

Consumption Study



Consumption Study Methodology

In partnership with the MOH and sanctioned by the Ministry of Statistics, PHC conducted a nationwide consumption study of six staple food products.

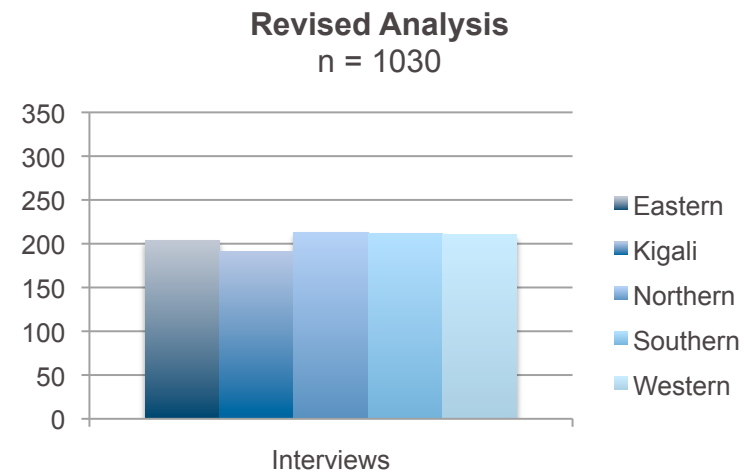
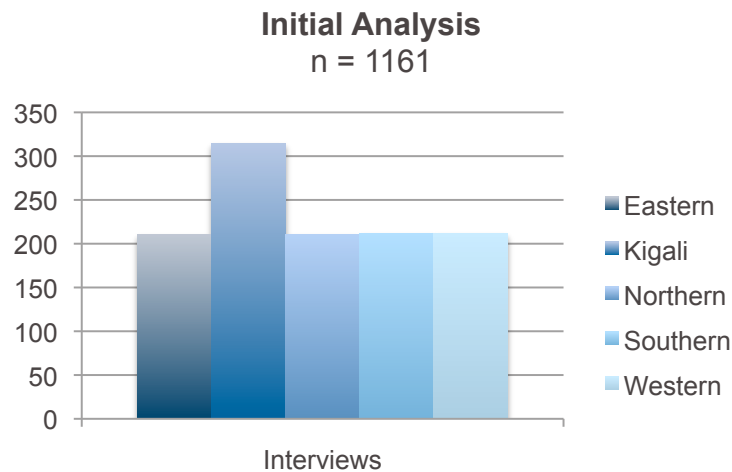
- From April to June 2008, data was collected for 6 staple foods: cassava flour, maize flour, rice, salt, sugar and oil*
- Target audience included women of reproductive age (16-45 years) and children less than 59 months of age
- Interviews were conducted in all 5 provinces of Rwanda
- 30 sectors selected using a cluster sampling methodology
- 7 interviews were conducted per district using a random walk methodology
- A single woman/child pair was the focus of each survey
- Data was collected using handheld computers and aggregated into a single database

*Data on oil includes: sunflower, vegetable, palm and cow's milk.



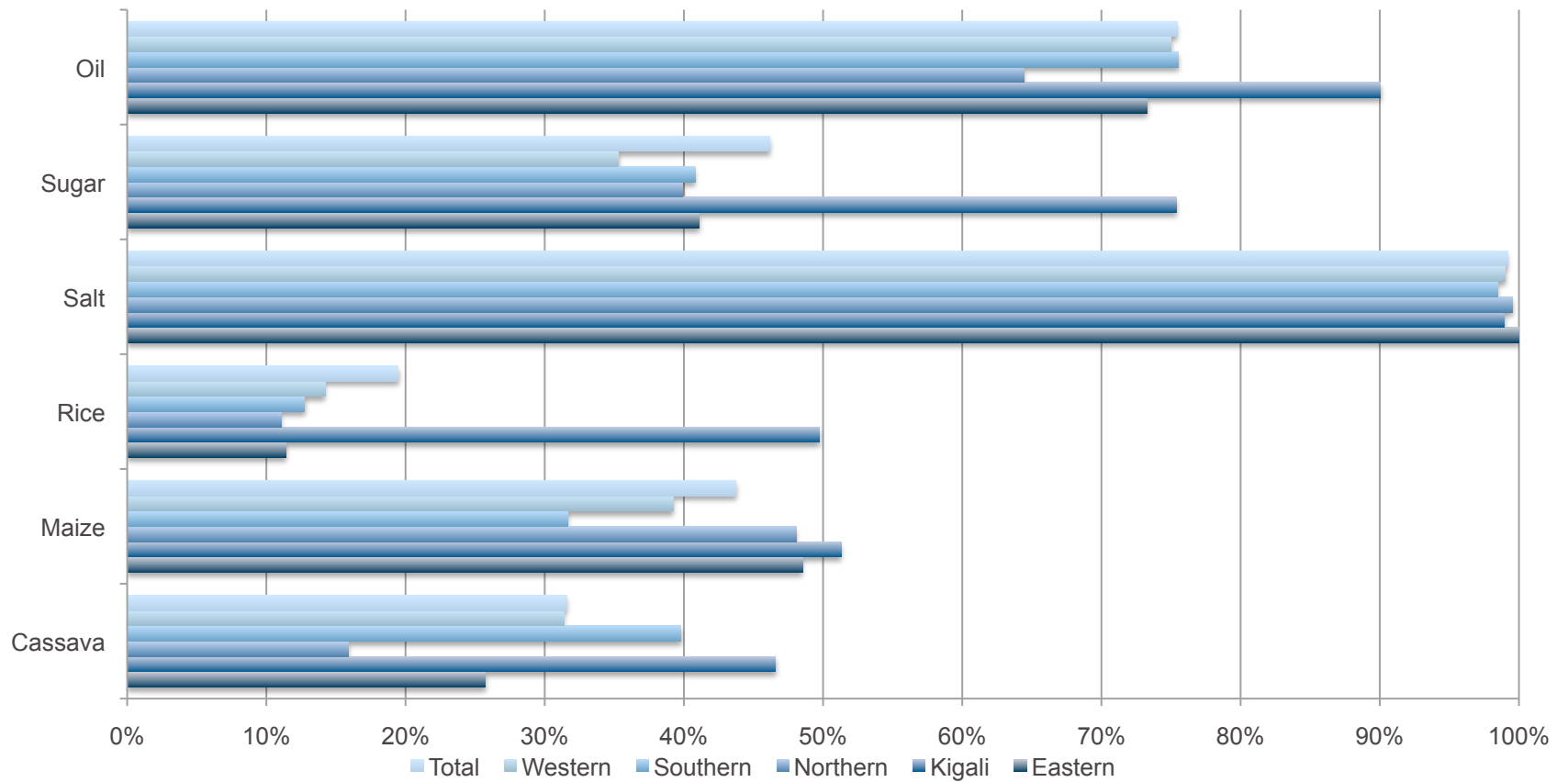
Consumption Study: Revised Analysis

Initial analysis included numerous records in four sectors within Kigali province. In this revised analysis, records have been randomly removed from those four sectors to achieve equal representation, removing potential bias towards urban consumption patterns.



