

## Results of our apple juice and grape juice tests

We tested 88 samples of apple juice and grape juice purchased in August and September, 2011, in Connecticut, New Jersey, and New York. We tested one sample from each of three lots of the majority of the juices, most of which were made from concentrate in ready-to-drink packages (bottles or juice boxes). As the country-of-origin-labeling (COOL) column below indicates, some juice samples we tested were made from concentrate that came from multiple countries, while others came solely from the United States or another single country. There's no federal limit for arsenic or lead in juice. In our tests, 25 percent of samples exceeded the

roduct	Country-of-origin labeling (COOL)	Juice type (RTD = ready-to-drink package)	Package type	Size (fl. oz.)	Lot #	Total arsenic (ppb)	Total inorganic arsenic species	arsenic species	Tota lead (pp
AF Everyday Value Organic 1000/ Apple Juice	Turkey, Argentina, New Zealand	RTD	Plastic bottle	64	1	7.11	(ppb) 1 5.89	(ppb) 1 0.60	3.4
<b>65 Everyday Value</b> Organic 100% Apple Juice Whole Foods)	Argentina	RTD	Plastic bottle	64	2	7.00	6.74	0.71	3.
	China	RTD	Plastic bottle Plastic	64	1	1.67	1.03	0.55	1.4
America's Choice 100% Apple Juice (A&P)	China China	RTD RTD	bottle Plastic bottle	64	3	4.37 <sup>2</sup>	3.85 <sup>2</sup> 0.60	0.942	5.5
Apple & Eve 100% Apple Juice	USA, Argentina, China	RTD	Juice box(es)	8 x 6.75	1	5.02	2.49	1.88	2.
	USA, Argentina, China USA, Argentina,	RTD	Juice box(es) Juice	8 x 6.75	2	5.30	3.06	2.23	3.
	China	RTD	box(es)	8 x 6.75	3	10.5	4.13	4.85	1
ierber 100% Apple Juice	Argentina Argentina	RTD RTD	bottle(s) Plastic bottle(s)	4 x 4 4 x 4	2	9.69 8.66	10.48 7.65	0.92	7.
	Argentina	RTD	Plastic bottle(s)	4 x 4	3	5.82	3.48	0.69	3
	Argentina	RTD	Plastic bottle(s)	4 x 4	1	5.74	4.44	0.90	2
	Argentina Argentina	RTD RTD	Plastic bottle(s) Plastic	4 x 4 4 x 4	2	5.68 5.47	4.55 3.89	0.95 0.78	2
	China	RTD	bottle(s)  Plastic	64	1	3.14	2.05	0.69	2
<b>Gold Emblem</b> 100% Apple Juice (CVS)	China	RTD	bottle Plastic bottle	64	2	9.38	4.993	3.943	5
	China	RTD	Plastic bottle	64	3	8.56	5.44	3.61	4
<b>Gold Emblem</b> 100% Grape Juice (CVS)	USA, Argentina Spain, USA	RTD RTD	Plastic bottle Plastic	64 64	1	7.47 7.05	6.80 5.97	1.54 <sup>3</sup>	8
	USA, Spain	RTD	bottle Plastic bottle	64	3	5.89	4.06	0.63	6
	USA	RTD	Plastic bottle	64	1	3.85	2.66	0.94	0
<b>Great Value</b> 100% Apple Juice with added fiber Not From Concentrate (Walmart)	USA	RTD	Plastic bottle	64	2	2.97	2.35	0.87	0
	USA	RTD	Plastic bottle Plastic	64	3	2.93	1.90	0.61	0
Great Value 100% Apple Juice (Walmart)	Argentina, China Argentina, China	RTD RTD	bottle Plastic	64	1	10.1	5.79 5.09	4.26 8.40	5
, , (amid y	Argentina, China	RTD	bottle Plastic bottle	64	3	11.5	4.86	8.05	5
eat Value 100% Apple Juice (Walmart)	S. Africa, China	RTD	Plastic bottle(s)	6 x 10	1	5.46	3.76	1.85	3
oe's Kids 100% Apple Juice (Trader Joe's)	Chile	RTD	Juice box(es) Juice	8 x 6.75	1	4.12	3.44	0.49	5
	Chile Chile	RTD RTD	box(es) Juice	8 x 6.75 8 x 6.75	2	4.07 5.69	3.55 5.09	0.50 0.48	5
	China	RTD	box(es)  Plastic bottle	64	1	2.95	2.37	1.24	2
luicy Juice 100% Apple Juice	China	RTD	Plastic bottle	64	2	1.73	1.34	0.67	0
	China	RTD	Plastic bottle	64	3	1.74	1.01	0.50	1
uicy Juice 100% Apple Juice	China China	RTD RTD	Juice box(es) Juice	8 x 6.75 8 x 6.75	1	1.28 2.83	0.79	0.53	1
	China	RTD	box(es) Juice box(es)	8 x 6.75	3	1.93	1.05	0.51	2
<b>uicy Juice</b> 100% Apple Juice Non Frozen Con- entrate	China	Concentrate (non-frozen)	Can	11.5	1	4.244	4.974	0.194	1.5
	China	Concentrate (non-frozen) Concentrate	Can	11.5	2	2.044	1.524	0.624	2.
	China	(non-frozen)	Can Plastic	11.5	3	1.924	1.674	1.283 4	1.3
luicy Juice 100% Apple Juice	Brazil Brazil	RTD RTD	bottle(s) Plastic bottle(s)	6 x 10	2	1.68	1.18 1.28	0.48	3
	Brazil	RTD	Plastic bottle(s)	6 x 10	3	1.802	1.112	0.482	1.1
cky Leaf 100% Apple Juice	China	RTD	Plastic bottle	64	1	3.19	2.24	0.49	1
