



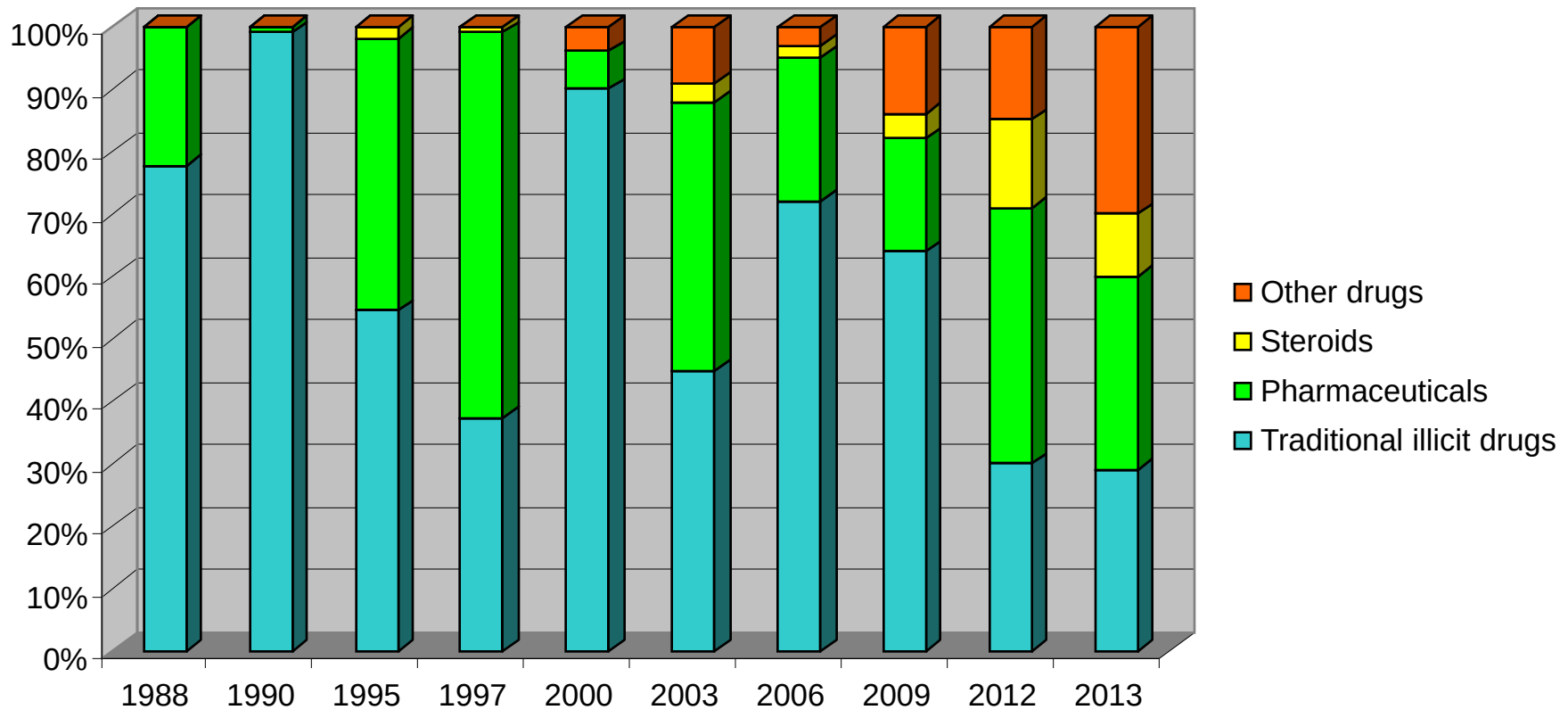
**Victoria Police
Forensic Services
Department**

The Evolving Victorian Illicit Drug Market – 1988 to 2013

Drugs (by category) detected in Victoria 1988 to 2013



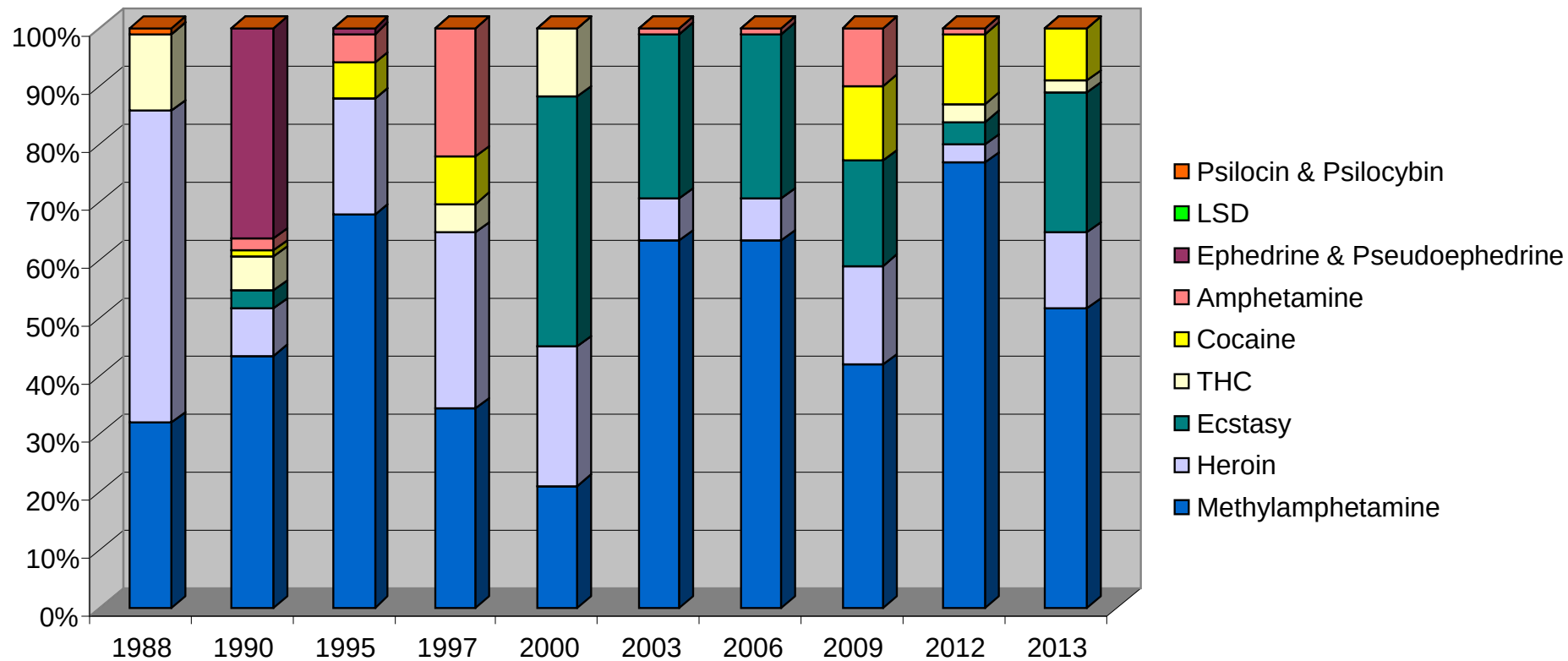
**Victoria Police
Forensic Services
Department**