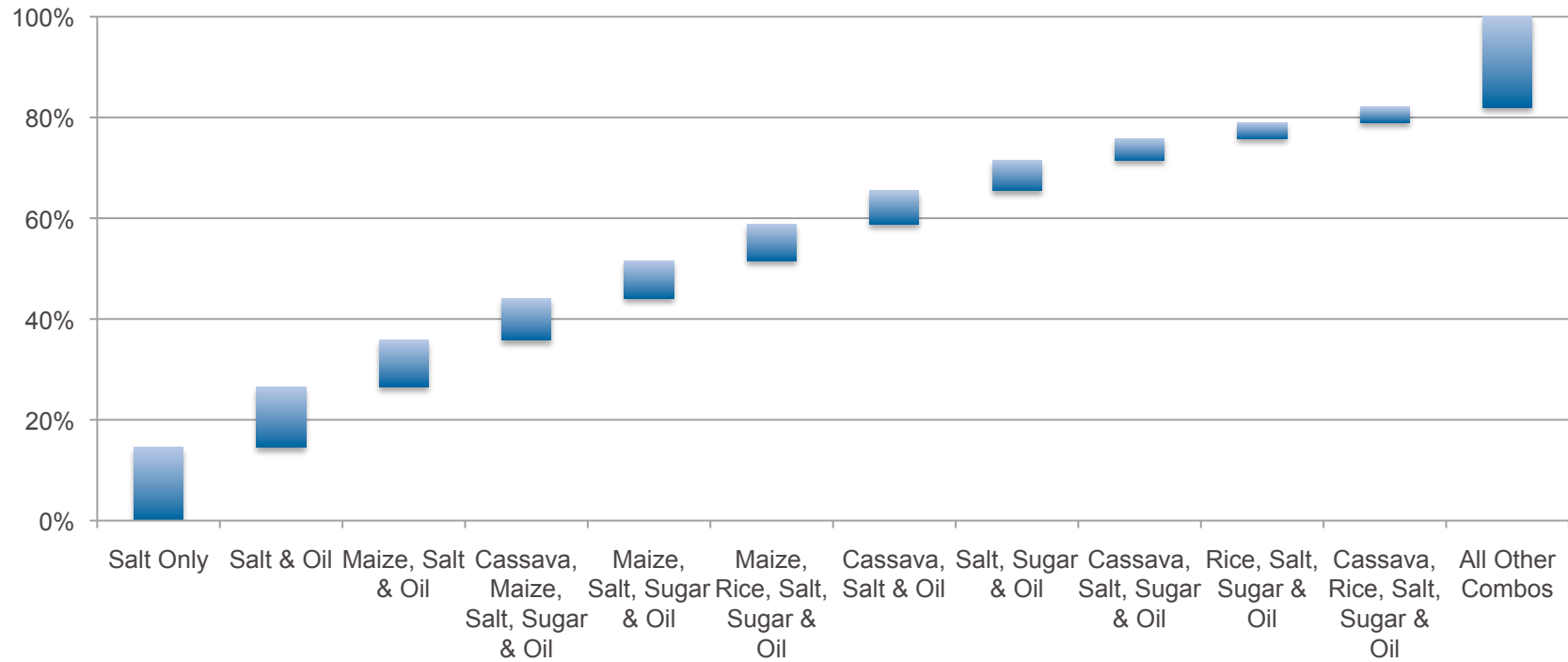
Daily Consumption: Women

Percent of Women Who Consume Each Staple Daily
n = 1001



Daily Consumption: Women

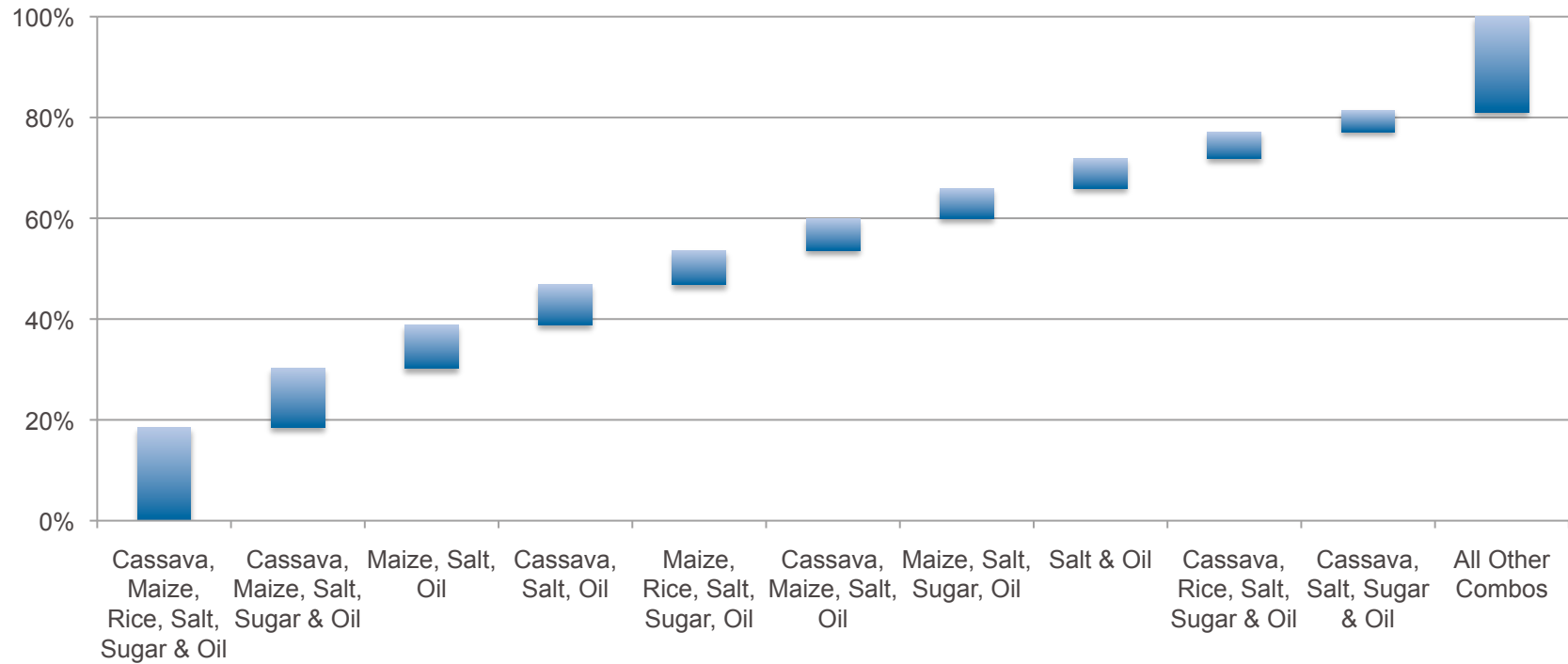
Percent Who Consumed Each Combination In Past Day: Women
n = 1001



Weekly Consumption: Women

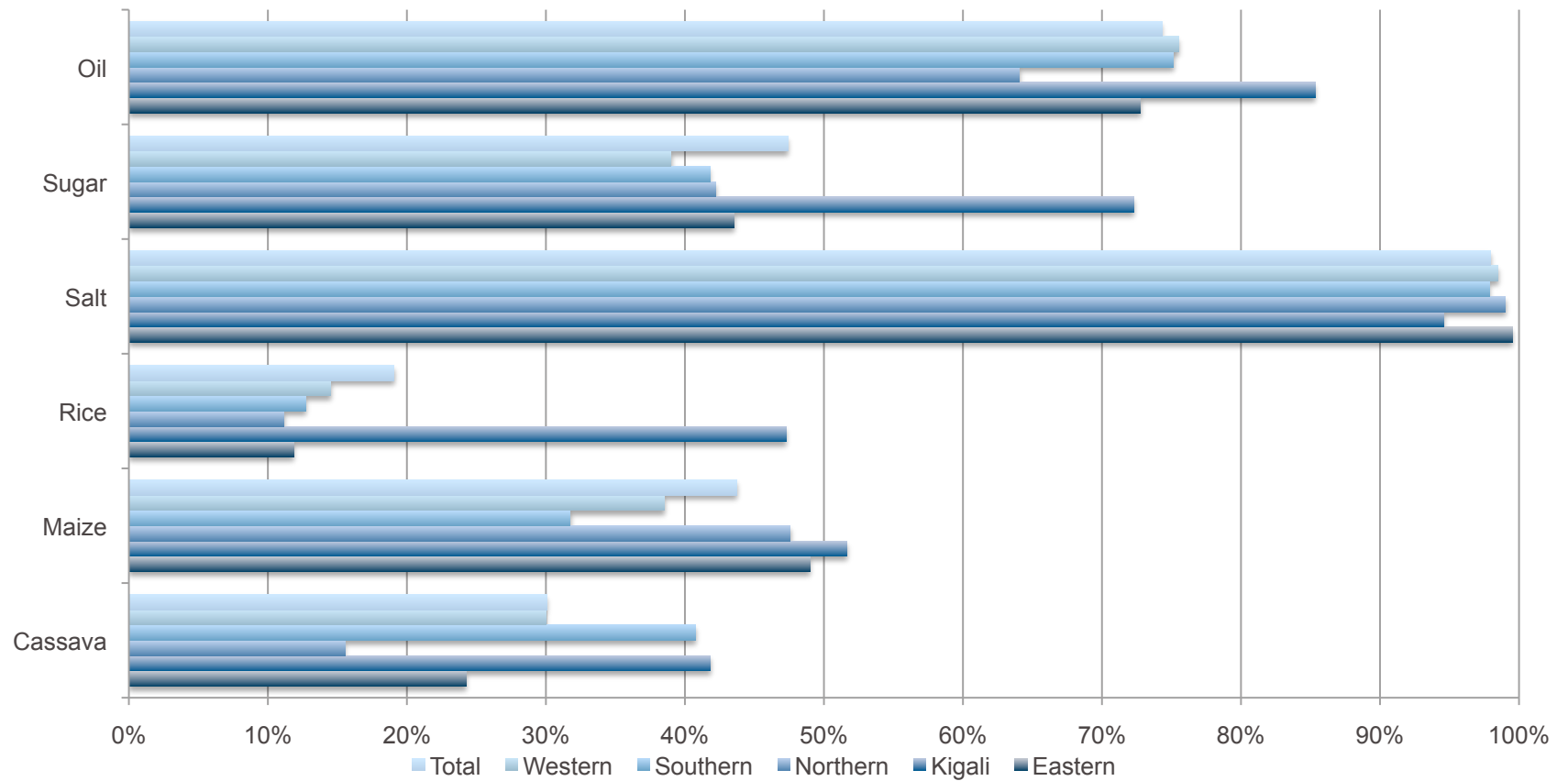
Percent Who Consumed Each Combination In Past Week: Women

n = 977



Daily Consumption by Region: Children

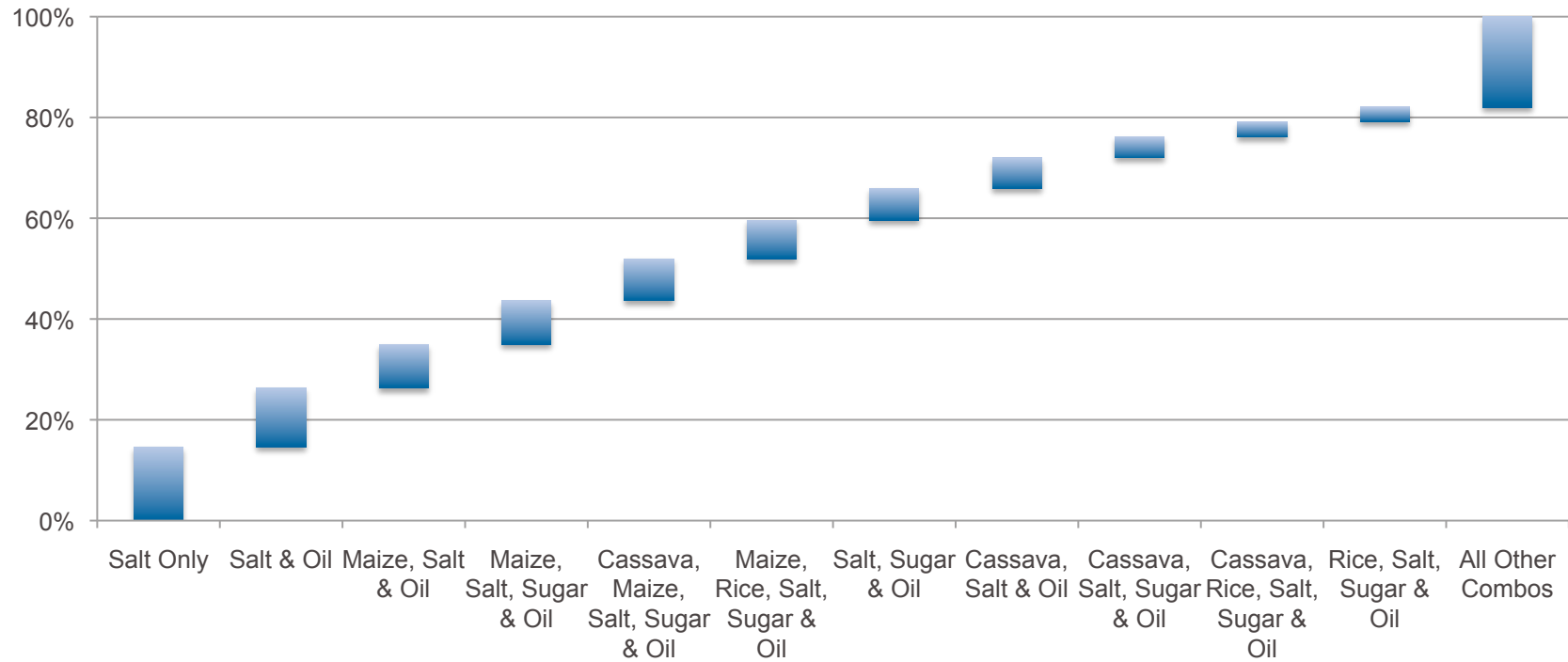
Percent of Children Who Consume Each Staple Daily
n = 981