	USA, S. Africa USA, Argentina,	RTD	Plastic bottle	64	2	2.30	1.75	0.48	C
<b>Ainute Maid</b> 100% Apple Juice	Austria, Chile, China, Germany, Turkey	RTD	Plastic bottle(s)	6 x 10	1	6.22	4.57	1.59	6
	USA, Argentina, Austria, Chile, China, Germany, Turkey	RTD	Plastic bottle(s)	6 x 10	2	6.64	4.36	1.75	6
	USA, Argentina, Austria, Chile, China, Germany, Turkey	RTD	Plastic bottle(s)	6 x 10	3	6.71	3.38	2.36	4
<b>Ainute Maid</b> 100% Apple Juice (Packaged for AcDonalds)	USA, Argentina, Austria, Chile, China, Germany, Turkey	RTD	Juice box	6.75	1	2.04	0.86	0.49	0
	USA, Argentina, Austria, Chile, China, Germany, Turkey	RTD	Juice box	6.75	2	5.58	3.28	2.43	5
	USA, Argentina, Austria, Chile, China,	RTD	Juice box	6.75	3	2.39	1.49	0.50	2
	Germany, Turkey USA and China	RTD	Plastic bottle	64	1	7.50	4.35	2.85	2
<b>Nott's Original</b> 100% Apple Juice	USA and China	RTD	Plastic bottle	64	2	3.99	2.11	1.81	2
	USA, Argentina, and China	RTD	Plastic bottle	64	3	7.87	6.55	0.84	3
<b>Nott's Original</b> 100% Apple Juice <b>Nott's Original</b> 100% Apple Juice	USA and China USA and China	RTD RTD	Juice box(es) Juice	4 x 4.23 4 x 4.23	1	10.2 3.97	5.20 3.30	4.69 0.65	0
	USA and China	RTD	box(es) Juice box(es)	4 x 4.23	3	4.22	2.76	0.60	0
	China	RTD	Juice box(es)	8 x 6.75	1	2.12	1.64	0.66	1
	China	RTD	Juice box(es) Juice	8 x 6.75	2	2.76	1.87	0.48	1
	China USA, Argentina,	RTD	box(es) Plastic	8 x 6.75	3	2.262	1.542	0.522	0.5
ture's Own 100% Apple Juice	Chile, and/or China USA, Argentina, Chile, and/or China	RTD	bottle Plastic bottle	64	2	2.35	1.38	0.57	0
<b>Did Orchard</b> 100% Apple Juice Frozen Concentrate	Argentina, Chile, China, Poland, USA	Concentrate (frozen)	Plastic Tube	12	1	1.574	1.724	0.394	0.0
	Argentina, Chile, China, Poland, USA Argentina, Chile,	Concentrate (frozen) Concentrate	Plastic Tube Plastic	12	2	1.834	1.254	0.664	0.0
	China, Poland, USA	(frozen)  RTD (refriger-	Tube Plastic	12	3	4.774	1.004	2.994	1.2
d Jacket Orchards 100% Fuji Apple Juice Never	USA	ated) RTD (refriger-	bottle  Plastic  bottle  bottle	32 32	2	1.61	1.01 0.84	0.62	0
om Concentrate (refrigerated)	USA	ated) RTD (refriger- ated)	bottle Plastic bottle	32	3	1.812	0.512	0.482	0.
	China	RTD	Plastic bottle	32	1	6.35	6.41	0.77	2
te Aid Pantry 100% Apple Juice	China China	RTD RTD	Plastic bottle Plastic	32 32	2	1.45 1.14	0.92	0.74 0.48	0
	USA, Argentina,	Concentrate	bottle Cardboard	12	1	2.344	2.174	0.48	5.5
neca 100% Apple Juice Frozen Concentrate	China USA, Argentina, China	(frozen) Concentrate (frozen)	tube Cardboard tube	12	2	4.384	1.684	2.144	3.
	USA, Argentina, China	Concentrate (frozen)	Cardboard tube	12	3	2.324	1.244	0.414	0.9
	Germany, Austria, Italy, Hungary, Argentina, Chile,	RTD	Plastic bottle(s)	4 x 15.2	1	1.48	0.71	0.48	1.
	Turkey, Brazil, USA, China Germany, Austria,		- 200(3)						
opicana 100% Apple Juice	Italy, Hungary, Argentina, Chile, Turkey, Brazil, USA,	RTD	Plastic bottle(s)	4 x 15.2	2	2.10	1.65	0.61	0
	China Germany, Austria, Italy, Hungary,		DI- (						
	Argentina, Chile, Turkey, Brazil, USA, China	RTD	Plastic bottle(s)	4 x 15.2	3	1.53	0.74	0.50	0
	Argentina, S. Africa, China	RTD	Plastic bottle	64	1	6.78	5.55	0.71	6
Valgreens 100% Apple Juice	Argentina, China	RTD	Plastic bottle	64	2	3.97	2.52	0.68	6
	Argentina, China	RTD	Plastic bottle Plastic	64	3	5.25	2.28	2.70	2
<b>Walgreens</b> 100% Grape Juice	USA, Spain USA, Argentina,	RTD RTD	Plastic bottle Plastic	64 64	1	17.4 9.71	15.49 6.82	1.81 0.67	1
	Italy, Spain Not on label	RTD	bottle Plastic bottle	64	3	24.7	20.48	1.71	1
	China, Chile, Argentina	Concentrate (non-frozen)	Can	11.5	1	2.834	2.954	0.764	1.2
<b>Jelch's</b> 100% Apple Juice Pourable Concentrate	China, Chile, Argentina China, Chile, Argen-	Concentrate (non-frozen) Concentrate	Can	11.5	2	1.094	1.084	0.614	0.6
	China, Chile, Argen-		Can	11.5	3	4.084	2.964	0.534	1.3
	tina	(non-frozen)							
<b>elch's</b> 100% Grape Juice	USA USA	(non-frozen)  RTD  RTD	Plastic bottle Plastic bottle	64	1 2	12.4 7.06	9.77	0.98	9