Traditional illicit drugs snapshot 1988 to 2013



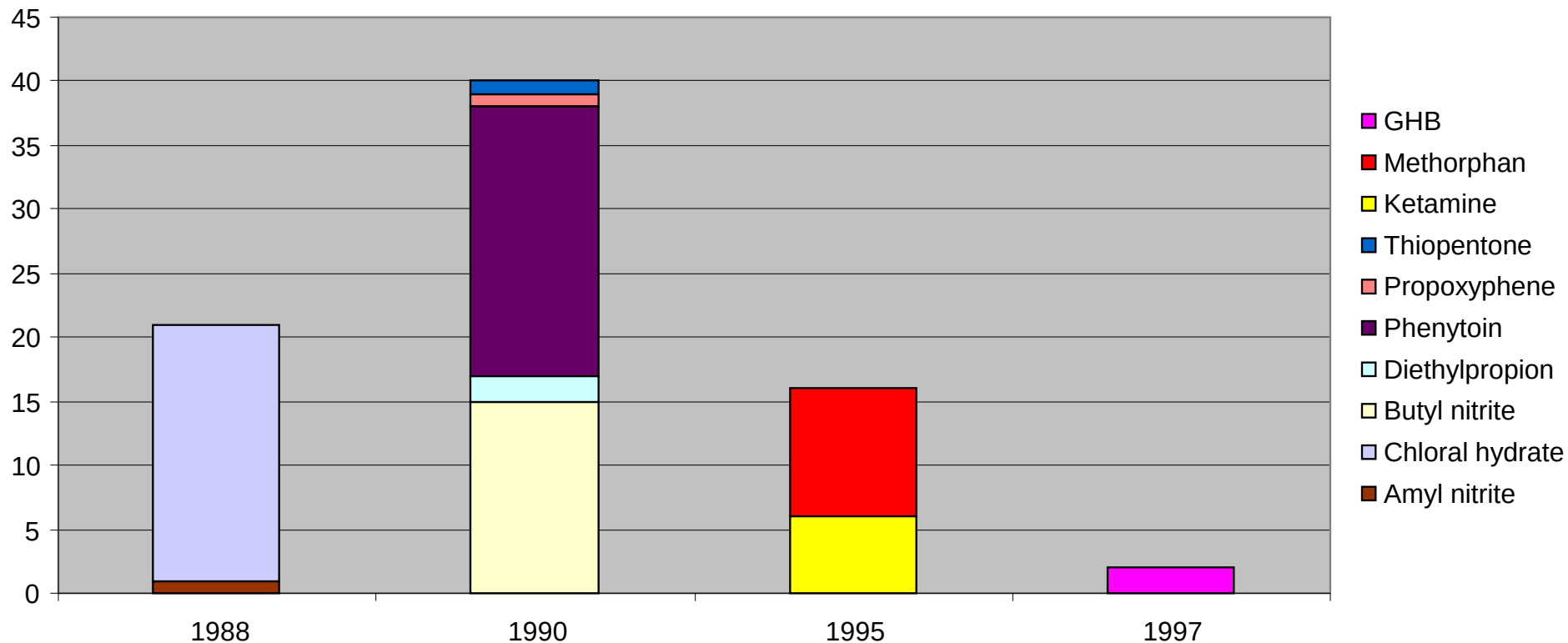
**Victoria Police
Forensic Services
Department**



Other drugs 1988 to 1997



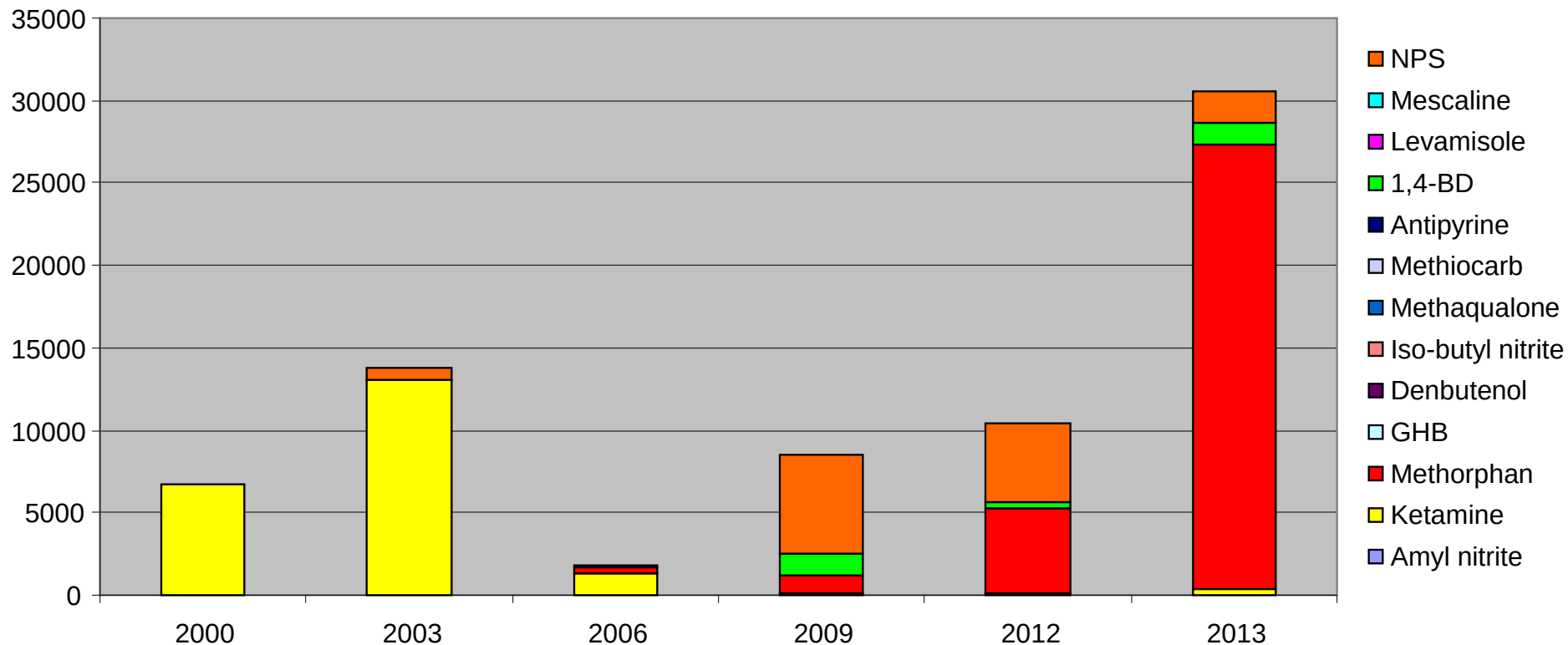
**Victoria Police
Forensic Services
Department**



