



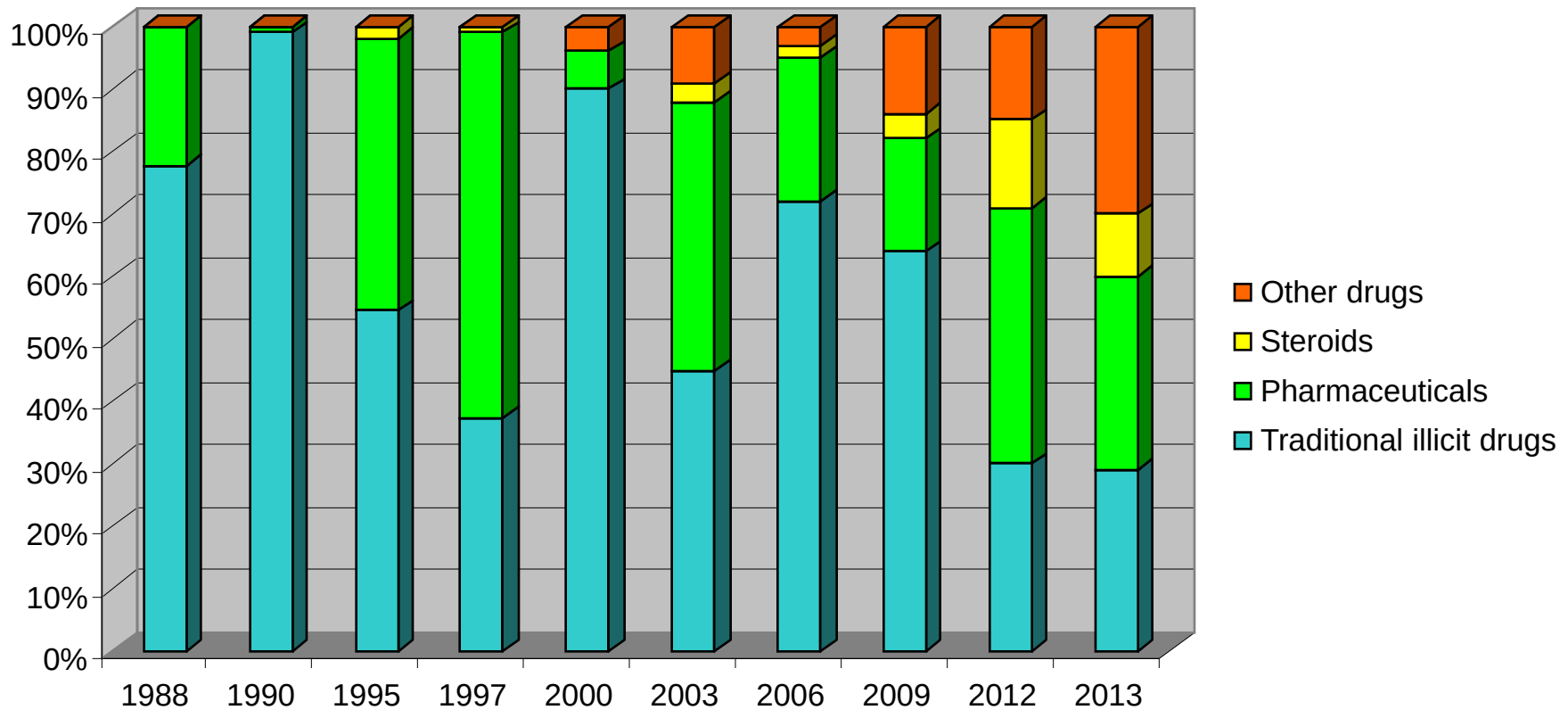
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The Evolving Victorian Illicit Drug Market – 1988 to 2013

Drugs (by category) detected in Victoria 1988 to 2013



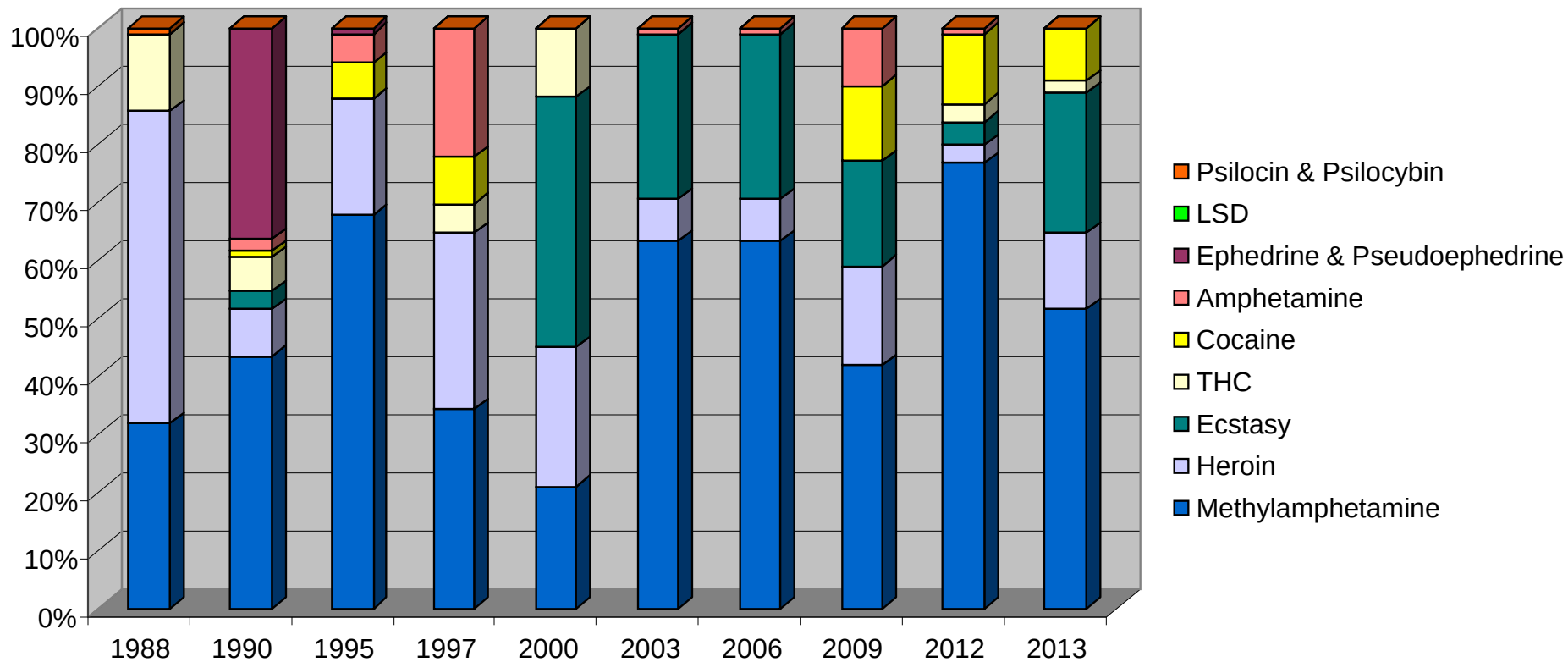
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Traditional illicit drugs snapshot 1988 to 2013