Daily Consumption: Children

Percent Who Consumed Each Combination In Past Day: Children

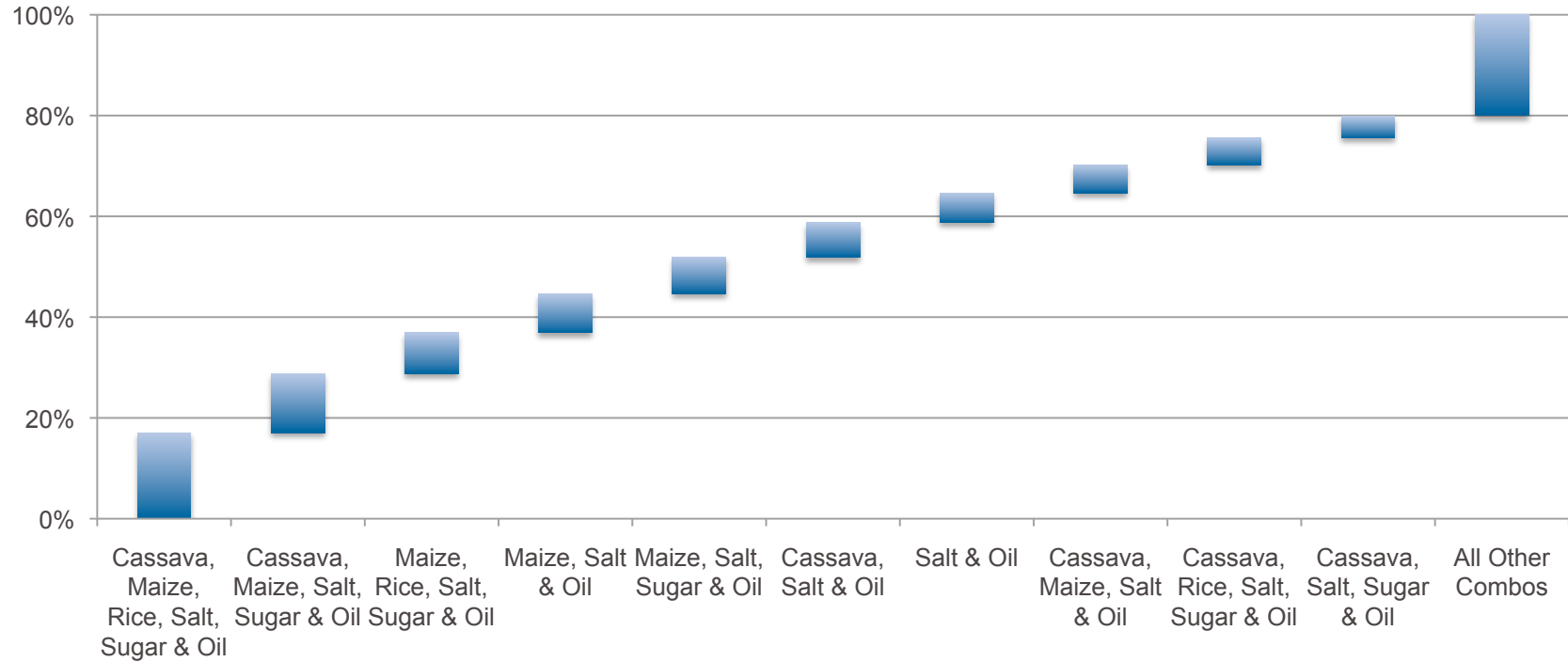
n = 981



Weekly Consumption: Children

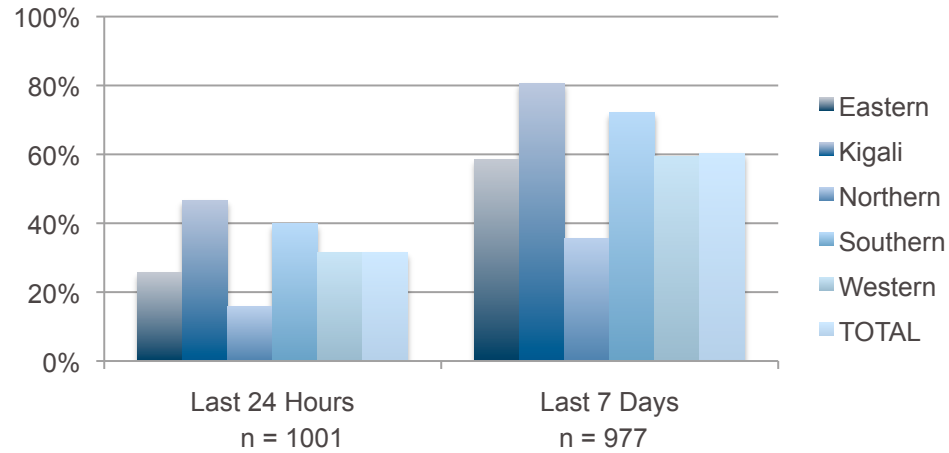
Percent Who Consumed Each Combination In Past Week: Children

