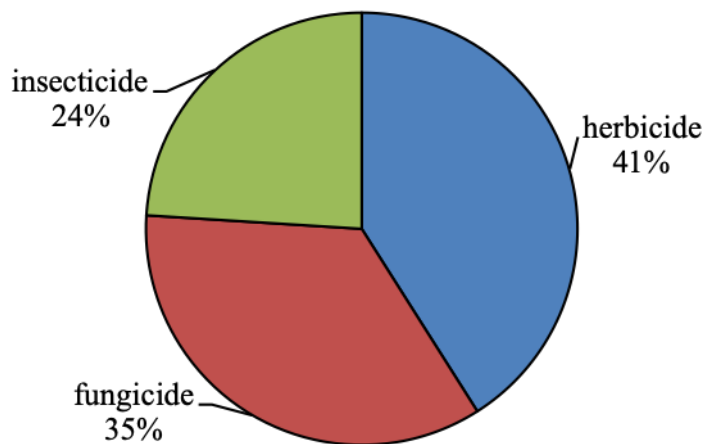
Budapest, 2019

Pesticide registration procedure in the Russian Federation



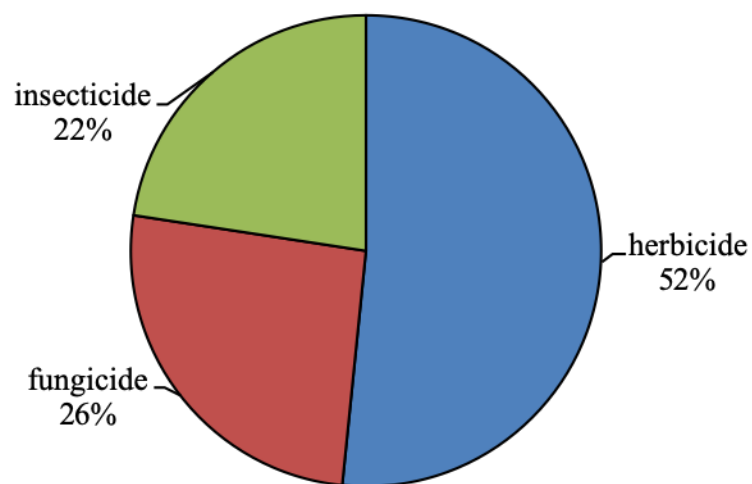
Approved active substances and products in the Russian Federation