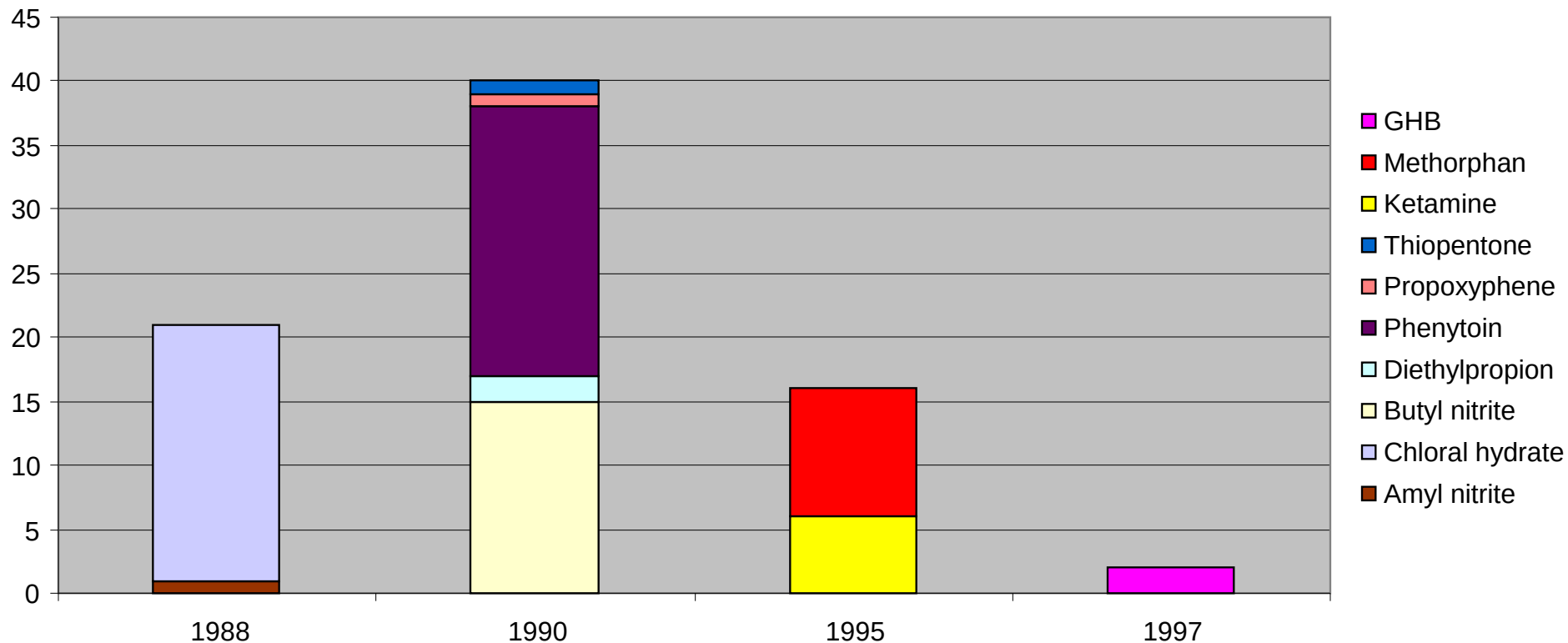
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Other drugs 1988 to 1997



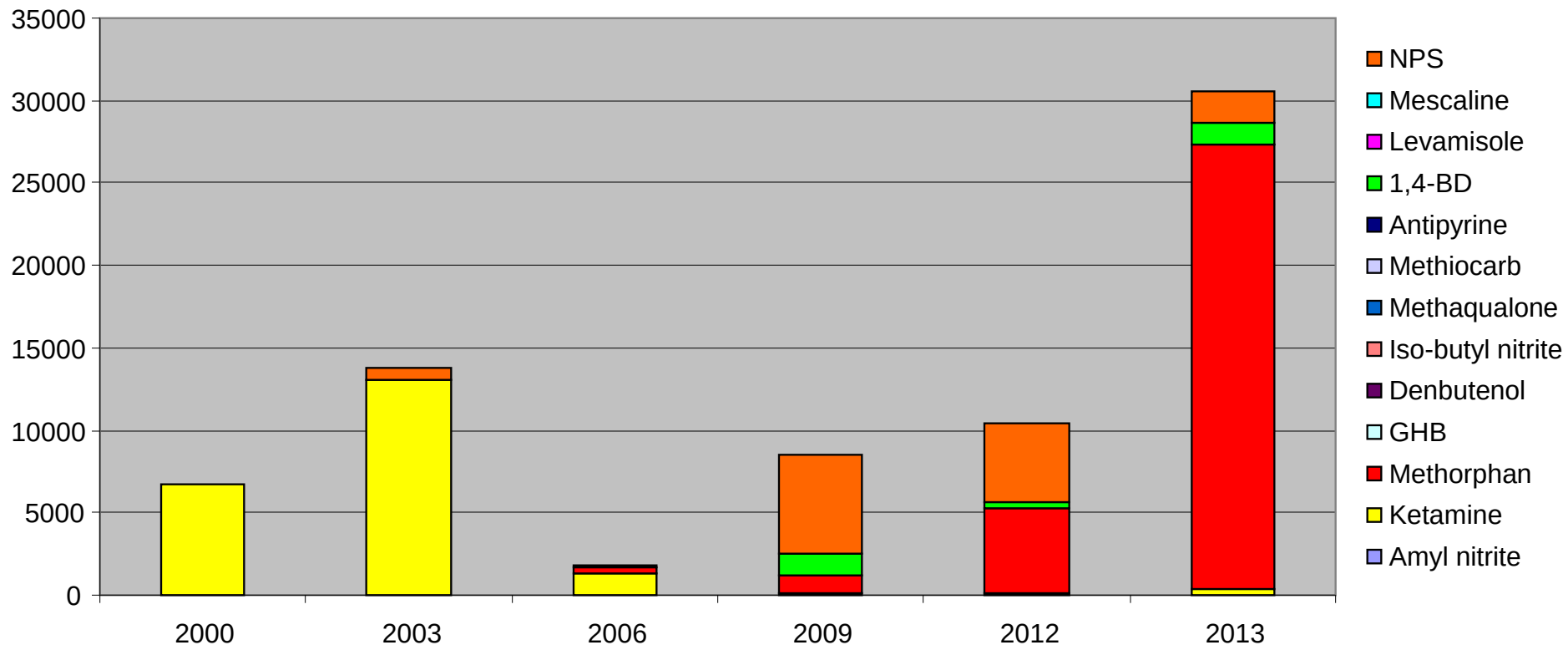
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Other drugs 2000 to 2013



