





Does purity matter?



Purity of small and large seizures made in the same catchment area of the treatment plant Source: Forensic and Scientific Services, Department of Health, Queensland Government



Why isn't purity in the equations? Are consumers sensitive to purity changes?

Environmental chemists



Vs.

Drug epidemiologists



Are consumers sensitive to changes in purity?

	2010	2011	2012	2013	2014	2015
Powder – avg. g						
National	0.5	0.5	0.5	0.5	0.5	0.5
QLD	0.5	0.5	0.5	0.5^	0.5^	0.2^
Base – avg. 'points'						
National	2	2	2	2	2	1
QLD	3	2	2^	2^	2^	
Crystal – avg. 'points'						
National	2	2	2	2	2	1
QLD	2	2	1.5	1	1	1



^=n<10

Are consumers sensitive to changes in purity? *Yeah Naah*

	2010	2011	2012	2013	2014	2015
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National	0.5	0.5	0.5	0.5	0.5	0.5
QLD	0.5	0.5	0.5	0.5^	0.5^	0.2^
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Putting local load and purity together



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So..... What?

- Consumers are relatively insensitive to purity changes
- Changes in sewerage load of methamphetamine appears to be largely accounted for by changes in purity
- Just like every other source of drug related data, wastewater epidemiology requires triangulation with:
 - Indicator data (local purity)
 - Consumer data (volumes consumed)