Flavoured, non-cigarette tobacco for sale in the USA: an inventory analysis of Internet retailers

Tobacco companies flavour their products in order to recruit new, younger users. Flavours like menthol, cherry, grape and chocolate mask the harshness of tobacco, making it easier to become addicted. These flavours also appeal to young tobacco users. In Maryland, about four in five underage cigar smokers smoke flavoured cigars. Nationally, 57% of young adult (ages 18–24) cigar smokers smoke flavoured cigars. Since 2009, menthol and tobacco are the only flavours allowed in cigarettes. As of March 2013 the federal government does not restrict flavours in tobacco products other than cigarettes, though federal courts recently upheld flavoured tobacco sales bans enacted in New York City and Providence, Rhode Island.

To inform tobacco control efforts, we conducted this study of Internet tobacco retailers to describe the variety and flavours of tobacco products for sale in the USA. We identified a convenience sample of 18 Internet tobacco retailers, selected from the top search results for various kinds of tobacco products (eg, moist snuff, cigars). Data on dissolvable tobacco came from a list maintained by the Oregon Department for Tobacco Control Research Program, American Cancer Society, 250 Williams Street NW, Atlanta, GA 30303, USA; evan.blecher@cancer.org

Table 1 Study sample of 8426 tobacco products for sale online in the USA

<table>
<thead>
<tr>
<th></th>
<th>Brands N</th>
<th>Products N</th>
<th>Any flavour %</th>
<th>Fruit %</th>
<th>Sweet %</th>
<th>Mint %</th>
<th>Liquor %</th>
<th>Menthol %</th>
<th>Other %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total</td>
<td>849</td>
<td>8426</td>
<td>22.5</td>
<td>11.9</td>
<td>5.2</td>
<td>2.9</td>
<td>2.3</td>
<td>1.6</td>
<td>3.3</td>
</tr>
<tr>
<td>Chewing tobacco</td>
<td>71</td>
<td>163</td>
<td>35.0</td>
<td>17.2</td>
<td>17.2</td>
<td>3.7</td>
<td>3.1</td>
<td>0.6</td>
<td>4.3</td>
</tr>
<tr>
<td>Cigars</td>
<td>513</td>
<td>5385</td>
<td>9.5</td>
<td>4.5</td>
<td>4.0</td>
<td>0.3</td>
<td>1.0</td>
<td>1.3</td>
<td>1.0</td>
</tr>
<tr>
<td>Hand-rolled premium</td>
<td>398</td>
<td>4628</td>
<td>3.3</td>
<td>0.8</td>
<td>1.3</td>
<td>0.2</td>
<td>0.5</td>
<td>0.1</td>
<td>0.7</td>
</tr>
<tr>
<td>Cigarette-sized cigars</td>
<td>64</td>
<td>325</td>
<td>52.3</td>
<td>31.4</td>
<td>19.7</td>
<td>0.9</td>
<td>3.1</td>
<td>18.5</td>
<td>4.9</td>
</tr>
<tr>
<td>Machine-made large cigars</td>
<td>61</td>
<td>432</td>
<td>43.8</td>
<td>23.8</td>
<td>20.1</td>
<td>0.5</td>
<td>3.9</td>
<td>1.4</td>
<td>1.6</td>
</tr>
<tr>
<td>Cigar wraps</td>
<td>6</td>
<td>91</td>
<td>81.3</td>
<td>63.7</td>
<td>8.8</td>
<td>0.0</td>
<td>11.0</td>
<td>0.0</td>
<td>4.4</td>
</tr>
<tr>
<td>Dissolvables</td>
<td>3</td>
<td>11</td>
<td>81.8</td>
<td>9.1</td>
<td>0.0</td>
<td>45.5</td>
<td>0.0</td>
<td>0.0</td>
<td>27.3</td>
</tr>
<tr>
<td>Dry snuff</td>
<td>58</td>
<td>577</td>
<td>44.4</td>
<td>16.1</td>
<td>8.5</td>
<td>6.8</td>
<td>4.3</td>
<td>5.4</td>
<td>13.0</td>
</tr>
<tr>
<td>Moist snuff</td>
<td>32</td>
<td>187</td>
<td>55.1</td>
<td>8.6</td>
<td>1.6</td>
<td>43.3</td>
<td>0.5</td>
<td>0.0</td>
<td>1.6</td>
</tr>
<tr>
<td>Pipe tobacco</td>
<td>167</td>
<td>1865</td>
<td>45.7</td>
<td>29.9</td>
<td>7.3</td>
<td>4.1</td>
<td>5.5</td>
<td>1.3</td>
<td>7.0</td>
</tr>
<tr>
<td>Traditional pipe</td>
<td>99</td>
<td>912</td>
<td>17.2</td>
<td>5.9</td>
<td>7.3</td>
<td>0.1</td>
<td>4.9</td>
<td>0.3</td>
<td>4.2</td>
</tr>
<tr>
<td>Dual purpose pipe tobacco</td>
<td>41</td>
<td>174</td>
<td>14.4</td>
<td>2.9</td>
<td>2.9</td>
<td>7.5</td>
<td>1.1</td>
<td>12.6</td>
<td>0.6</td>
</tr>
<tr>
<td>Shisha</td>
<td>28</td>
<td>779</td>
<td>86.1</td>
<td>63.9</td>
<td>8.2</td>
<td>8.1</td>
<td>7.2</td>
<td>0.0</td>
<td>11.7</td>
</tr>
<tr>
<td>Roll-your-own cigarette</td>
<td>16</td>
<td>66</td>
<td>15.2</td>
<td>13.6</td>
<td>1.5</td>
<td>0.0</td>
<td>0.0</td>
<td>13.6</td>
<td>0.0</td>
</tr>
<tr>
<td>Snus</td>
<td>30</td>
<td>81</td>
<td>33.3</td>
<td>3.7</td>
<td>1.2</td>
<td>27.2</td>
<td>1.2</td>
<td>0.0</td>
<td>0.0</td>
</tr>
</tbody>
</table>
of Justice, as these products could not be found for sale online.