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New Psychoactive Substances summary



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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



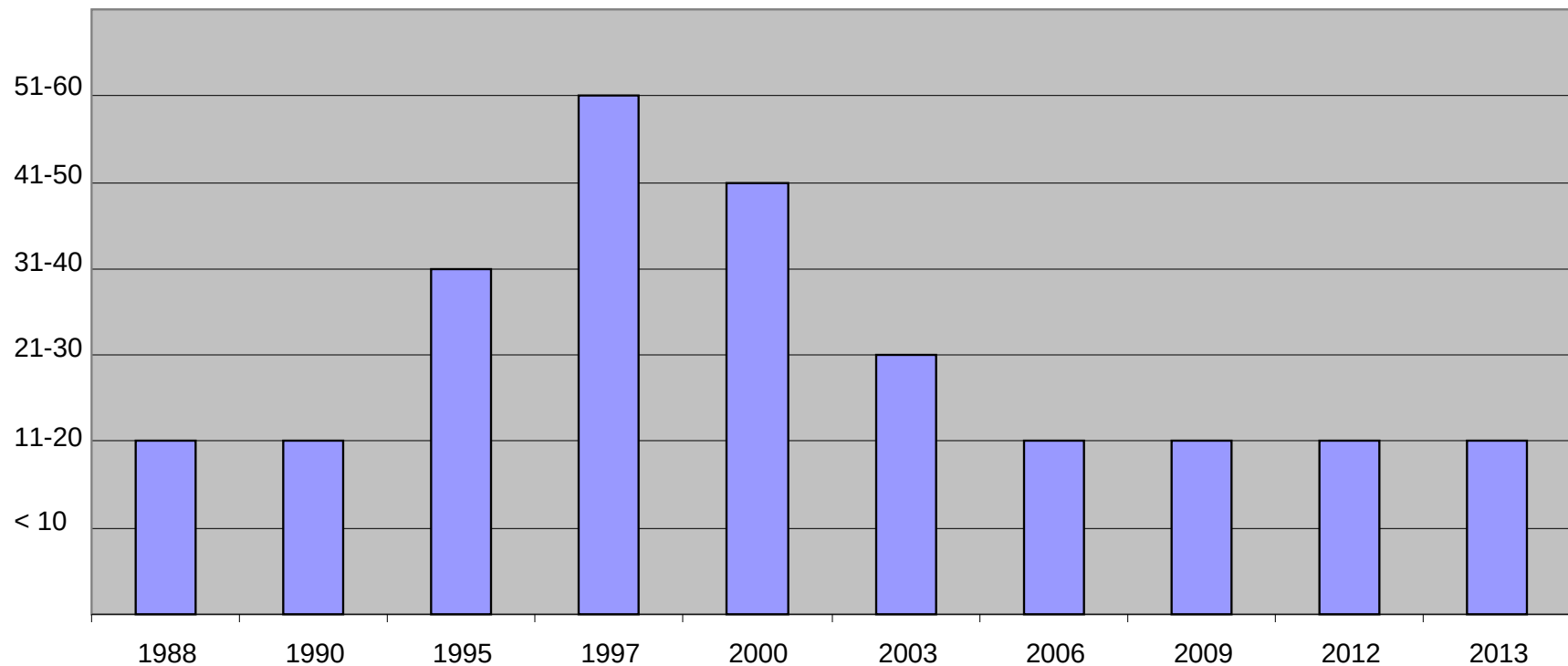
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Category	Most prevalent	Percentage
Cathinones	Methylone	78%
Phenethylamines	25I-NBOMe	52%
Piperazines	TFMPP	65%
Synthetic Cannabinoids	UR-144 + XLR-11	54%
Tryptamines	Tryptamine	73%
Other EPS	1,3-Dimethylamylamine	96%
Cathinones & Phenethylamines	MDPV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