n = 954

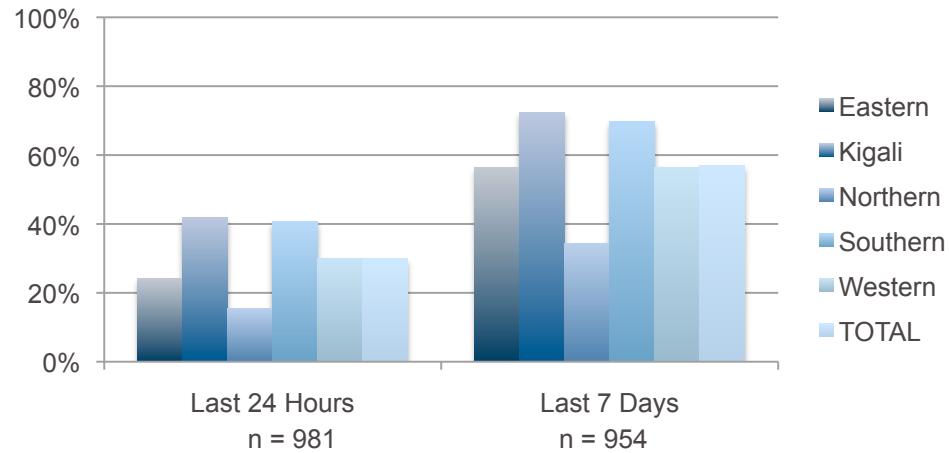


Cassava: Daily and Weekly Consumption

Consumption: Women

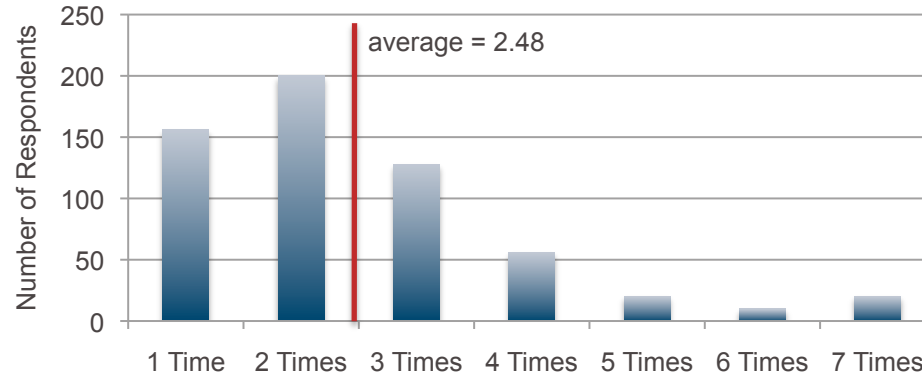


Consumption: Children

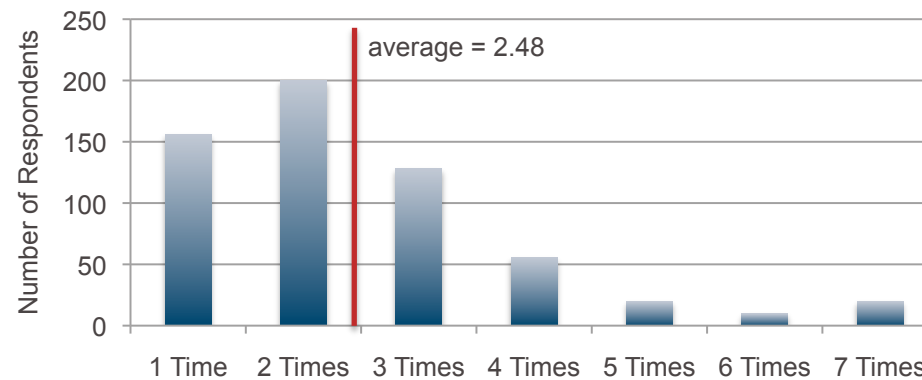


Cassava: Frequency of Consumption

Weekly Consumption Frequency: Women
n = 590, $\sigma = 1.43$

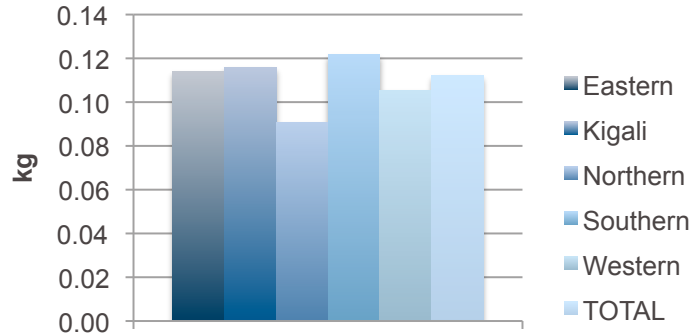


Weekly Consumption Frequency: Children
n = 544, $\sigma = 1.38$

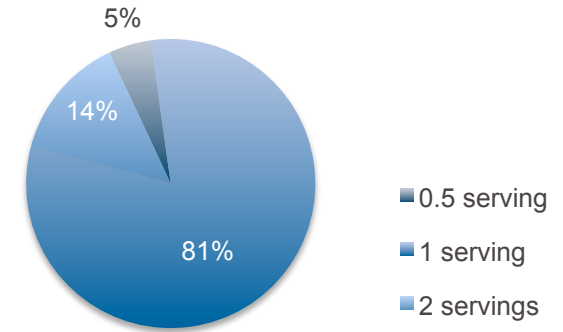


Cassava: Average Amount Consumed

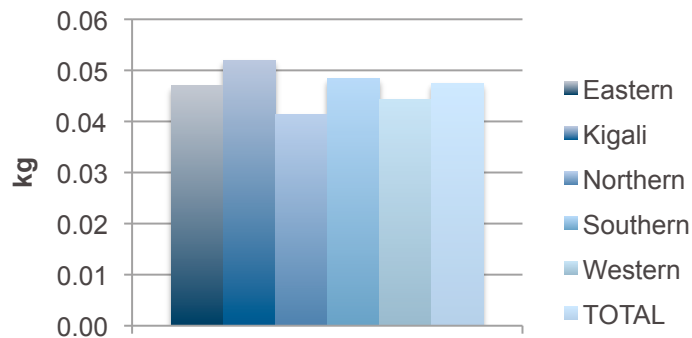
Average Amount Consumed: Women
n = 321



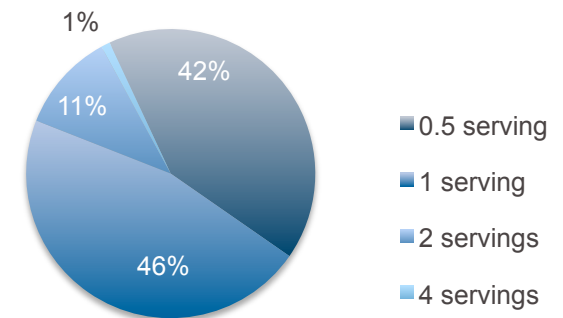
National Distribution by Serving Size: Women
n = 321, 1 serving = 0.1kg, $\sigma = 0.40$



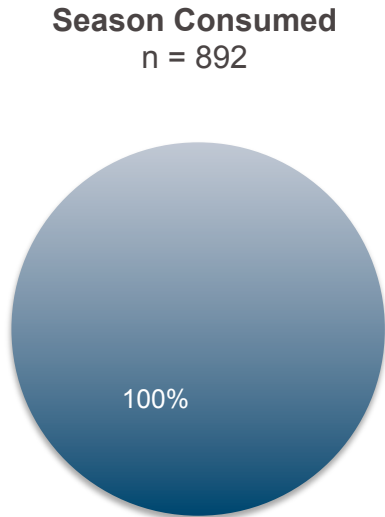
Average Amount Consumed: Children
n = 299



National Distribution by Serving Size: Children
n = 299, 1 serving = 0.05kg, $\sigma = 0.62$

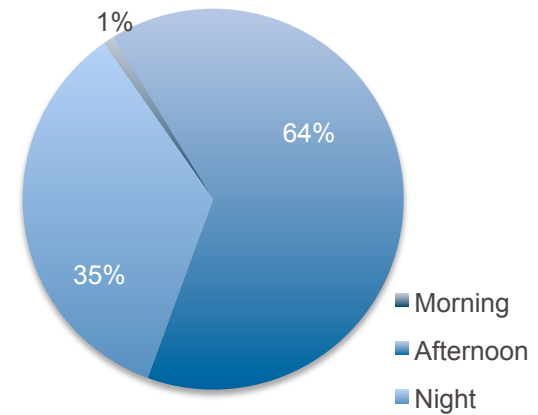


Cassava: When Consumed



■ All

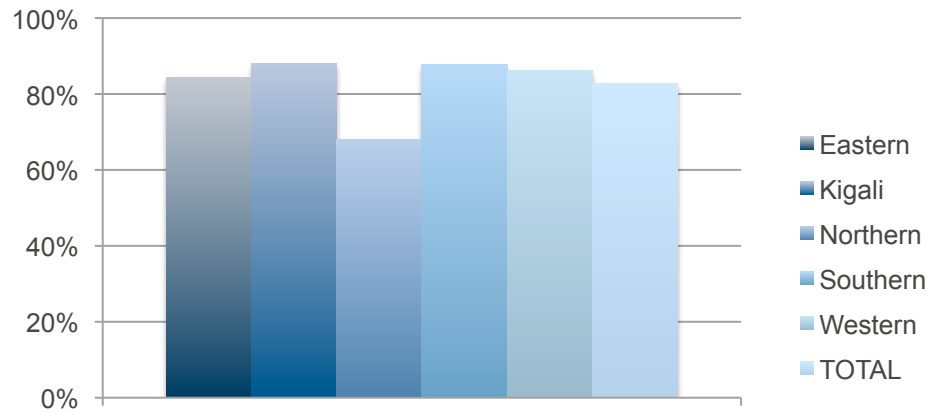
Time of Day Consumed
n = 321



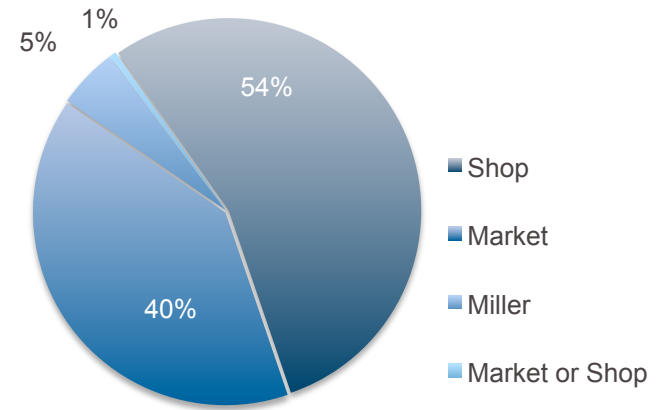
■ Morning
■ Afternoon
■ Night

Cassava: Purchase Rate and Location

Percent Who Purchase
n = 1028

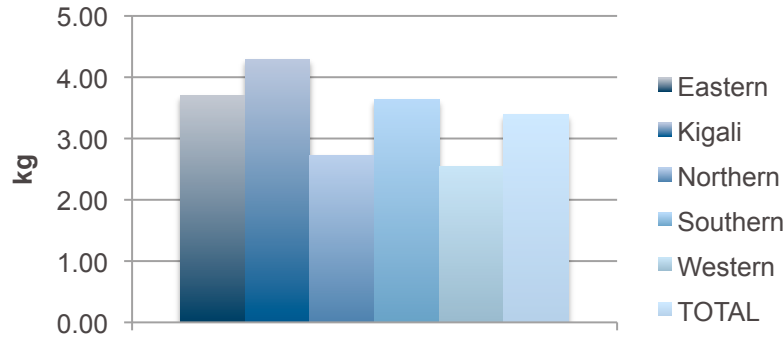


Purchase Location
n = 850

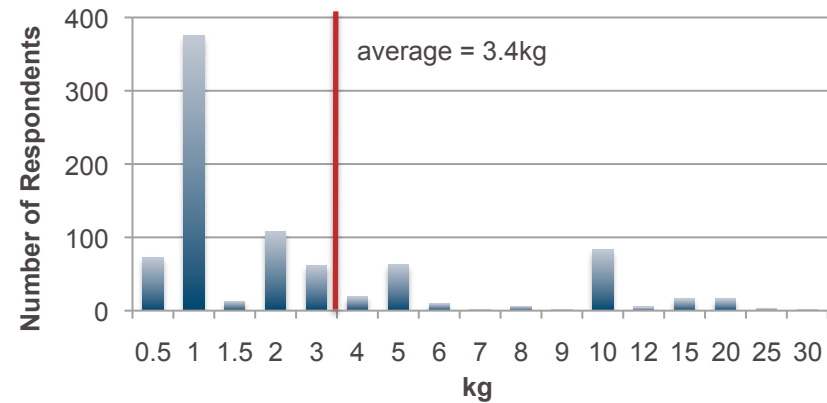


Cassava: Purchase Amount and Frequency

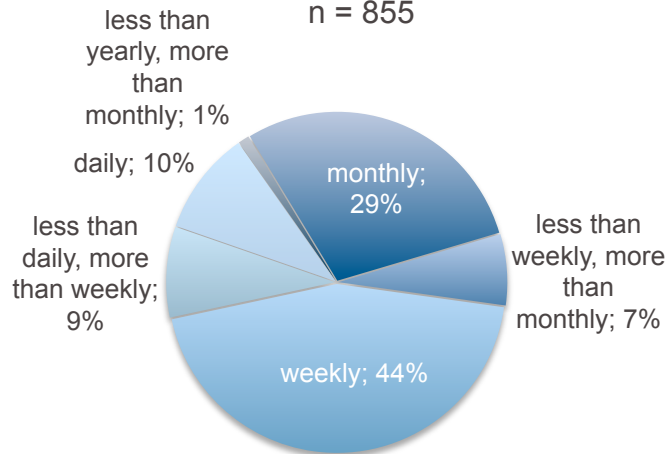
Average Amount per Purchase
n = 855



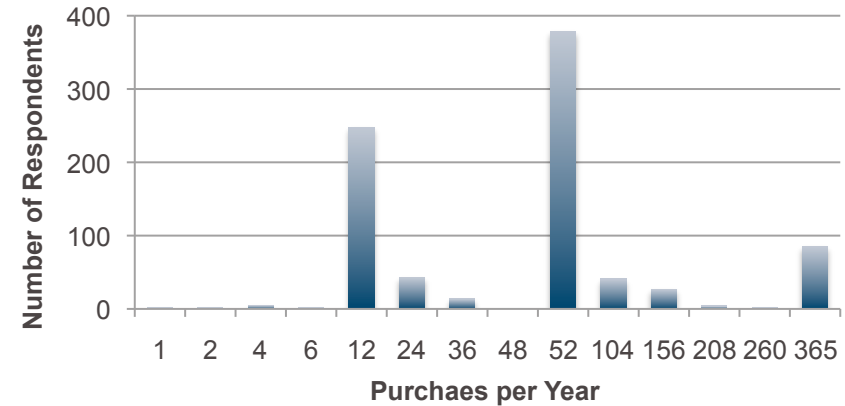
National Distribution: Amount per Purchase
n = 855, $\sigma = 4.3\text{kg}$