Other drugs 2000 to 2013



**Victoria Police
Forensic Services
Department**



New Psychoactive Substances summary



**Victoria Police
Forensic Services
Department**

NPS category	2009	2010	2011	2012	2013
Cathinones	4.4%	1.5%	1.2%	6.0%	15.3%
Phenethylamines	1.1%	3.0%	55.0%	30.2%	33.2%
Piperazines	94.4%	94.9%	39.8%	13.2%	31.3%
Plant Based	0.0%	0.0%	0.0%	0.1%	0.0%
Synthetic Cannabinoids	0.0%	0.0%	0.9%	9.8%	3.9%
Tryptamines	0.1%	0.6%	0.1%	1.6%	1.9%
Other NPS	0.0%	0.0%	<0.1	4.7%	13.6%
NPS mixtures	0.1%	0.0%	3.0%	34.4%	0.8%

New Psychoactive Substances 2013



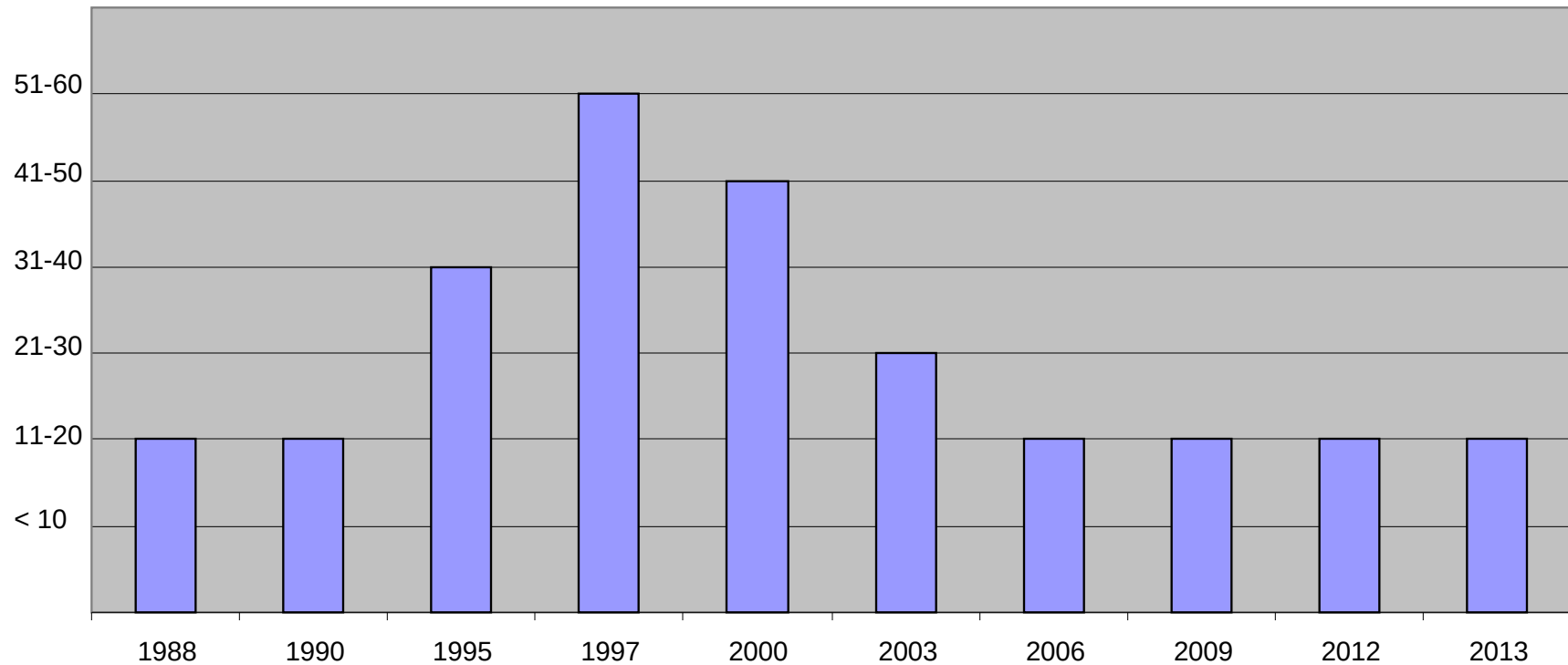
**Victoria Police
Forensic Services
Department**

Category	Most prevalent	Percentage
Cathinones	Methylone	78%
Phenethylamines	25I-NBOMe	52%
Piperazines	TFMPP	65%
Synthetic Cannabinoids	UR-144 + XLR-11	54%
Tryptamines	Tryptamine	73%
Other EPS	1,3-Dimethylamylamine	96%
Cathinones & Phenethylamines	MDPV + 2C-I	67%
Cathinones & Synthetic Cannabinoids	MDPV + XLR-11	100%
Phenethylamines & Other NPS	3-Methiopropamine + Methoxetamine	100%