Purity - Heroin



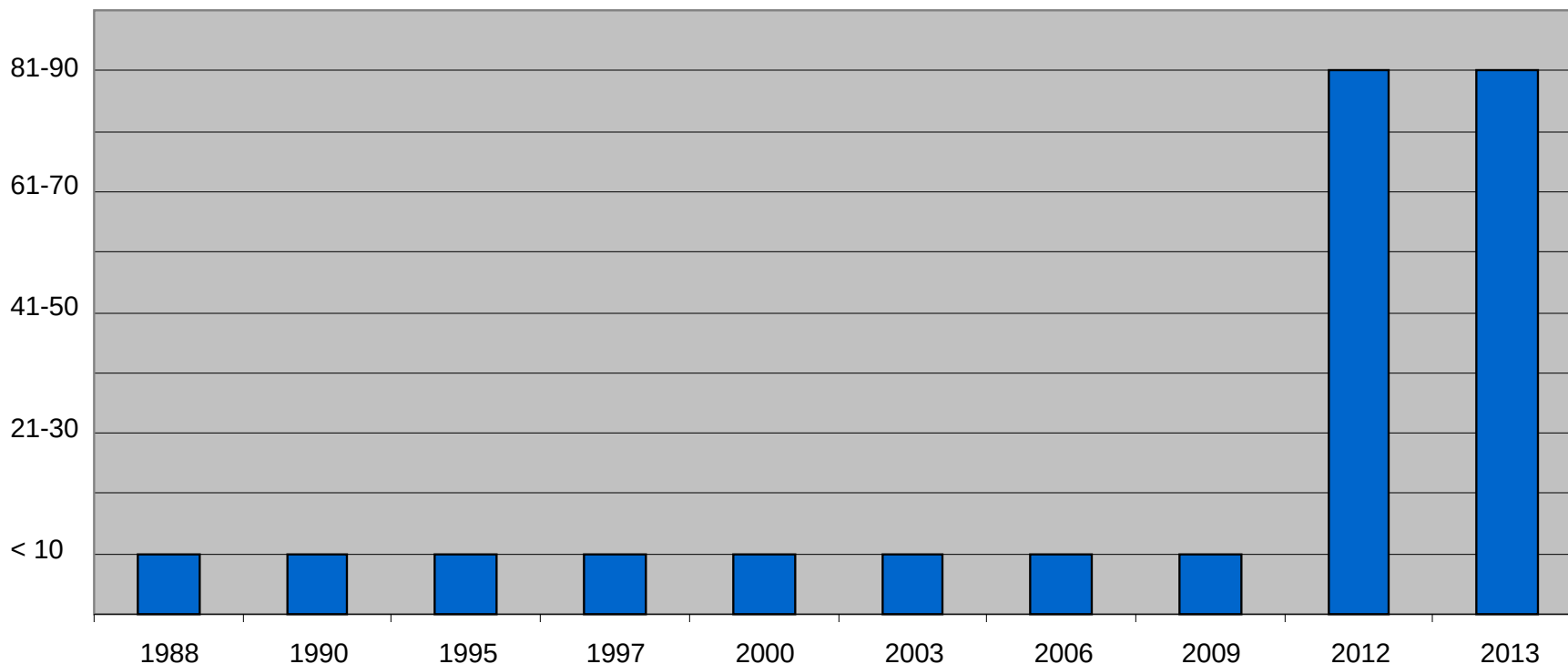
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Purity - Methylamphetamine



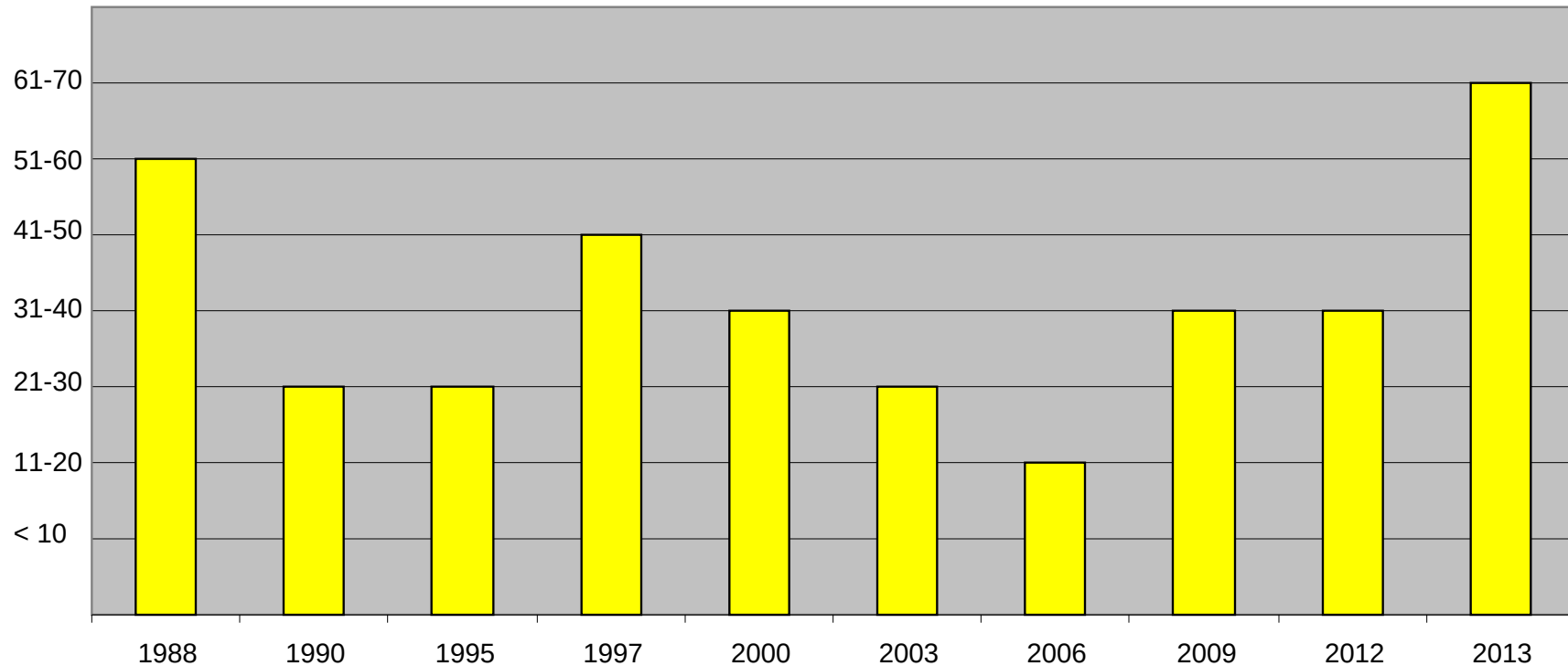
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Purity - Cocaine



