

Trends research in JSRP

Rank	Category	Papers	%	Before1991	After1990	% After 1990
Proportionally more research 25 years prior 1991						
33	Altern-aeration	18	0.69	9	9	50.00
22	Altern-ionizing radiation	43	1.66	24	19	44.19
9	Altern-moisture, drying	101	3.90	55	46	45.54
21	Altern-other pest management	51	1.97	18	33	64.71
		213		106	107	51.11
30	Biol-biochemistry	23	0.89	9	14	60.87
37	Biol-diapause	14	0.54	11	3	21.43
4	Biol-ecology	150	5.79	60	90	60.00
12	Biol-food suitability	89	3.43	40	49	55.06
24	Biol-genetics	43	1.66	25	18	41.86
45	Biol-geographic variation	6	0.23	3	3	50.00
1	Biol-life history	179	6.91	111	68	37.99
29	Biol-parasitoids	23	0.89	10	13	56.52
		527		269	258	47.97
32	Chem-aerosol	20	0.77	8	12	60.00
43	Chem-food on toxicity	7	0.27	3	4	57.14
3	Chem-fumigation	154	5.94	64	90	58.44
26	Chem-insect growth regulators	34	1.31	15	19	55.88
5	Chem-residual insecticides	149	5.75	77	72	48.32
35	Chem-residues	15	0.58	8	7	46.67
8	Chem-resistance	106	4.09	56	50	47.17
39	Chem-sublethal	11	0.42	4	7	63.64
		496		235	261	54.66
15	Dec-taxonomy, ID, morphology	65	2.51	37	28	43.08
36	Other-rodents, vertebrate	14	0.54	7	7	50.00
Proportionally more research 30 years after 1990						
27	Altern-biological control	28	1.08	1	27	96.43
14	Altern-controlled atmosphere	65	2.51	21	44	67.69
11	Altern-extreme temperature	93	3.59	17	76	81.72
17	Altern-hermetic storage	61	2.35	4	57	93.44
10	Altern-host plant resistance	94	3.63	23	71	75.53
18	Altern-inert dust	59	2.28	8	51	86.44
31	Altern-insect resistant packaging	23	0.89	1	22	95.65
19	Altern-integration of methods	58	2.24	6	52	89.66

42	Altern-pheromone for control	8	0.31	2	6	75.00
48	Altern-sanitation	1	0.04	0	1	100.00
		490		83	407	86.16
16	Biol-behavior	65	2.51	21	44	67.69
13	Biol-mobility	67	2.59	19	48	71.64
25	Biol-pathogens	35	1.35	9	26	74.29
28	Biol-pheromone	24	0.93	3	21	87.50
40	Biol-predator	10	0.39	3	7	70.00
46	Biol-symbiote	5	0.19	1	4	80.00
34	Biol-technique	16	0.62	3	13	81.25
		222		59	163	76.05
6	Chem-botanical	145	5.60	17	128	88.28
41	Chem-incomplete coverage	8	0.31	2	6	75.00
38	Chem-other low-risk insecticides	12	0.46	0	12	100.00
		165		19	146	87.76
44	Dec-aids	7	0.27	1	6	85.71
20	Dec-detection methods	57	2.20	6	51	89.47
7	Dec-economic losses, quality	119	4.59	24	95	79.83
47	Dec-extension	2	0.08	0	2	100.00
22	Dec-sampling	51	1.97	6	45	88.23
		236		37	199	88.65
49	Engineering	1	0.04	0	1	100.00
2	Other-fungi, other microbes	162	6.25	55	107	66.05
Total		2591		907	1684	