Purchase Frequency
n = 855

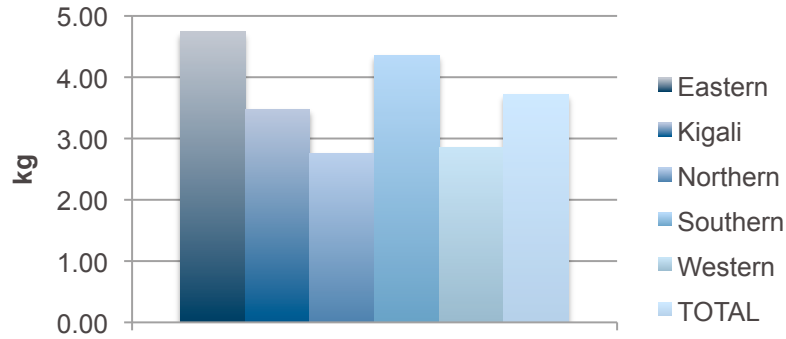


National Distribution: Purchase Frequency
n = 855, average = 76, $\sigma = 102$

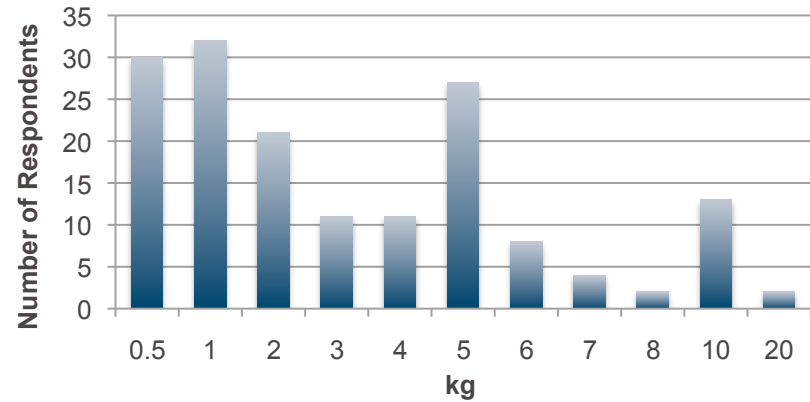


Cassava: Storage

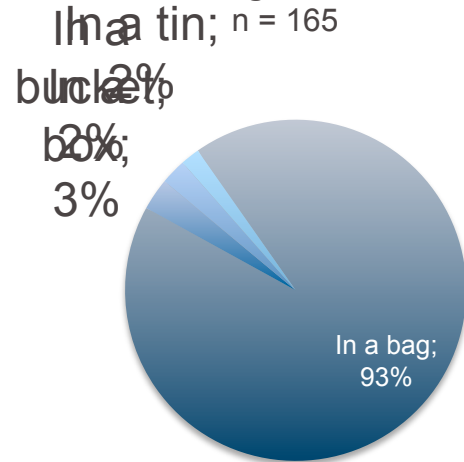
Average Amount In Home
n = 165



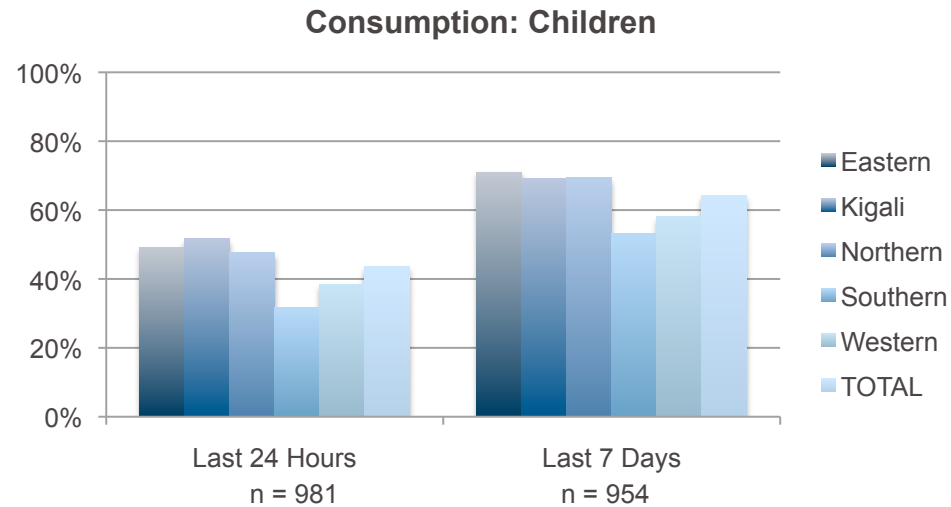
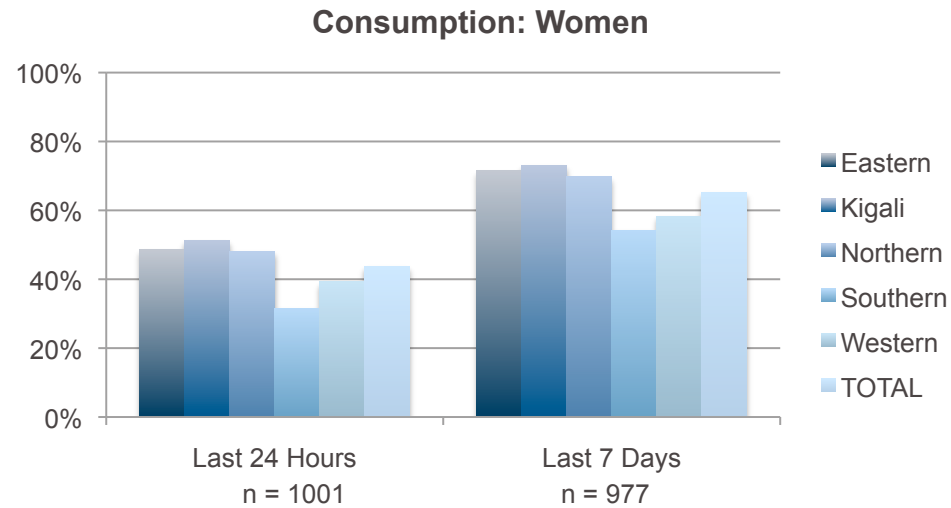
National Distribution: Amount In Home
n = 165, average = 3.7kg, $\sigma = 3.8$ kg