We identified every tobacco product from each data source and classified products by type and flavour. ‘Mint’ included products with descriptors such as cool, fresh, ice, peppermint, spearmint and wintergreen. ‘Fruit’ included apple, apricot, cherry, grape and strawberry. ‘Liquor’ included margarita, rum, whisky and wine. ‘Sweet’ included bubble gum, candy, chocolate, honey, toffee and vanilla. ‘Other’ flavours include coffee, hickory and spice. Flavours like ‘honey berry’ were classified as both Fruit and Sweet. Both authors coded data, and resolved discrepancies by consensus. After removing duplicates, the final sample was 8426 unique non-cigarette tobacco products.

Of the tobacco products identified for this study, 1900 (23%) were flavoured (table 1). Apple, cherry, chocolate, honey, grape, menthol, mint, peach, rum, strawberry, sweet and vanilla were the most common flavours. Shisha (hookah tobacco) had the greatest number of flavours. Flavours were identified in over 80% of shisha, dissolvable tobacco and cigars wraps. Over 40% of the cigarette-sized cigars, machine-made cigars, moist snuff and dry snuff products identified were flavoured. Flavours were least common among hand-rolled premium cigars (3%). About one out of seven loose tobacco products were flavoured, whether sold as roll-your-own cigarette tobacco or ‘dual purpose pipe tobacco’, a designation that is used to avoid taxes.

We found a large number of flavoured tobacco products for sale on the Internet. The convenience sample of Internet retailers limits generalisability but does not negate the finding that many flavoured tobacco products are available for online purchase. Though we identified many products others are surely missing from the study sample. If a full list of tobacco products for sale was available from the Food and Drug Administration, this study could be replicated with more robust results. Applying the cigarette flavour ban to other tobacco products might reduce sales of these products and discourage youth initiation. Few hand-rolled premium cigars would be affected by a flavour ban.

What this paper adds

- This is the first study of Internet tobacco retailers to describe the variety and flavours of non-cigarette tobacco products for sale in the USA.
- Out of 8426 non-cigarette tobacco products identified, 1900 (23%) were flavoured; flavours were most common in hookah tobacco, dissolvables and cigar wraps. Flavours were least common among hand-rolled premium cigars.
- Applying the cigarette flavour ban to non-cigarette tobacco products might reduce sales of these products and discourage youth initiation. A flavour ban would have little effect on the premium cigar market.

Daniel S Morris, Steven C Fiala
Portland, Oregon, USA

Correspondence to Dr Daniel S Morris, 813 SW Alder St, Suite 800a, Portland, OR 97205, USA; danielmorrisphd@gmail.com

Acknowledgements We thank David Hopkins for his critical review of the manuscript.

Contributors DSM designed the study, collected data, and conducted data analysis; SCF assisted with data collection and management, and contributed to writing and editing of the manuscript.

Funding This article was written as part of a grant-funded research project. Any public dissemination of information relating to the grant was made possible by Grant Number RC-2009-0035 from ClearWay Minnesota. The contents of this information are solely the responsibility of the authors and do not necessarily represent the official views of ClearWay Minnesota.

Competing interests None.

Provenance and peer review Not commissioned; externally peer reviewed.

Data sharing statement The authors will share data used in this study upon request.

To cite Morris DS, Fiala SC. Tob Control 2015;24:101–102. Accepted 23 July 2013
Published Online First 8 August 2013
Tob Control 2015;24:101–102. doi:10.1136/tobaccocontrol-2013-051059

REFERENCES

7 Nat’l Ass’n of Tobacco Outlets, Inc. v. City of Providence, 12-96-MI (U.S. District Court for the District of Rhode Island, 2012).
Flavoured, non-cigarette tobacco for sale in the USA: an inventory analysis of Internet retailers

Daniel S Morris and Steven C Fiala

*Tob Control* 2015 24: 101-102 originally published online August 8, 2013
doi: 10.1136/tobaccocontrol-2013-051059

Updated information and services can be found at:
http://tobaccocontrol.bmj.com/content/24/1/101

These include:

**References**
This article cites 2 articles, 1 of which you can access for free at:
http://tobaccocontrol.bmj.com/content/24/1/101#BIBL

**Email alerting service**
Receive free email alerts when new articles cite this article. Sign up in the box at the top right corner of the online article.

Notes

To request permissions go to:
http://group.bmj.com/group/rights-licensing/permissions

To order reprints go to:
http://journals.bmj.com/cgi/reprintform

To subscribe to BMJ go to:
http://group.bmj.com/subscribe/