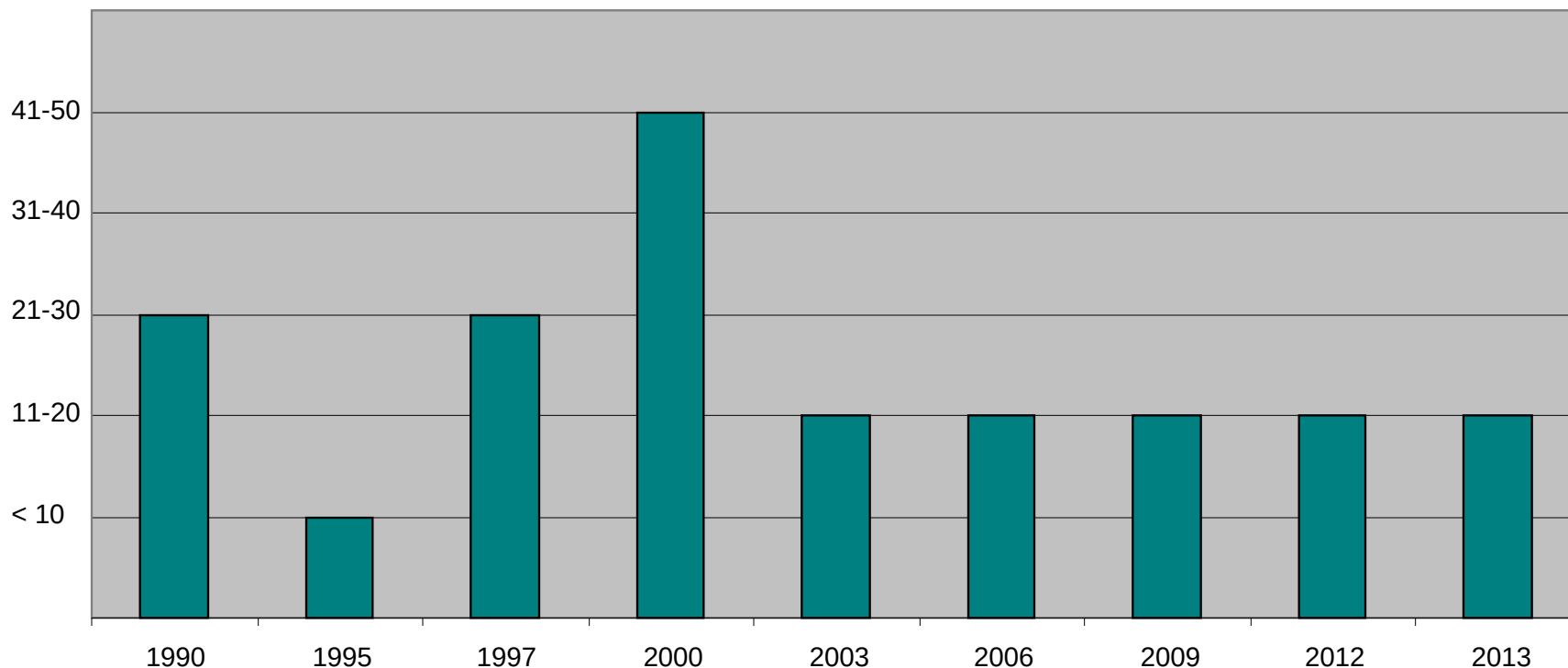
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Purity - Ecstasy



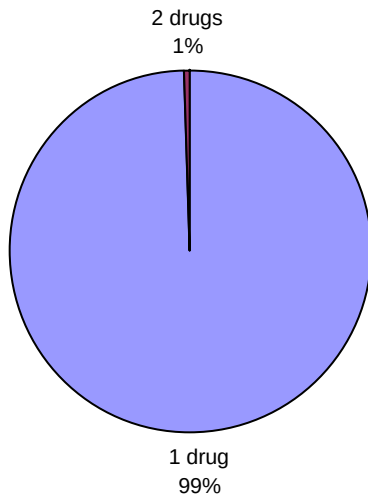
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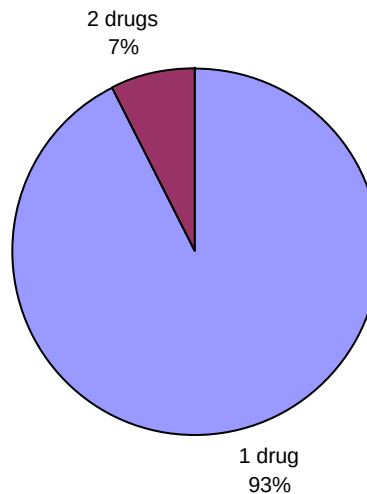
Number of drugs per sample



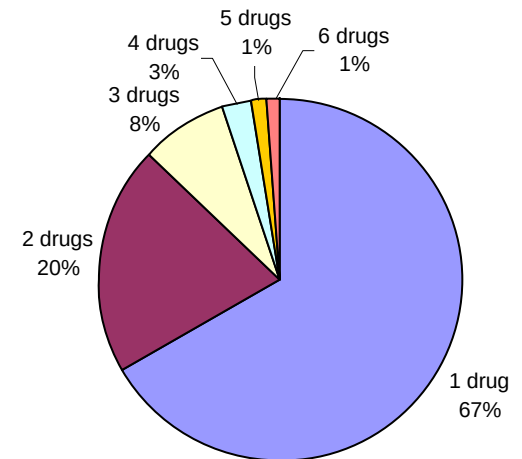
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1988



1995



2013

Most dominant drug forms



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

Powders



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Tablets



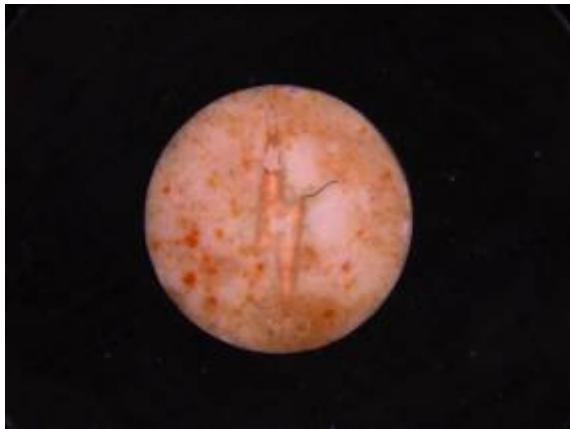
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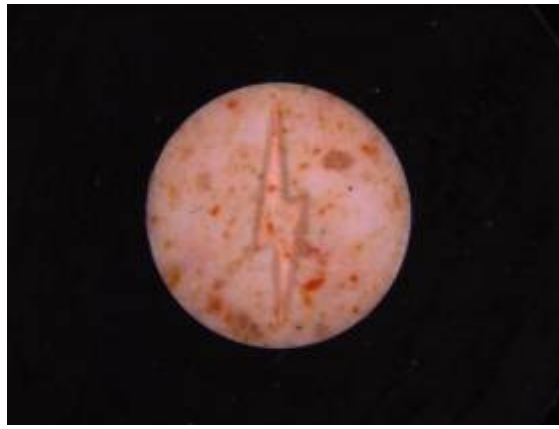
25I-NBOMe in tablet form