Storage Method

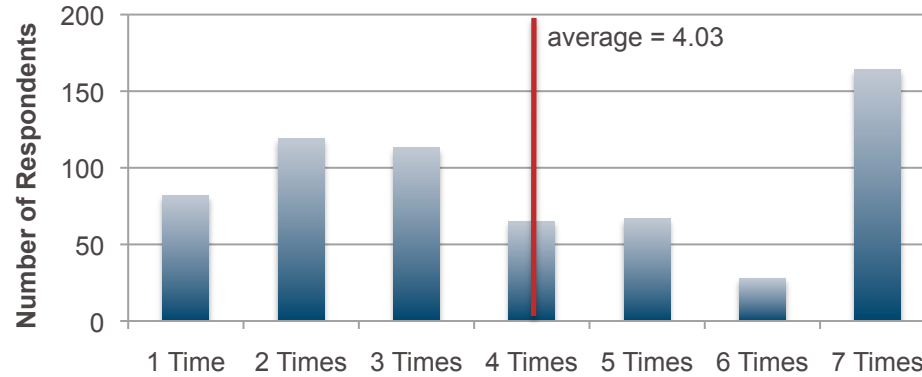


Maize: Daily and Weekly Consumption

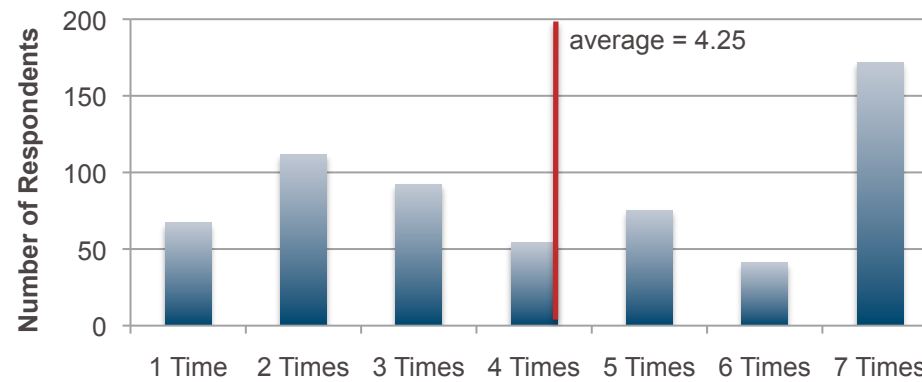


Maize: Frequency of Consumption

Weekly Consumption Frequency: Women
n = 638, $\sigma = 2.16$

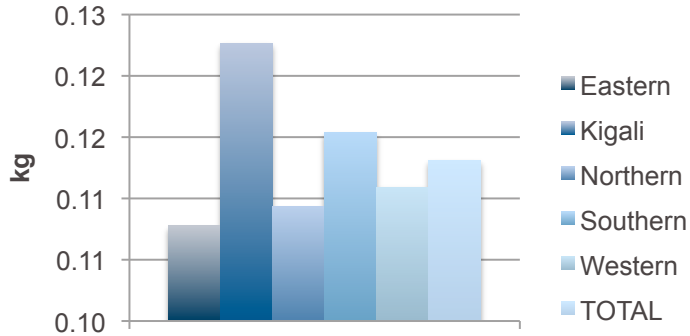


Weekly Consumption Frequency: Children
n = 613, $\sigma = 2.17$

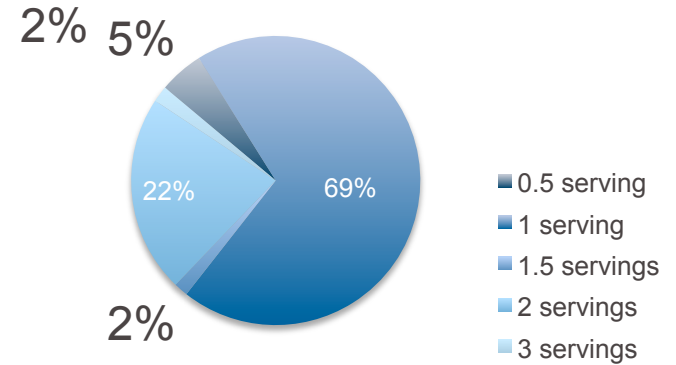


Maize: Average Amount Consumed

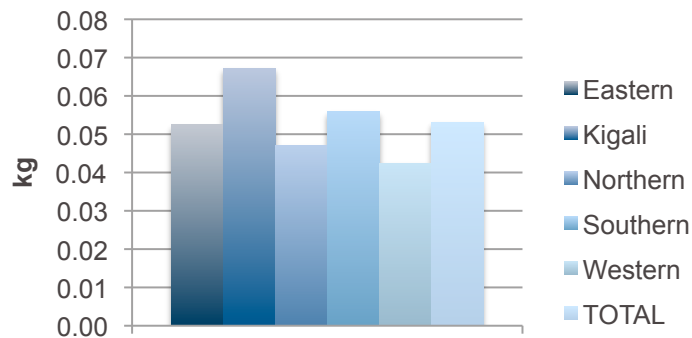
Average Amount Consumed: Women
n = 445



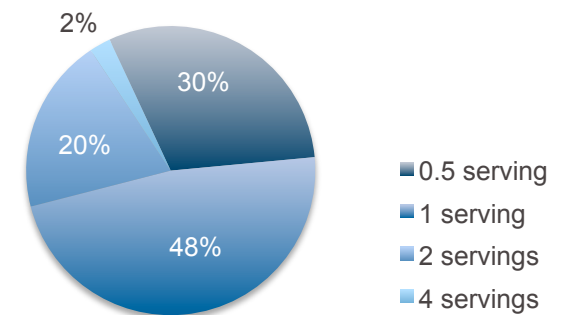
National Distribution by Serving Size: Women
n = 445, 1 serving = 0.09kg, $\sigma = 0.52$



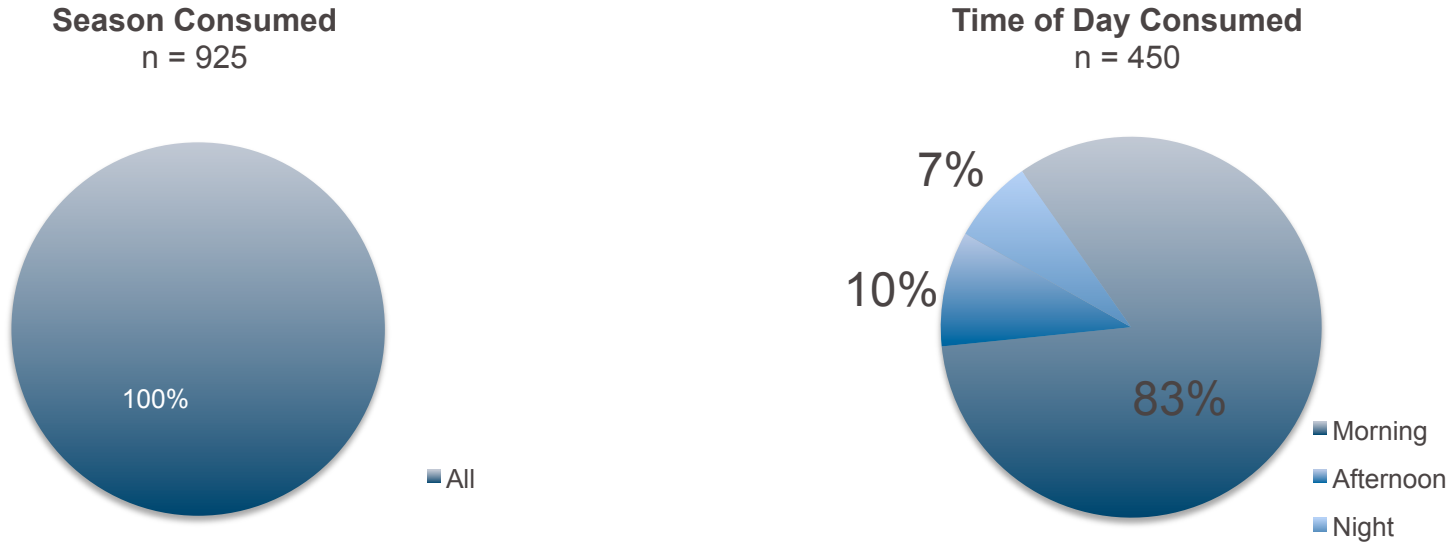
Average Amount Consumed: Children
n = 436



National Distribution by Serving Size: Children
n = 436, 1 serving = 0.05kg, $\sigma = 0.80$

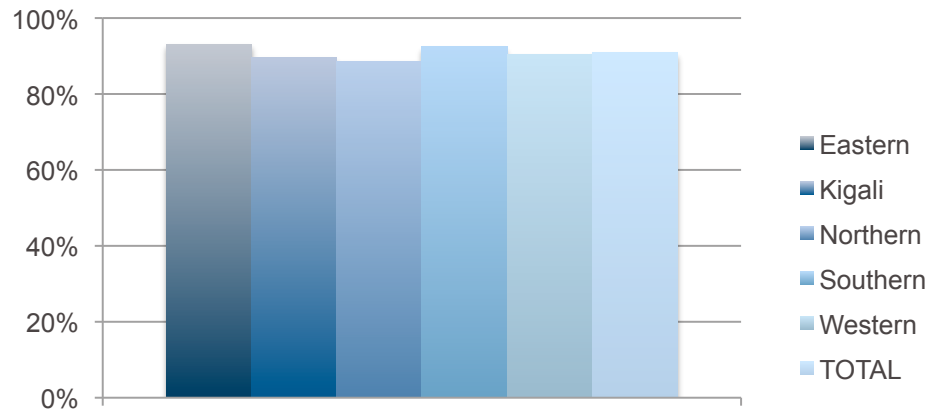


Maize: When Consumed

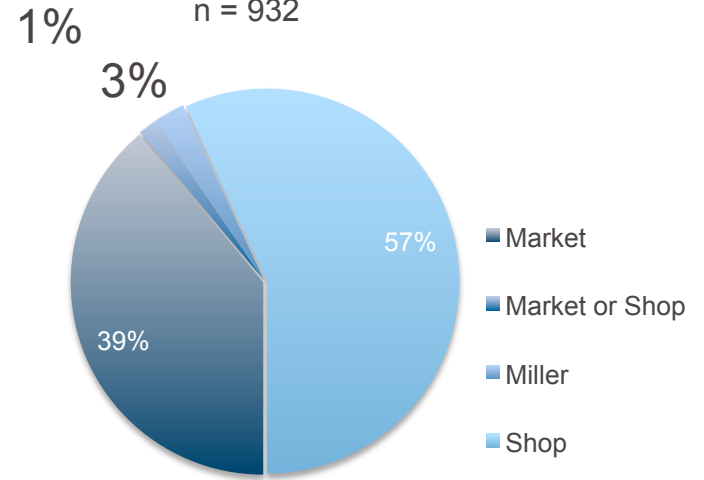


Maize: Purchase Rate and Location

Percent Who Purchase
n = 1026

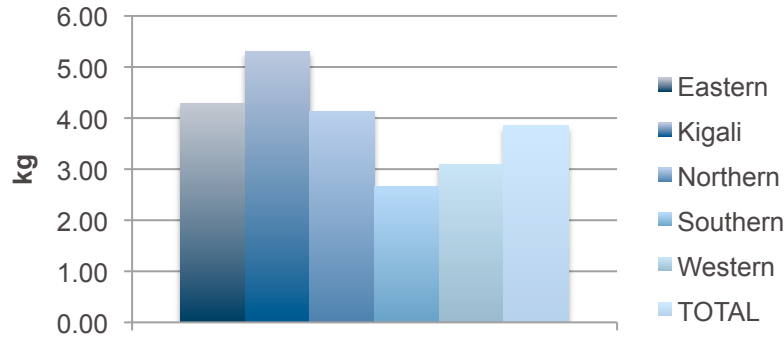


Purchase Location
n = 932

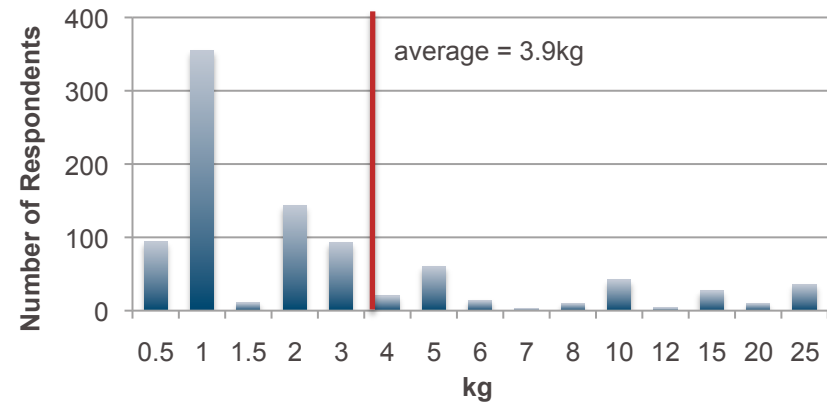


Maize: Purchase Amount and Frequency

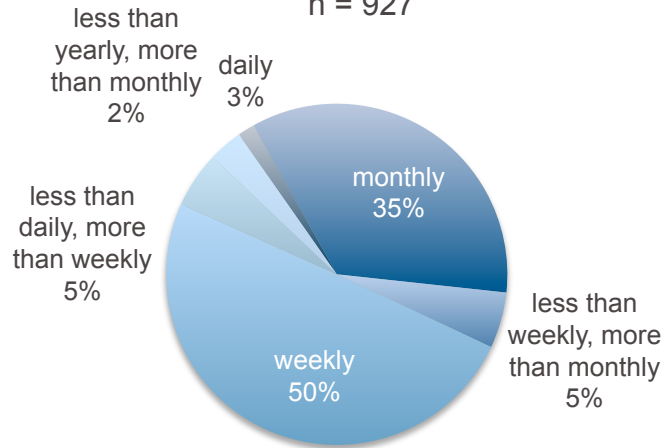
Average Amount per Purchase
n = 925



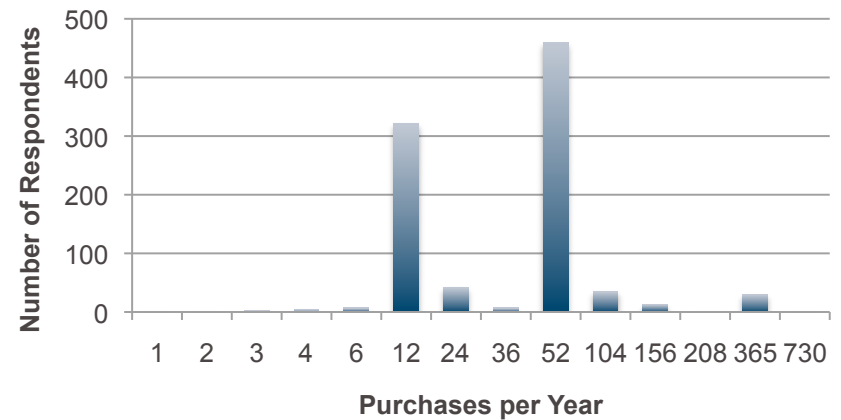
National Distribution: Amount per Purchase
n = 925, $\sigma = 5.8\text{kg}$