Purity - Heroin



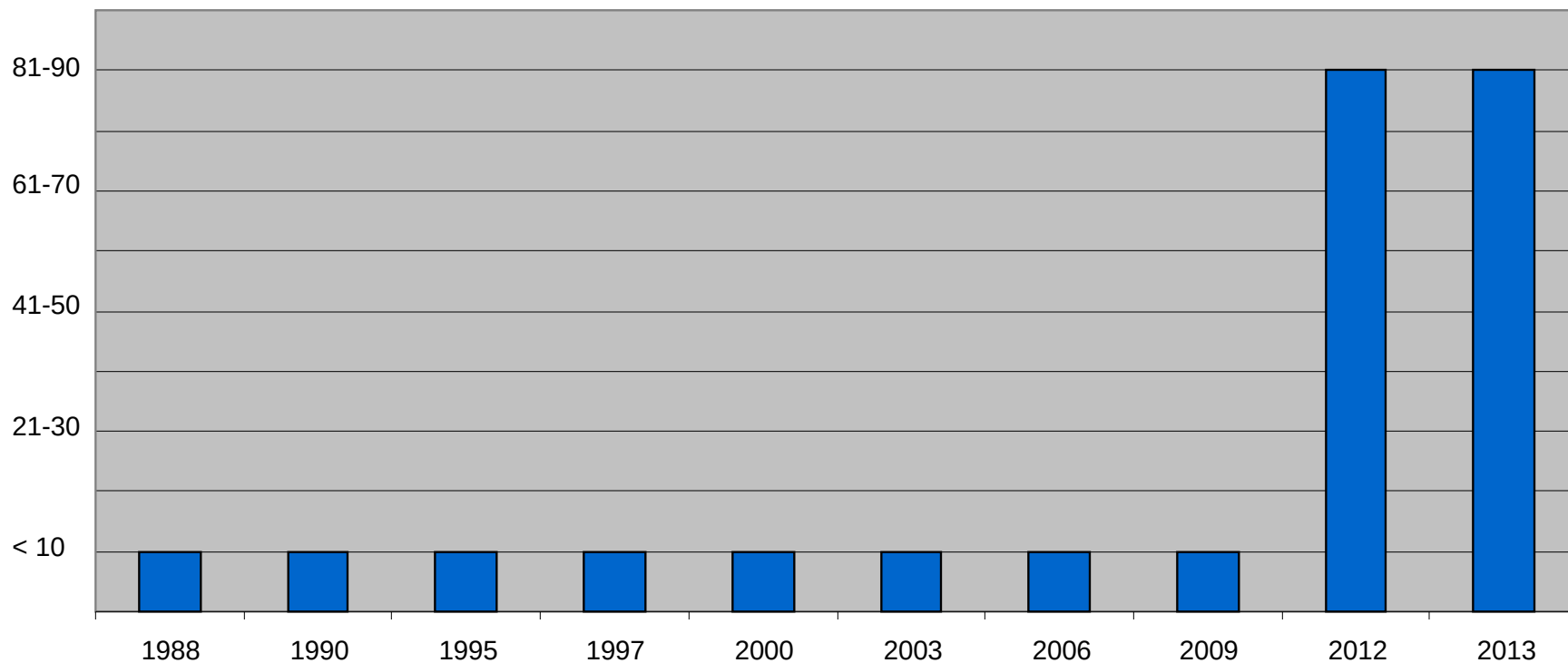
**Victoria Police
Forensic Services
Department**



Purity - Methylamphetamine



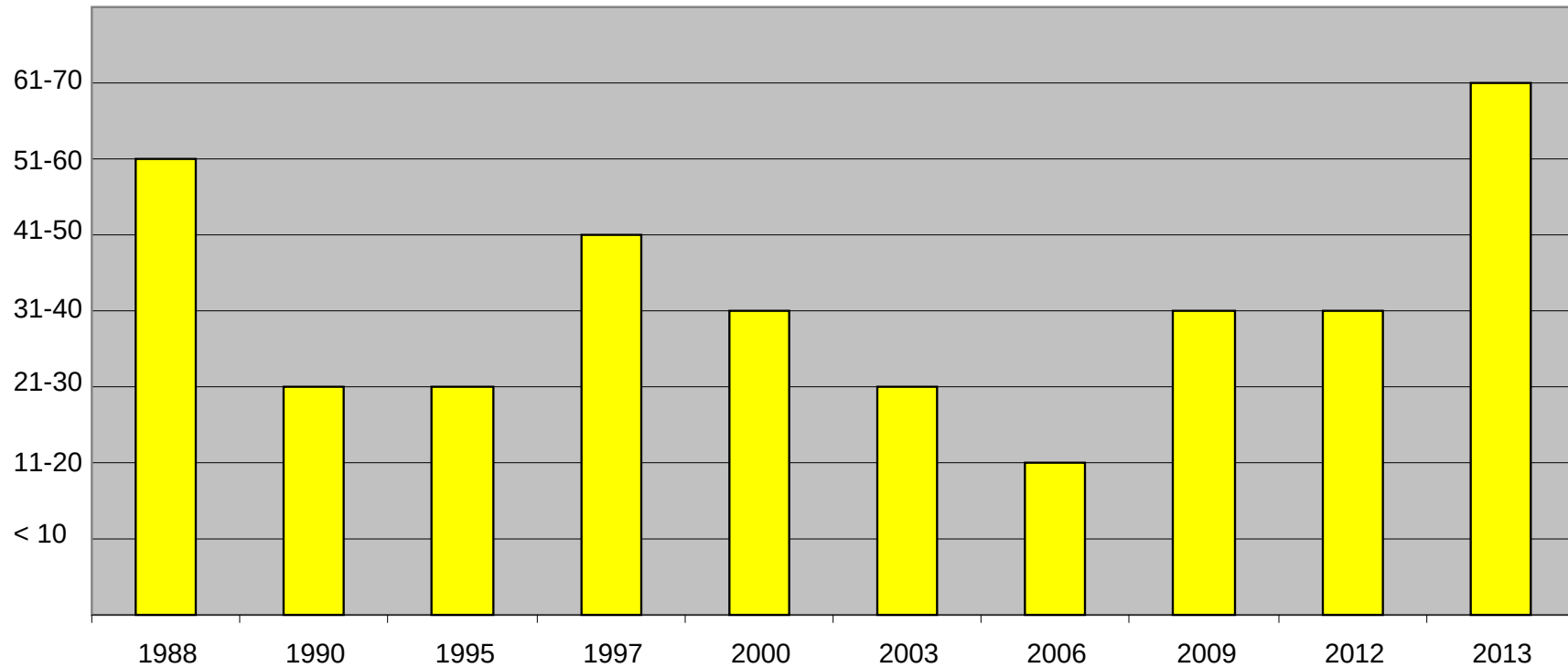
**Victoria Police
Forensic Services
Department**