Structure of approved a.s.,%



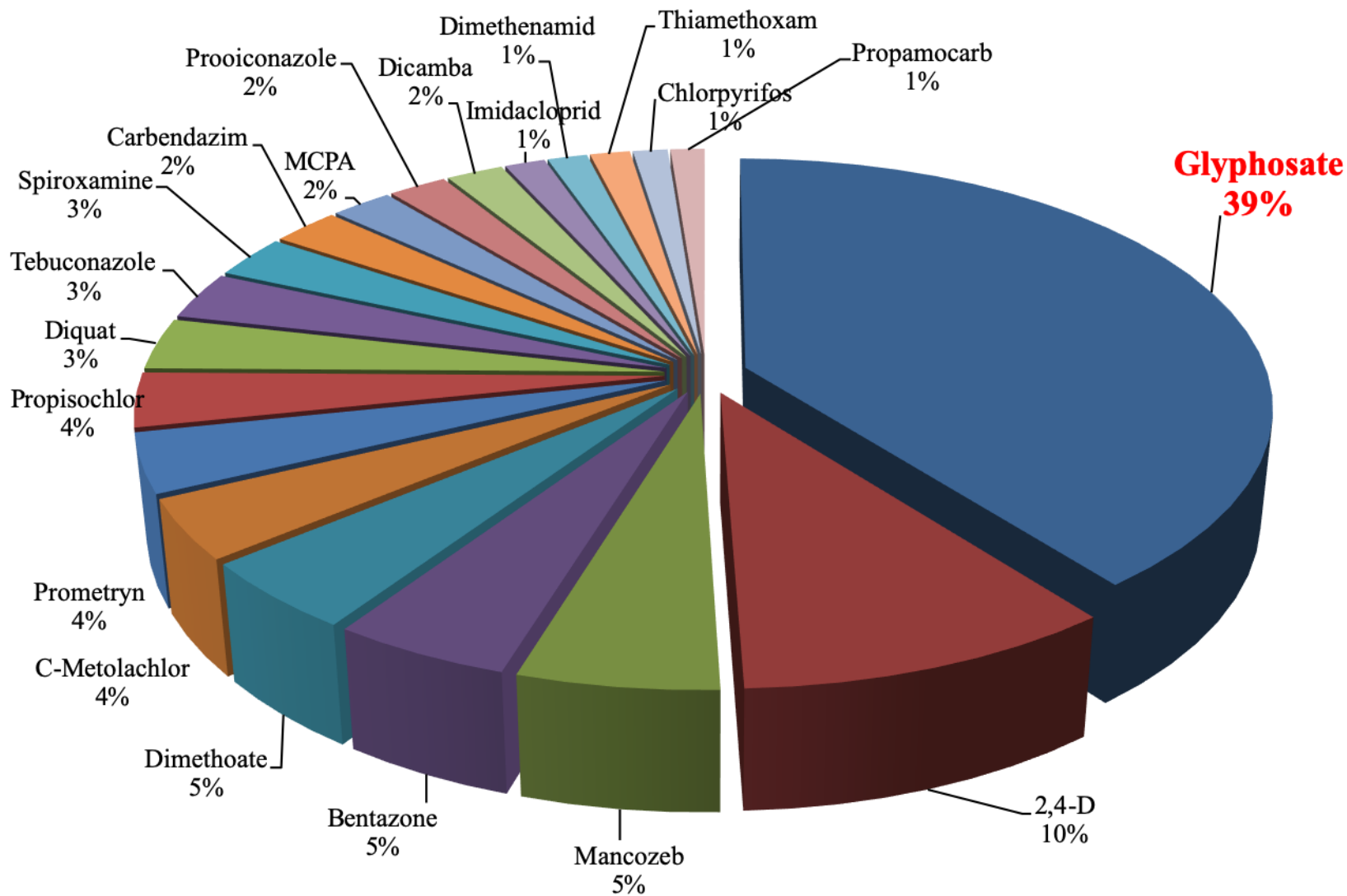
203 chemical a.s. are used

Structure of registered products,%

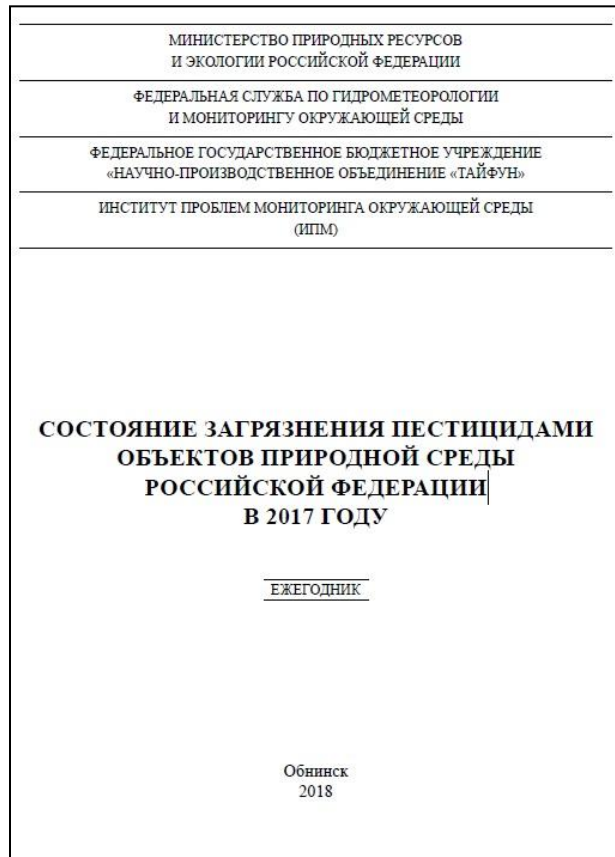


1550 chemical products are registered

Structure of the pesticide market in the Russian Federation



Pesticide Monitoring in the Russian Federation



Annual report
“Pesticides pollution of the
environment in the Russian Federation”