Purchase Frequency
n = 927

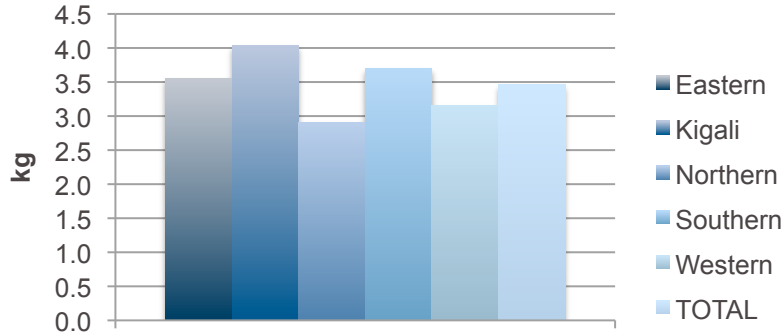


National Distribution: Purchase Frequency
n = 927, average = 50, $\sigma = 68$

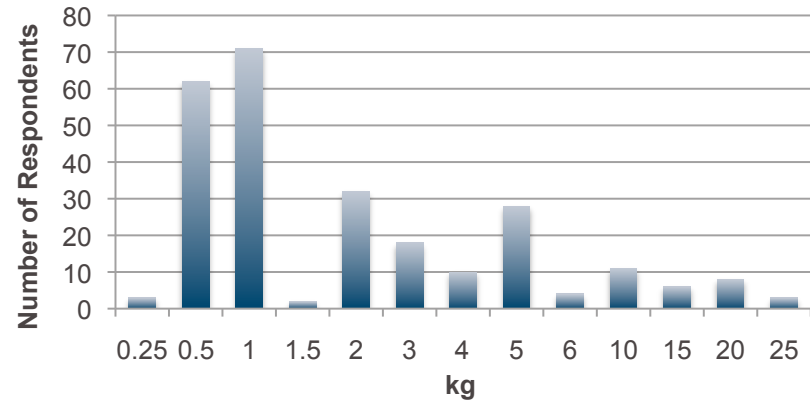


Maize: Storage

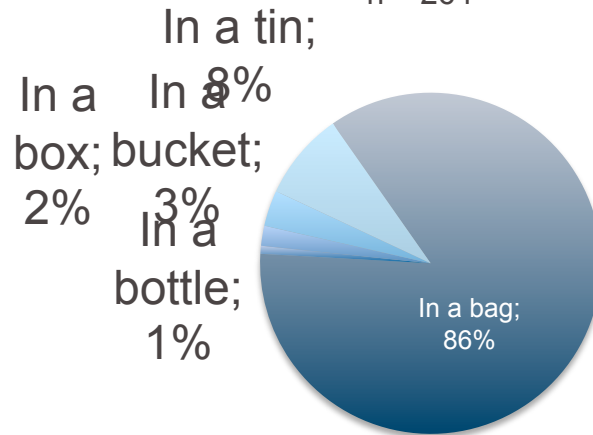
Average Amount In Home
n = 262



National Distribution: Amount In Home
n = 262, average = 3.5kg, $\sigma = 4.9$ kg

