

Environments and Contaminants

Chemicals in Food

Table E9: Percentage of sampled apples, carrots, grapes, and tomatoes with detectable residues of organophosphate pesticides, 1998–2017

	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Apples	NA	80.7	54.9	49.3	45.5	NA	50.5	45.0	NA	NA	NA	34.7
Carrots	NA	NA	10.3	6.2	8.3	NA	NA	NA	3.5	5.4	NA	NA
Grapes	NA	NA	20.6	14.8	NA	NA	16.5	16.2	NA	NA	NA	7.7
Tomatoes	37.4	29.9	NA	NA	NA	14.6	11.8	NA	NA	9.7	9.5	NA
	2010	2011	2012	2013	2015	2015	2016	2017				
Apples	23.0	NA	NA	NA	13.6	9.9	6.4	NA				
Carrots	NA	NA	NA	6.3	4.7	NA	NA	NA				
Grapes	5.4	NA	NA	NA	NA	0.6	0.4	NA				
Tomatoes	NA	NA	NA	NA	2.8	1.8	2.1	NA				

DATA: U.S. Department of Agriculture, Pesticide Data Program

NOTE: For purposes of indicator calculation, only the 42 organophosphate pesticides measured by the pesticide data program in each year 1998–2017 were considered, so that indicator data are comparable over time. “NA” indicate that the food was not sampled by the Pesticide Data Program in a particular year. Improvements in measurement technology increase the capability to detect pesticide residues in more recent samples. In this analysis, limits of detection are held constant so that indicator data are comparable over time. A separate analysis found that actual detections of pesticide residues were similar or only slightly greater than the values shown in this table.