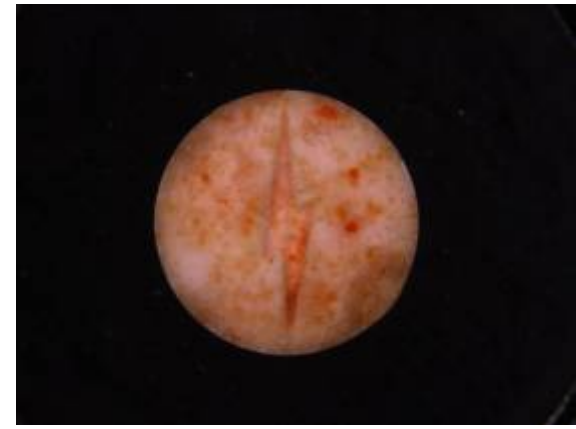
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25I-NBOMe



25I-NBOMe +
methylamphetamine

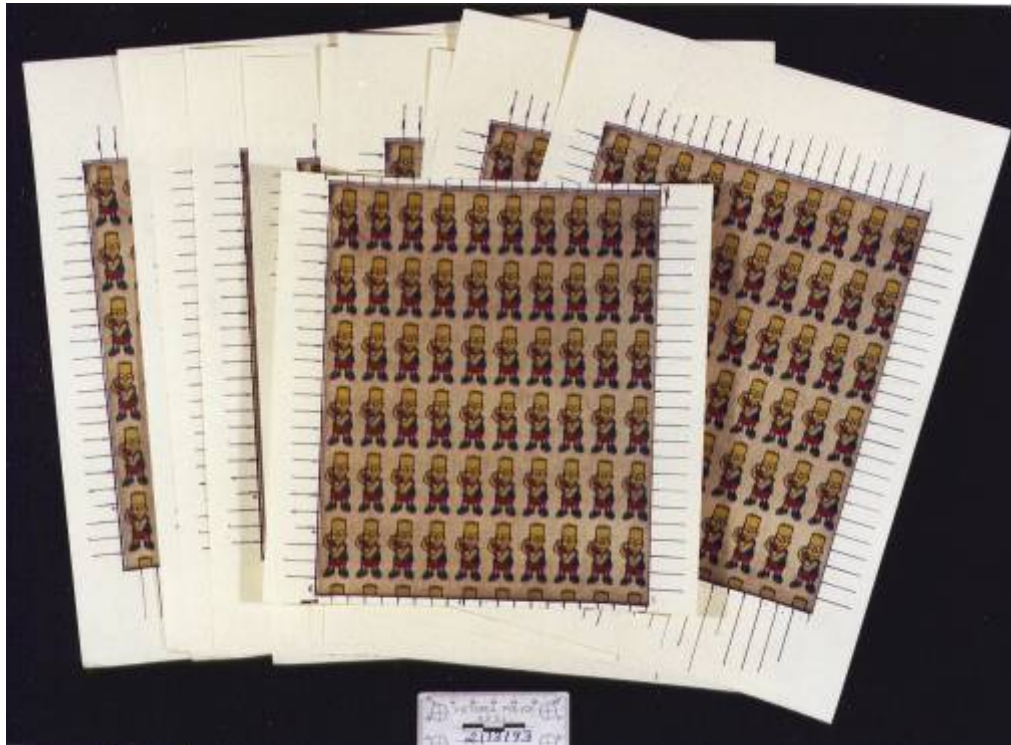


25I-NBOMe +
25C-NBOMe +
methylamphetamine

LSD tickets



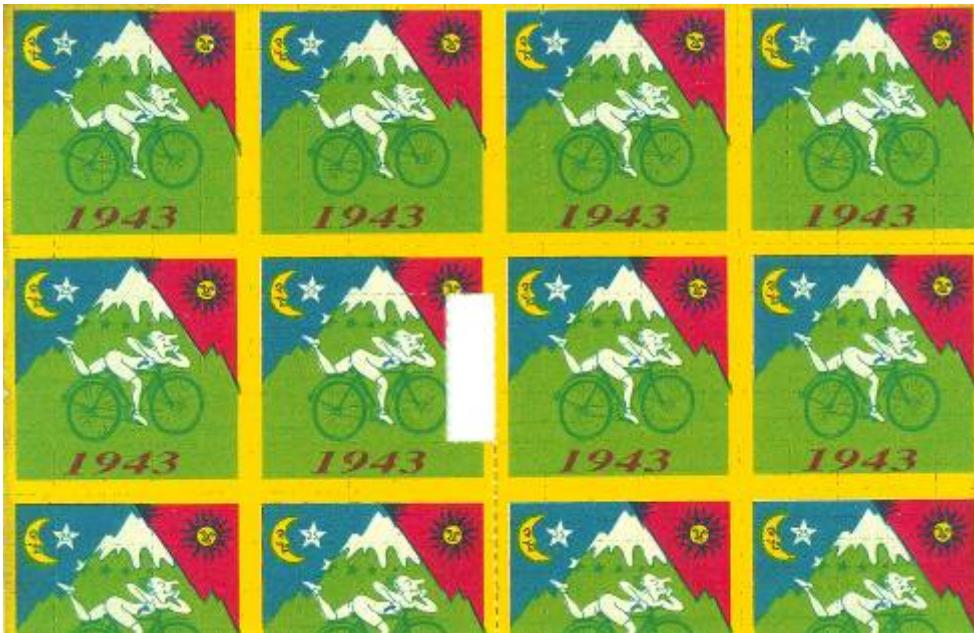
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Tickets – LSD or NBOMe?



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LSD



25C-NBOMe + 1,4-BD

Tickets – LSD or NBOMe?



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Tickets – LSD or NBOMe?