Purity - Cocaine



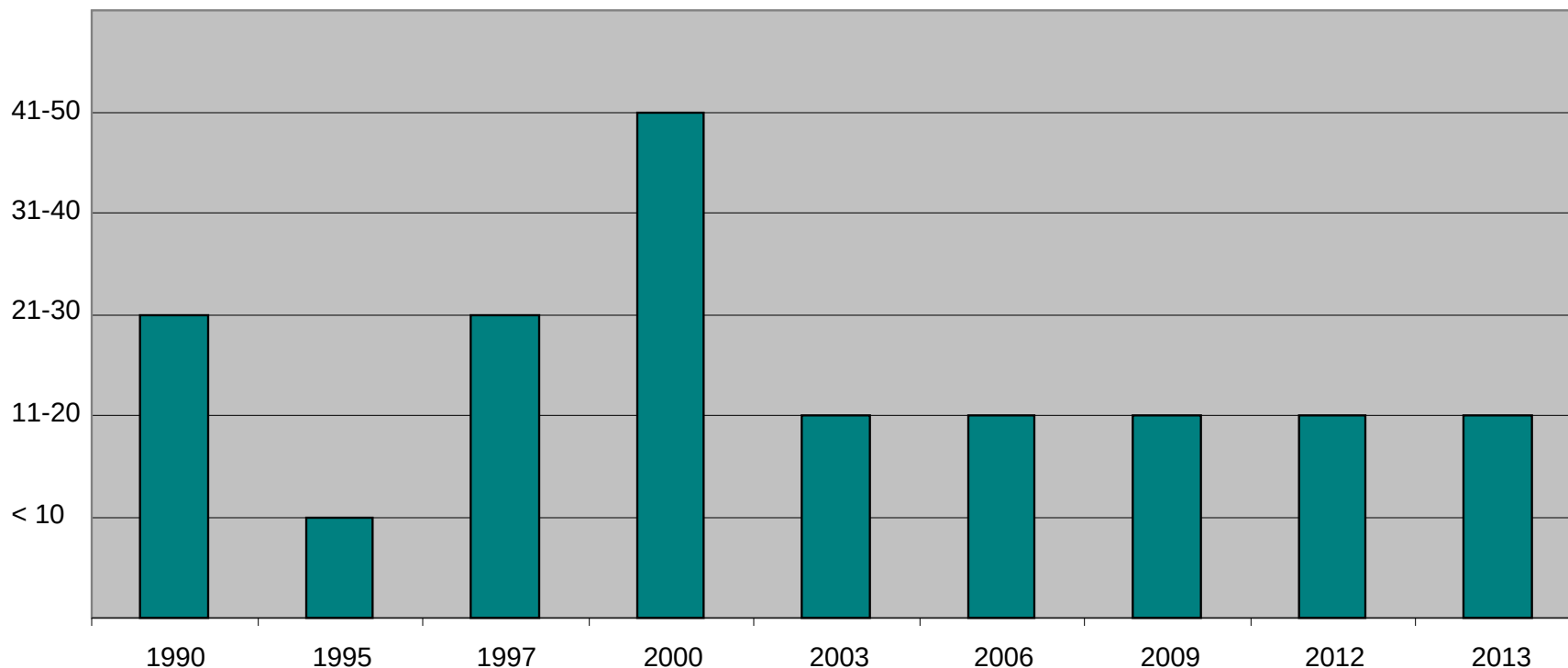
**Victoria Police
Forensic Services
Department**



Purity - Ecstasy



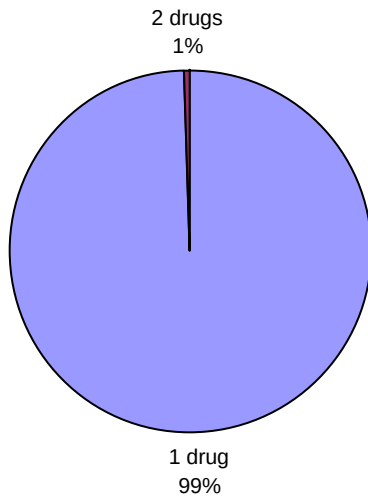
**Victoria Police
Forensic Services
Department**



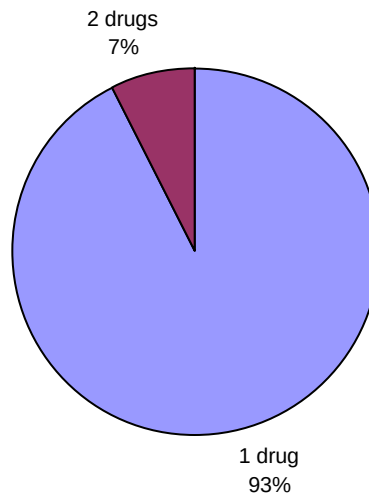
Number of drugs per sample



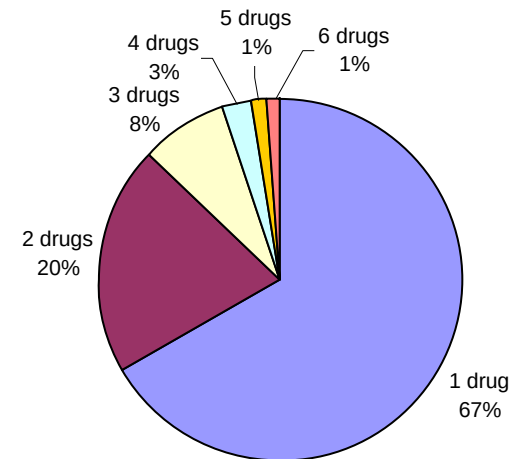
**Victoria Police
Forensic Services
Department**



1988



1995



2013

Most dominant drug forms



**Victoria Police
Forensic Services
Department**

Heroin	powder/compressed substance
THC	resinous substance
Cocaine	powder/compressed substance
Ecstasy	tablet
LSD	ticket
Steroids	liquid
NPS	tablets