Plastic bottle Plastic RTD 10.7 bottle  $Total \ arsenic \ and \ total \ lead \ by \ ICP-DRC-MS \ with \ reporting \ limits \ of \ 0.053 \ ppb \ for \ arsenic \ and \ 0.006 \ ppb \ for \ lead. \ Arsenic \ species \ by \ IC-ICP-DRC-MS \ with \ the \ following \ reporting \ limits:$ 

<sup>0.14</sup> ppb for As III; 0.18 ppb and 0.70 ppb for As V; 0.16 ppb and 0.52 ppb for monomethylarsonic acid (MMA), dimethylarsinic acid (DMA), and trimethylarsine oxide (TMAO). 🗉 For calculation of sums of arsenic species, all values reported as less than detection limits (NDs) were applied as full 100% of the detection levels. Total Inorganic Arsenic is the sum of arsenite (As III) and arsenate (As V), and Total Organic Arsenic is the sum of MMA, DMA and TMAO. The sum of all arsenic species may not add up to 100% of

total arsenic due to limitation of the applied speciation method and variabilities in different methods used for the two analyses.  $\ {\bf \square}$  Averages of two blind duplicates analyses.

 $<sup>\</sup>begin{tabular}{ll} \blacksquare & Duplicate results of one or more arsenic species varied more than others, probably due to complex sample matrices. \end{tabular}$ 

<sup>4</sup> Results of "concentrate" samples divided by 4 to account for 4X dilution from using 1 part juice and 3 parts water as per label instruction; amounts of arsenic and lead in the water used assumed insignificant.

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