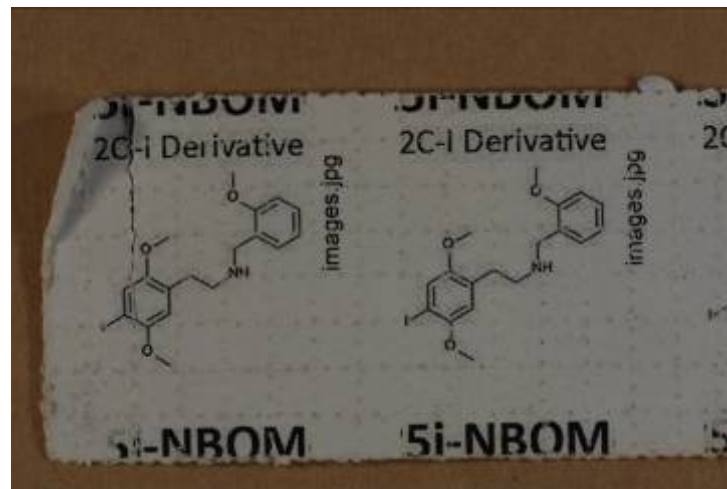
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Tickets – LSD or NBOMe?



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alpha - PVP

Steroids



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Methylamphetamine Forms



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Most dominant form

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

Crystal MA



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Crystal MDMA



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Crystal methamphetamine



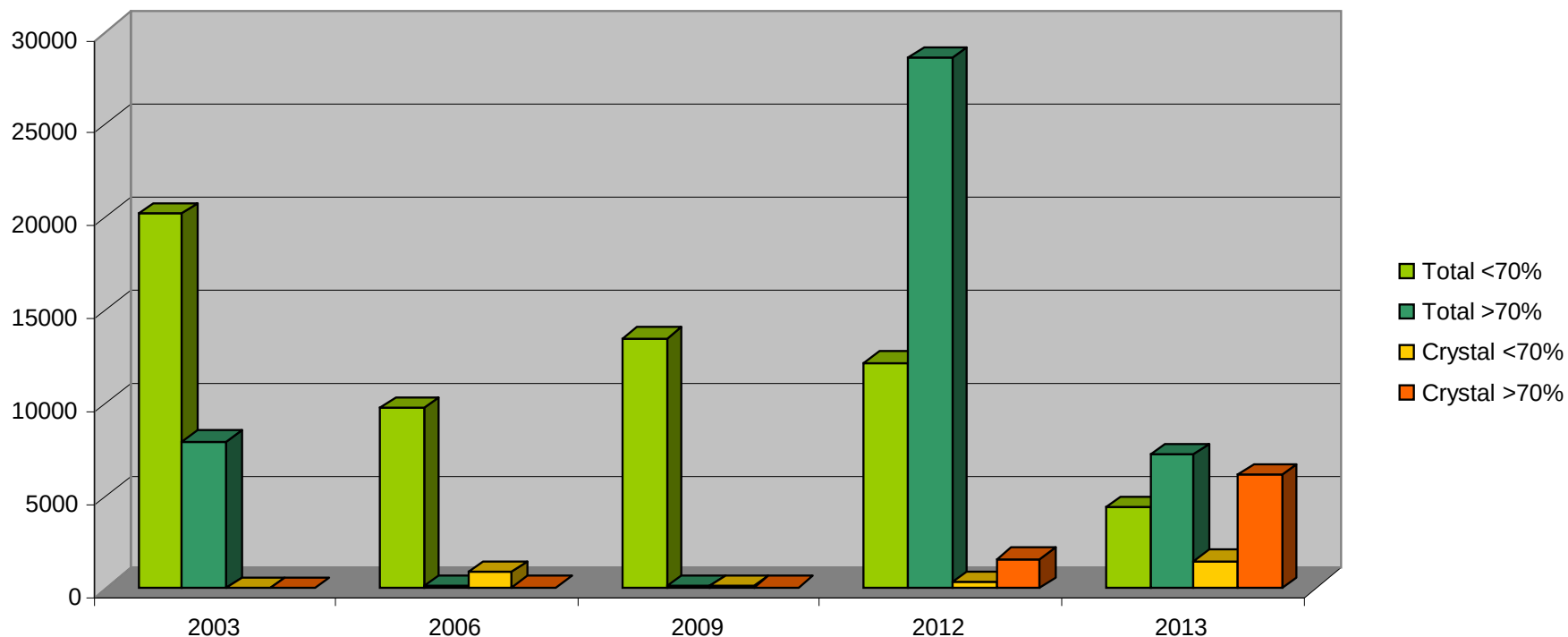
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Methylamphetamine and “ICE”