Powders



**Victoria Police
Forensic Services
Department**



Tablets



**Victoria Police
Forensic Services
Department**



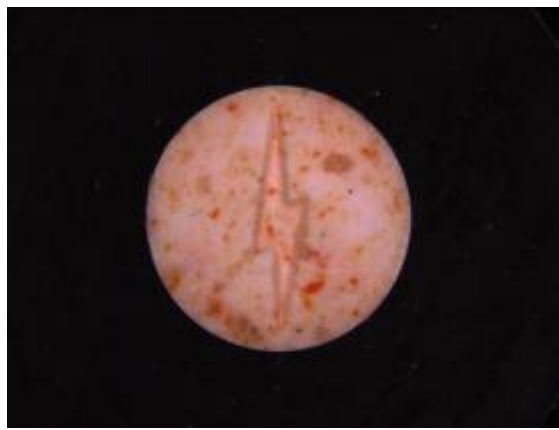
25I-NBOMe in tablet form



Victoria Police
Forensic Services
Department



25I-NBOMe



25I-NBOMe +
methylamphetamine

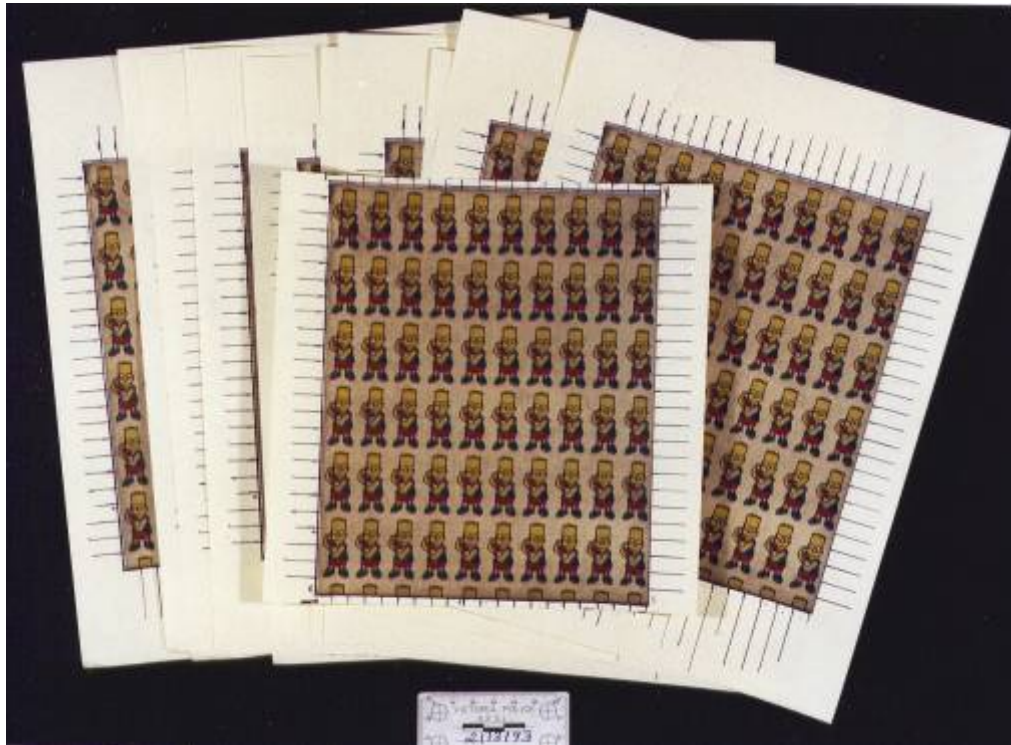


25I-NBOMe +
25C-NBOMe +
methylamphetamine

LSD tickets



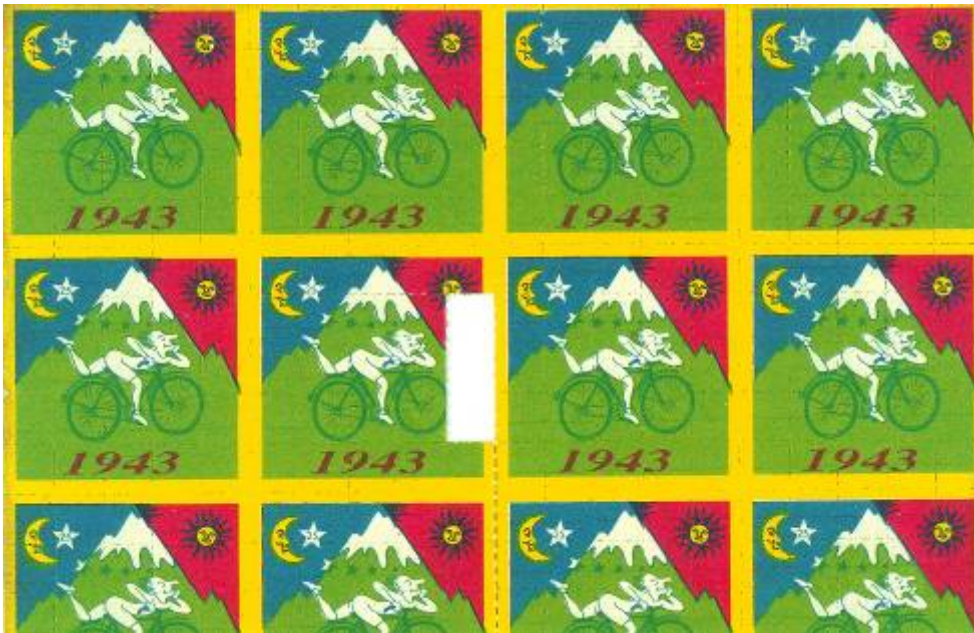
**Victoria Police
Forensic Services
Department**



Tickets – LSD or NBOMe?



Victoria Police
Forensic Services
Department



LSD



25C-NBOMe + 1,4-BD

Tickets – LSD or NBOMe?



**Victoria Police
Forensic Services
Department**



Tickets – LSD or NBOMe?



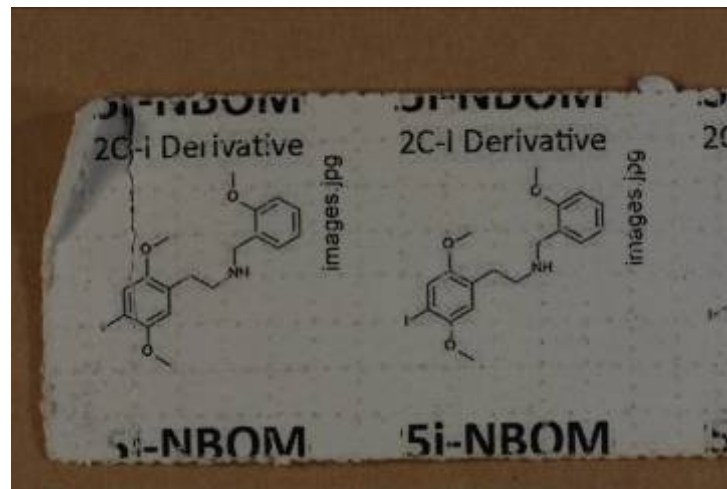
**Victoria Police
Forensic Services
Department**



Tickets – LSD or NBOMe?