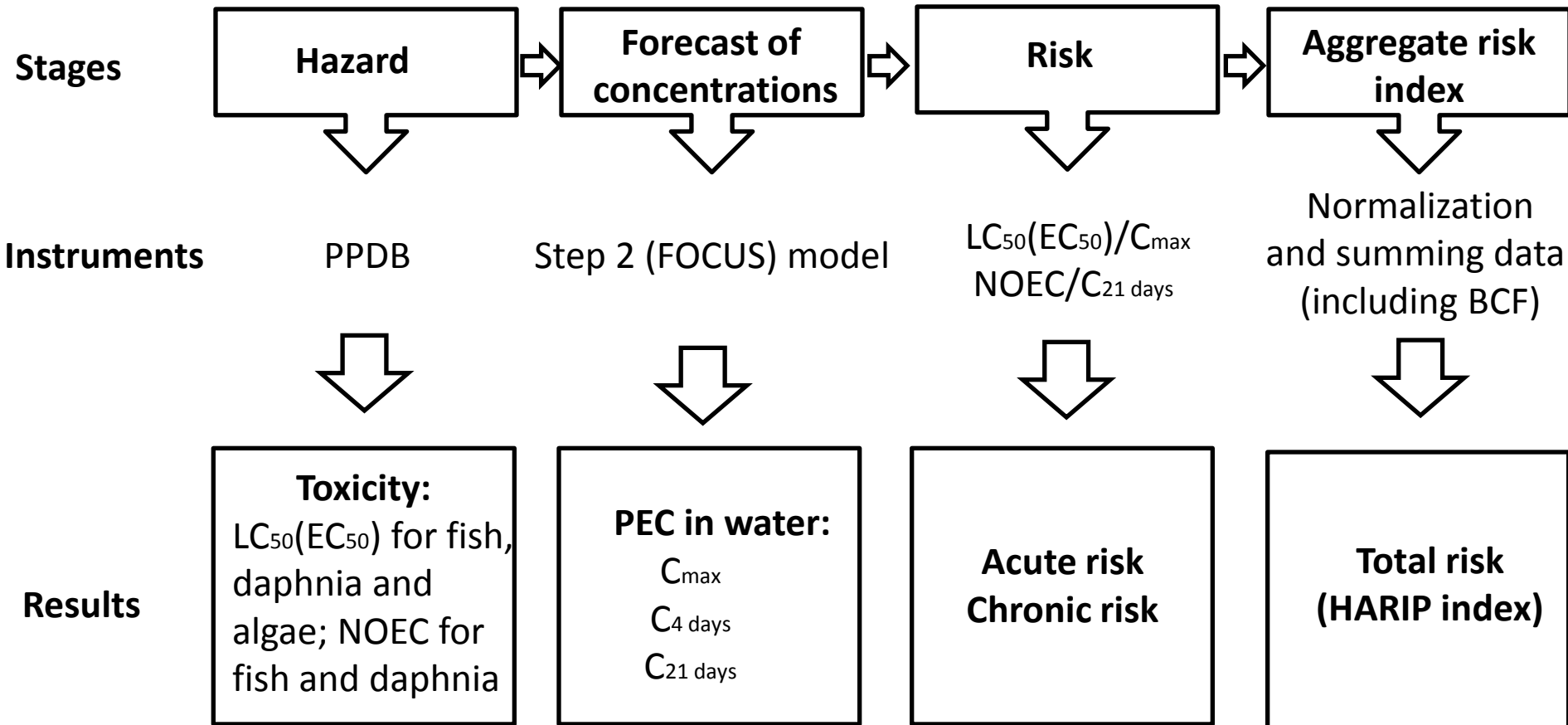


Annual report
“Surface water quality
in the Russian Federation”

DDT, aldrin and other outdated active substances are still being controlled in the environment.

The main principle includes the pesticide in the monitoring list is the hazard.

Pesticide hazard and risk assessment scheme for aquatic organisms



Top-20 positions of pesticides ranking on aggregated risk for aquatic organisms

Pesticide	Score				Ranking
	Acute risk	Chronic risk	BCF	Total risk	
				(HARIP index)	
Chlorpyrifos	1	2	15	18	1
Tefluthrin	4	4	13	21	2
Diazinon	3	3	21	27	3
Phosalone	8	5	26	39	4
Bifenthrin	25	6	9	40	5
Beta-cyfluthrin	11	12	20	43	6
Malathion	6	10	28	44	7
Gamma-cyhalothrin	27	11	6	44	7
Pendimethalin	23	20	2	45	8
Diflubenzuron	21	1	23	45	8
Deltamethrin	30	13	13	56	9
Chlorothalonil	14	14	29	57	10
Esfenvalerate	24	29	4	57	10
Diflufenican	7	35	16	58	11
Lambda-cyhalothrin	18	40	3	61	12
Cypermethrin	22	19	22	63	13
Lufenuron	38	24	1	63	13
Clofentezine	9	30	25	64	14
Tau-fluvalinate	31	27	8	66	15
Propargite	35	22	11	68	16
Pyridaben	17	15	38	70	17
Flurochloridone	10	39	24	73	18
Pyriproxyfen	53	7	14	74	19
Prometryn	2	44	30	76	20

Thank you for your attention!