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CHANGES IN TECHNOLOGY AND ANALYTICAL PROCESSES



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Spotting TLC plates



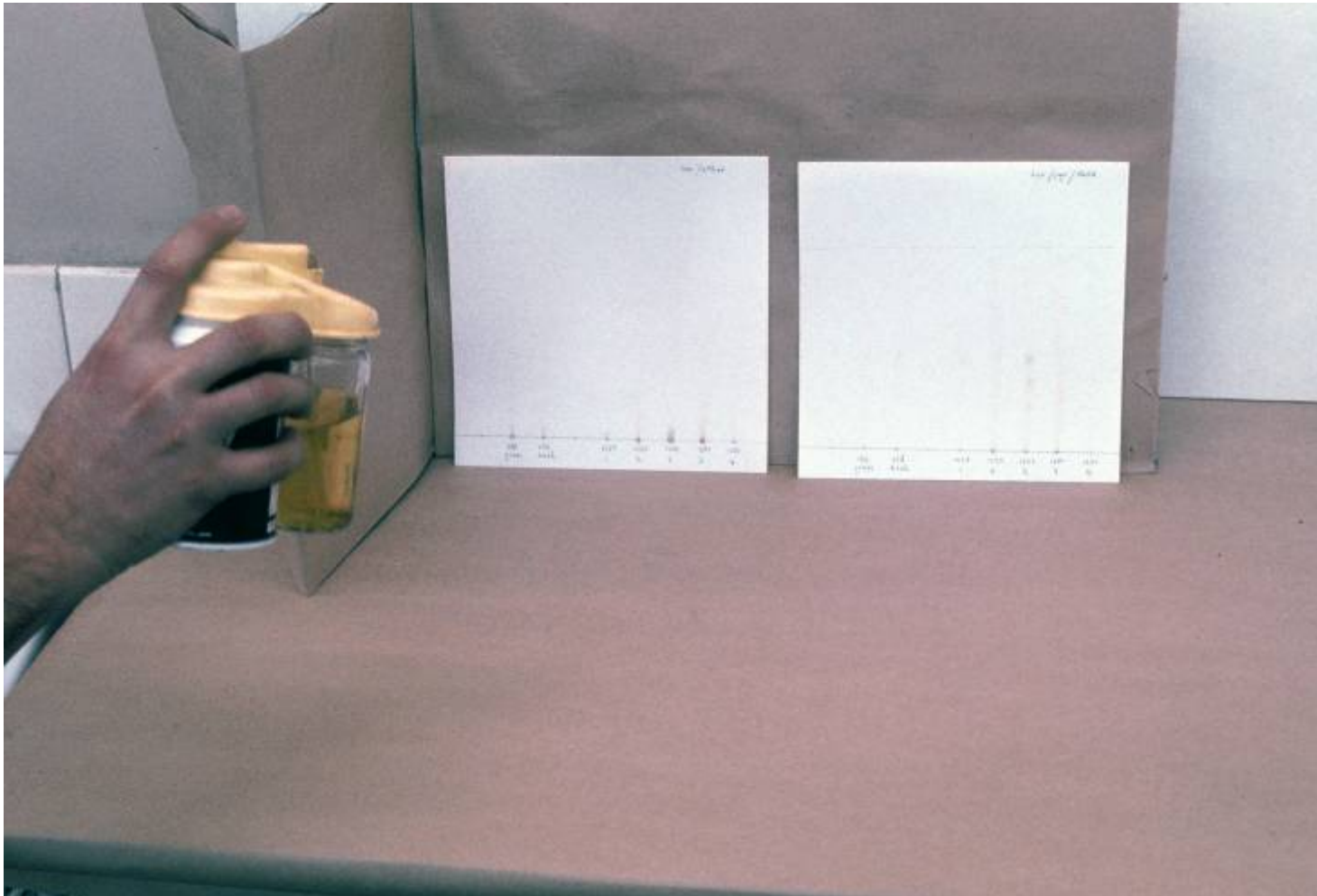
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Spraying TLC plates



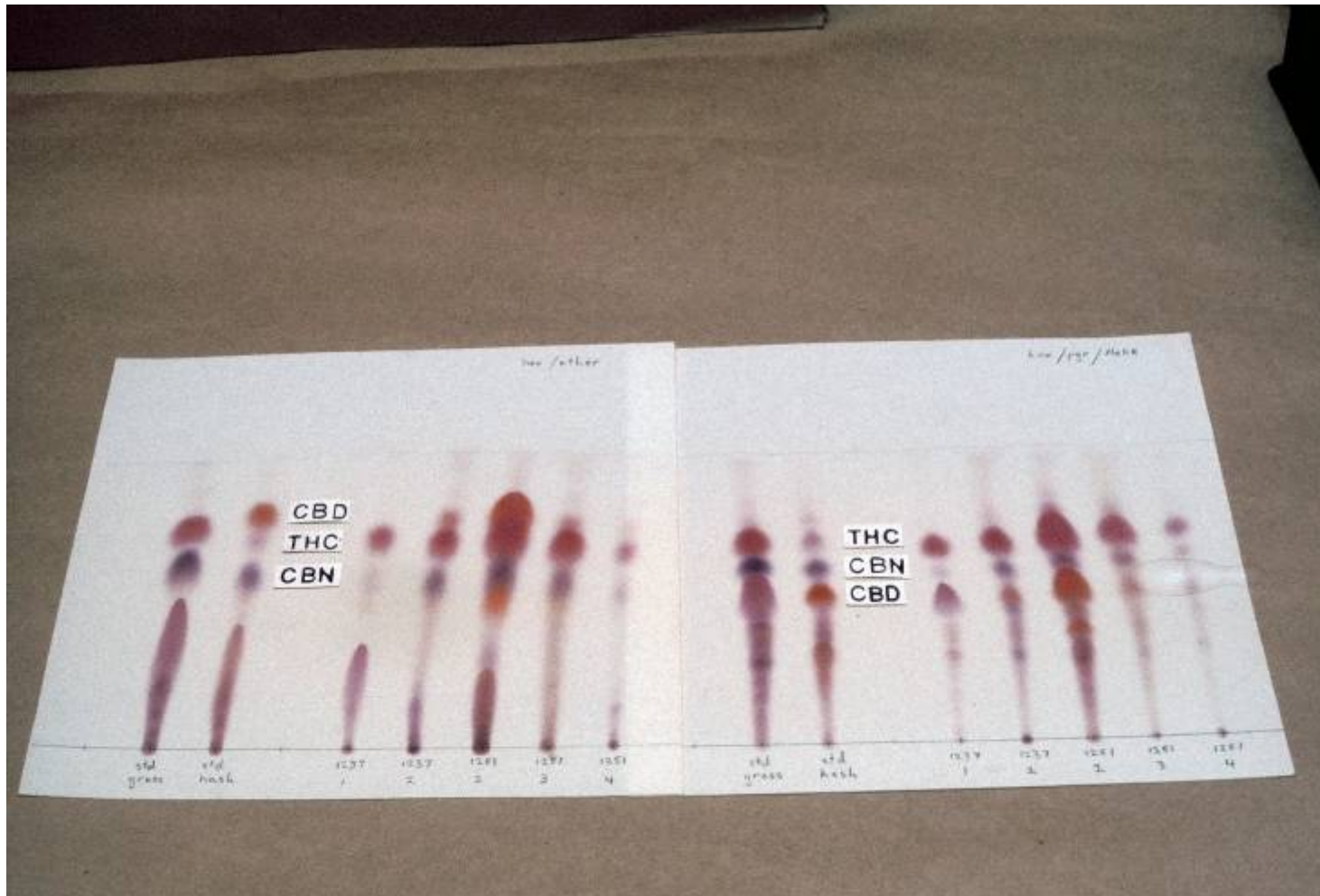
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Developed TLC plates



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GC with integrator – 1970s



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Gas Chromatograph 1970s



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Chart recorder



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Gas Chromatograph late 1980s



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Gas Chromatograph Mass Spectrometer



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Drug Analysis GCs 1990 to 2006



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GCMS Room



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GC & GCMS Room 2012



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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.