Victoria Police
Forensic Services
Department



alpha - PVP

Steroids



Victoria Police
Forensic Services
Department



Methylamphetamine Forms



**Victoria Police
Forensic Services
Department**

Most dominant form

- 1988 – 1997 powder/compressed substances
- 2000 – 2012 tablets
- 2013 crystal

Crystal MA



**Victoria Police
Forensic Services
Department**



Crystal MDMA



**Victoria Police
Forensic Services
Department**



Crystal methamphetamine



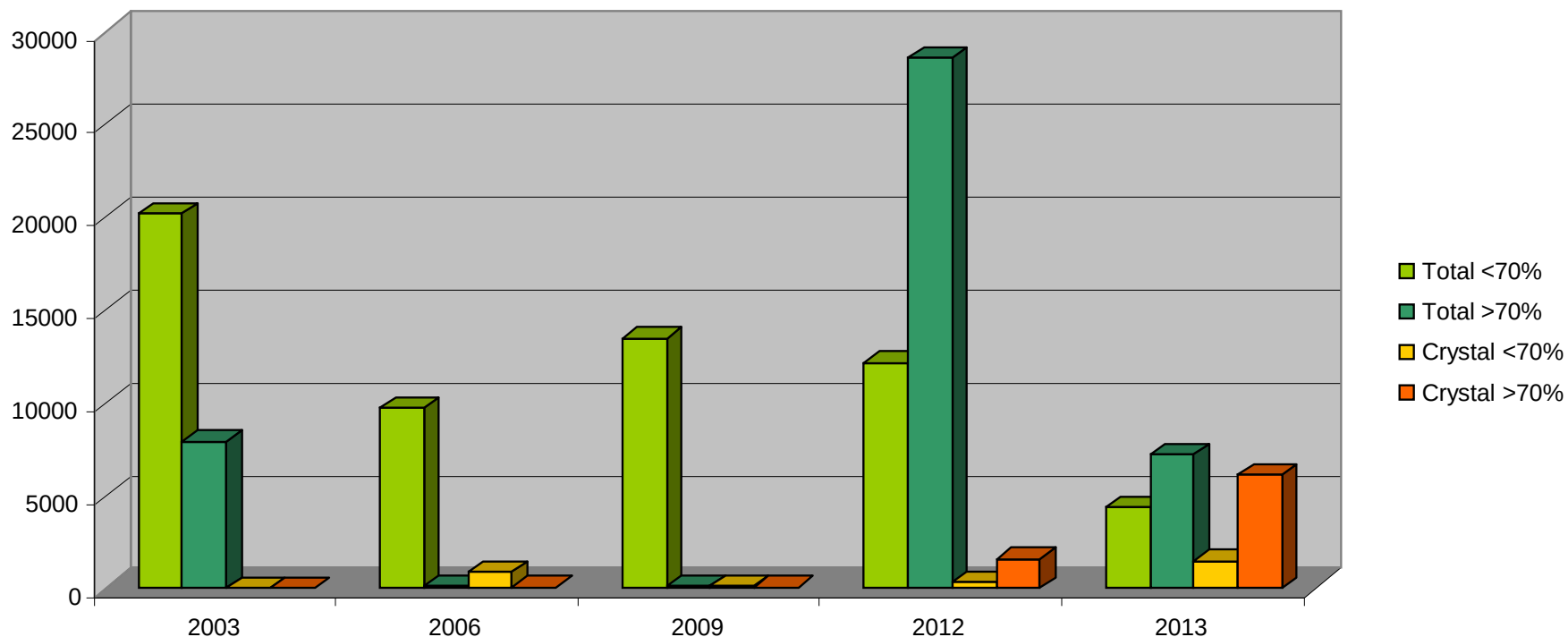
**Victoria Police
Forensic Services
Department**



Methylamphetamine and “ICE”



**Victoria Police
Forensic Services
Department**



CHANGES IN TECHNOLOGY AND ANALYTICAL PROCESSES



**Victoria Police
Forensic Services
Department**



Spotting TLC plates



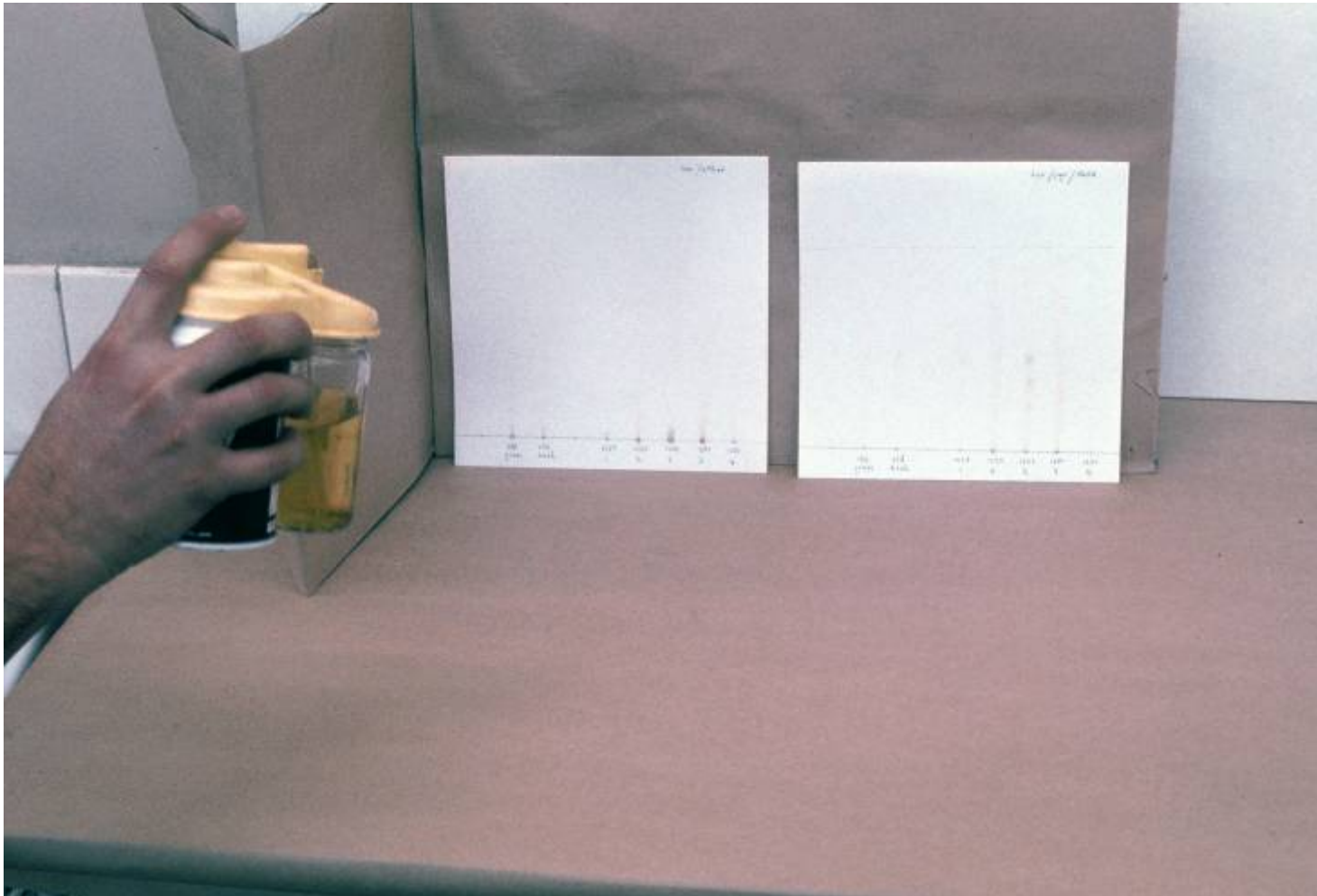
**Victoria Police
Forensic Services
Department**



Spraying TLC plates



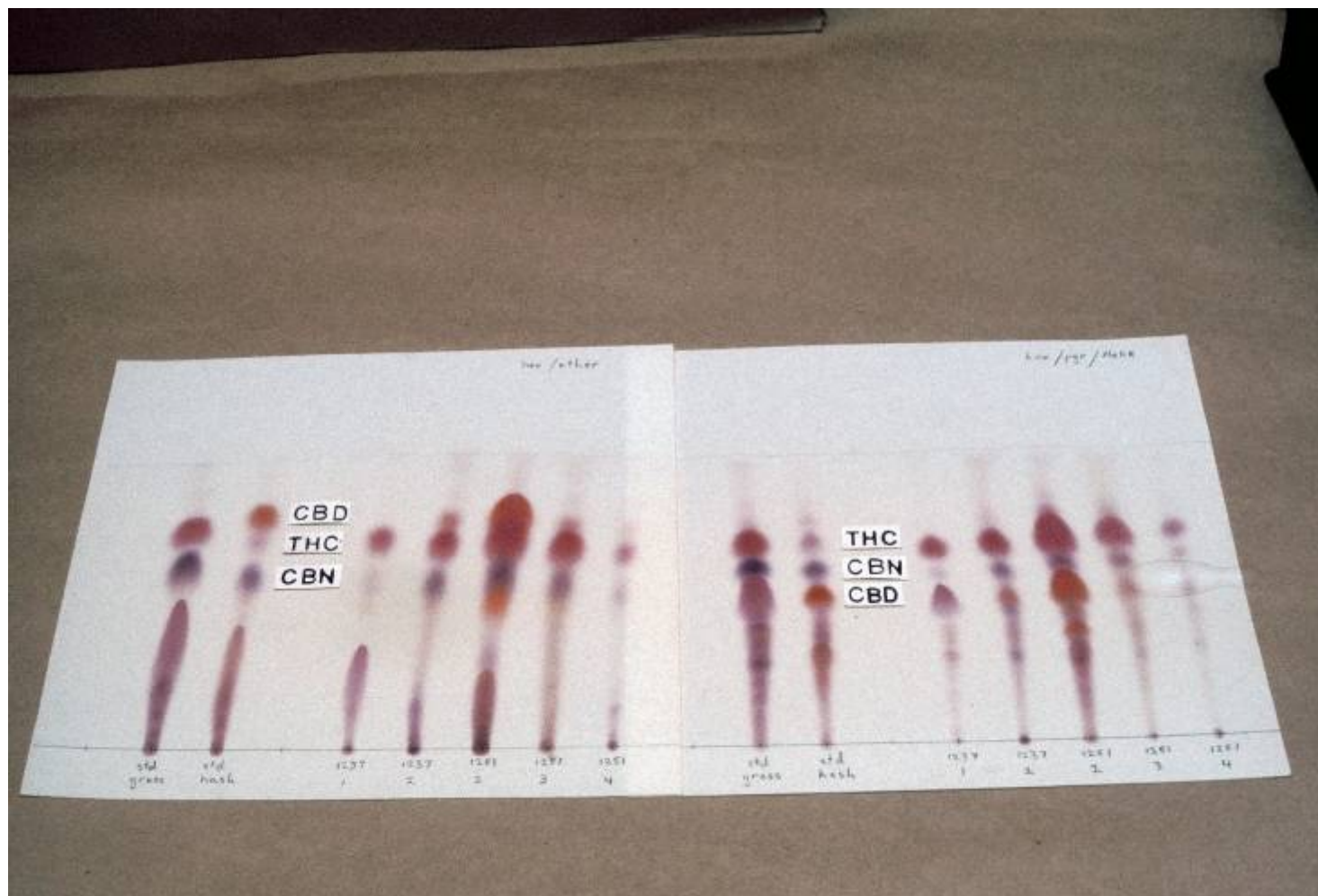
**Victoria Police
Forensic Services
Department**



Developed TLC plates



Victoria Police
Forensic Services
Department



GC with integrator – 1970s



**Victoria Police
Forensic Services
Department**



Gas Chromatograph 1970s



**Victoria Police
Forensic Services
Department**



Chart recorder



**Victoria Police
Forensic Services
Department**



Gas Chromatograph late 1980s



**Victoria Police
Forensic Services
Department**



Gas Chromatograph Mass Spectrometer



**Victoria Police
Forensic Services
Department**



Drug Analysis GCs 1990 to 2006



**Victoria Police
Forensic Services
Department**



GCMS Room



**Victoria Police
Forensic Services
Department**



GC & GCMS Room 2012



**Victoria Police
Forensic Services
Department**





**Victoria Police
Forensic Services
Department**

Acknowledgements

- Forensic Drug Branch staff, past and present, who have contributed to the production of the analytical results presented.
- Special thanks to members of CDI who tirelessly analyse tens of thousands of samples each year which would otherwise not be analysed prior to their destruction in order for us to obtain this type of intelligence data.