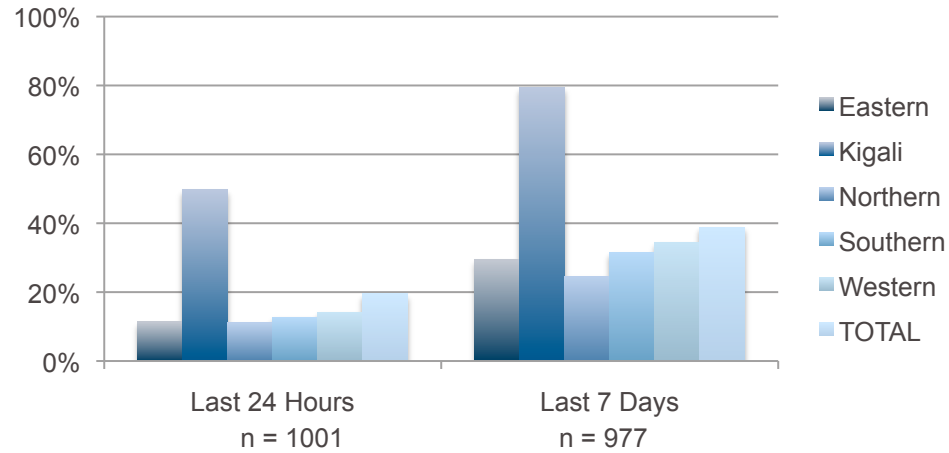


Storage Method
n = 264

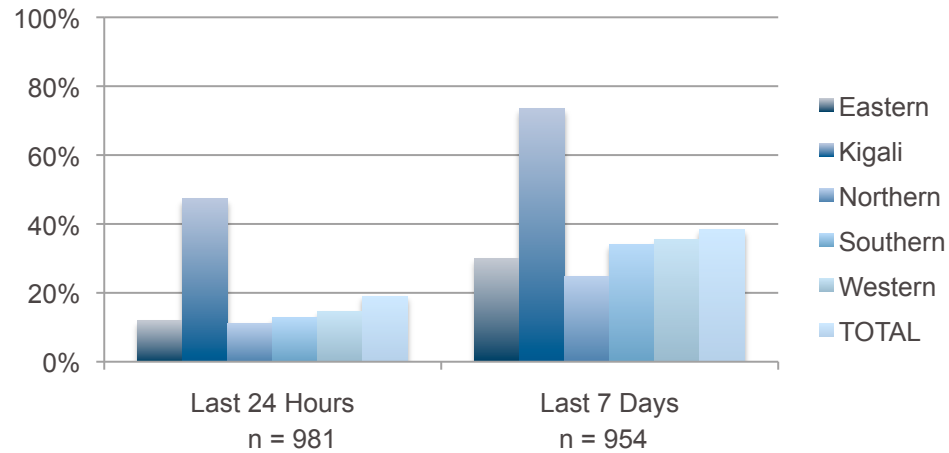


Rice: Daily and Weekly Consumption

Consumption: Women

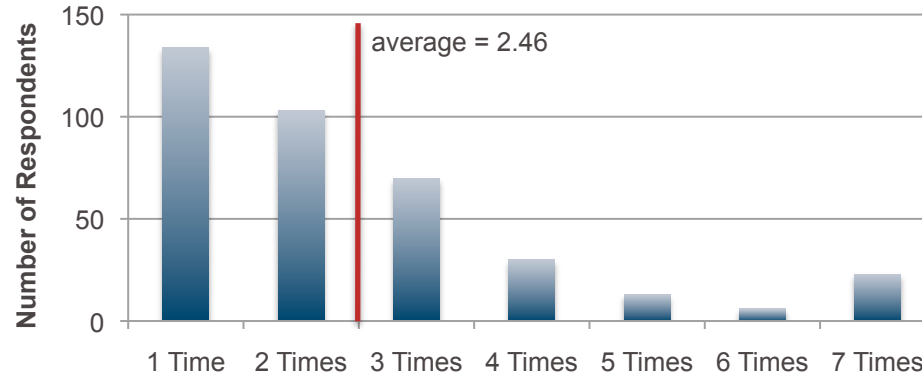


Consumption: Children

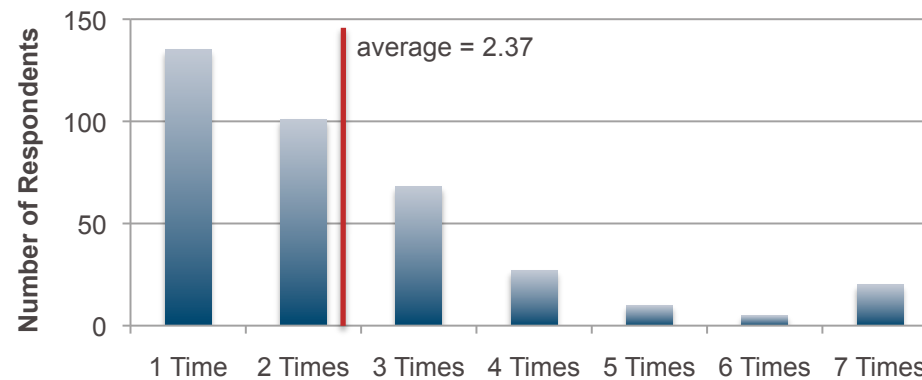


Rice: Frequency of Consumption

Weekly Consumption Frequency: Women
n = 349, $\sigma = 1.65$

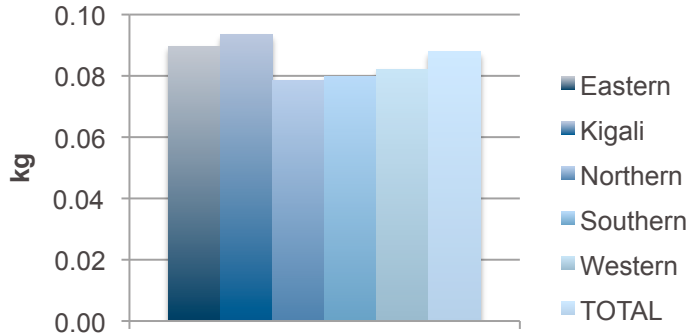


Weekly Consumption Frequency: Children
n = 366, $\sigma = 1.60$

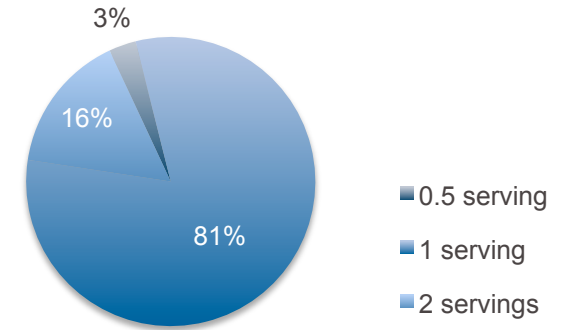


Rice: Average Amount Consumed

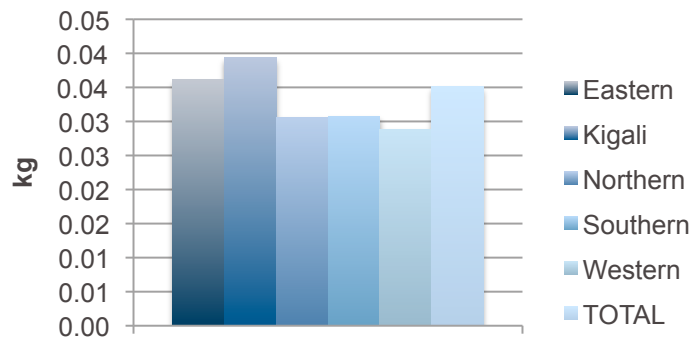
Average Amount Consumed: Women
n = 198



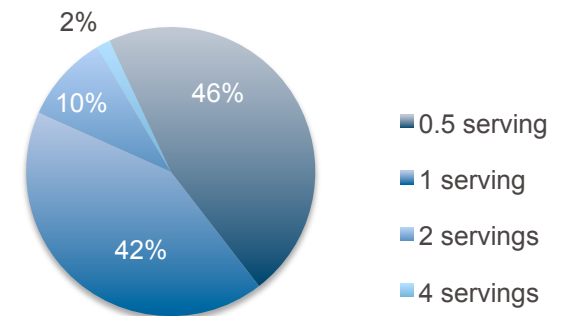
National Distribution by Serving Size: Women
n = 198, 1 serving = 0.08kg, $\sigma = 0.38$



Average Amount Consumed: Children
n = 185

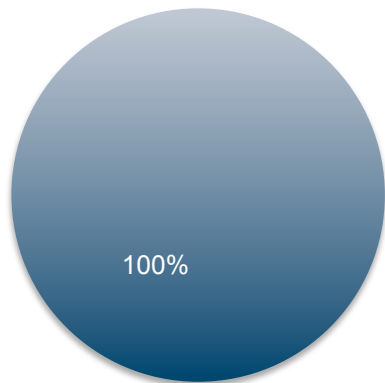


National Distribution by Serving Size: Children
n = 185, 1 serving = 0.04kg, $\sigma = 0.59$



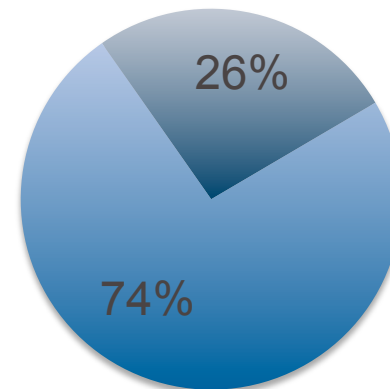
Rice: When Consumed

Season Consumed
n = 822



■ All

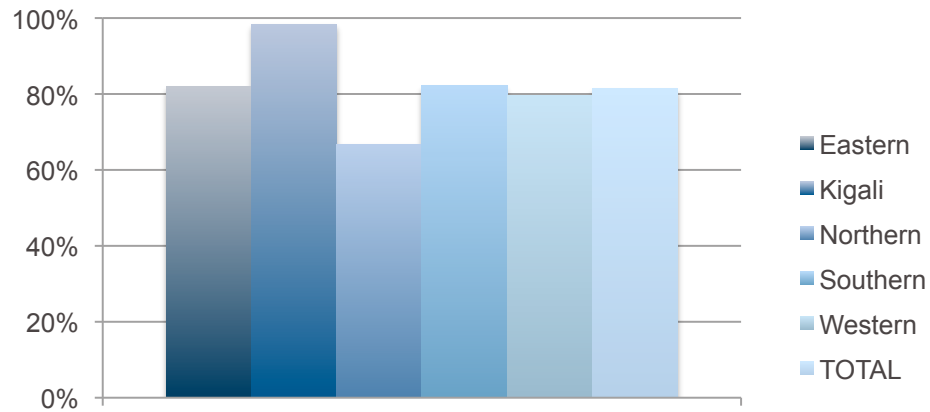
Time of Day Consumed
n = 199



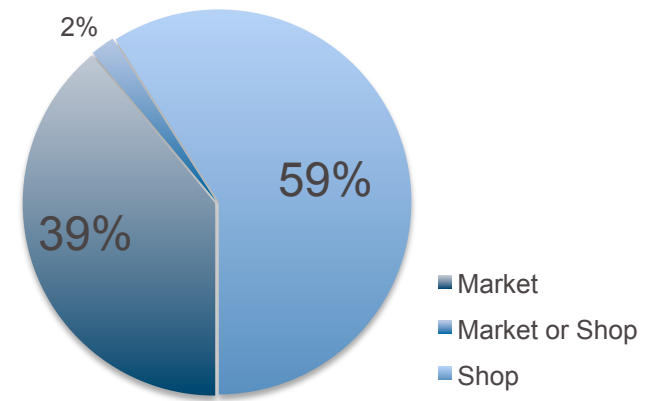
■ Afternoon
■ Night

Rice: Purchase Rate and Location

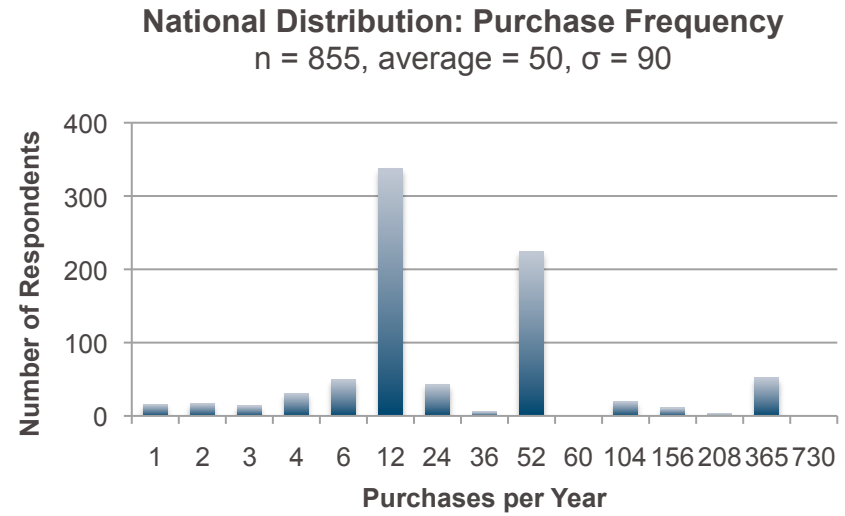
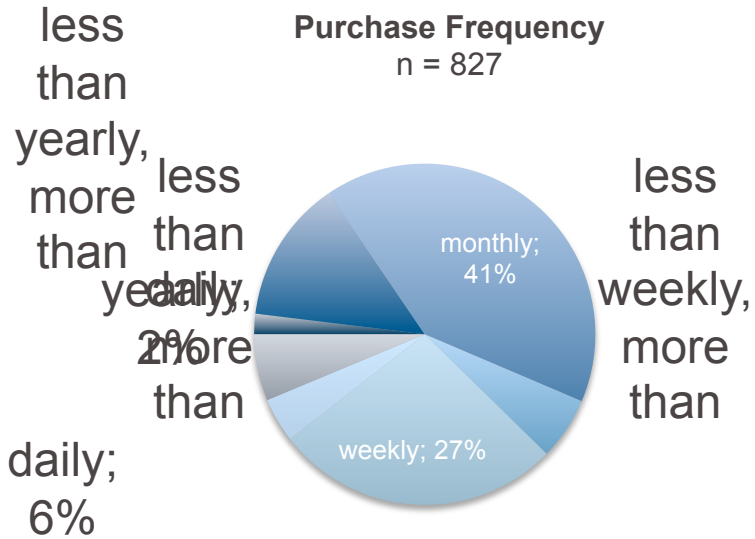
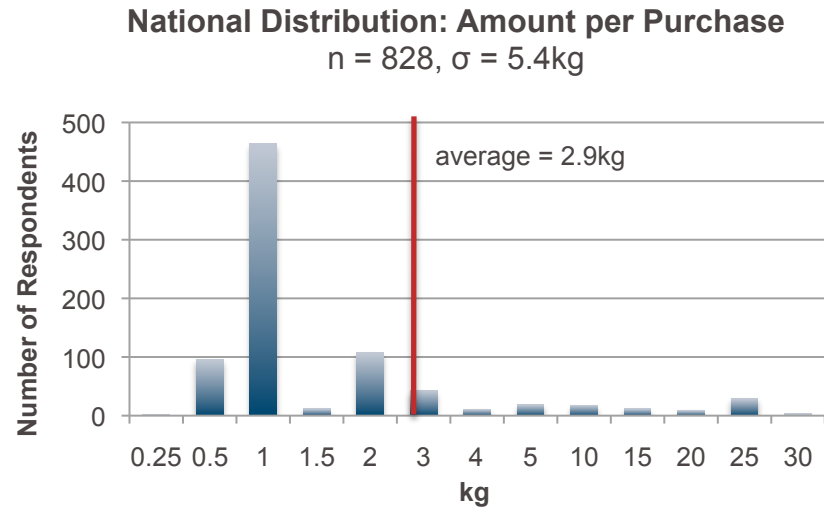
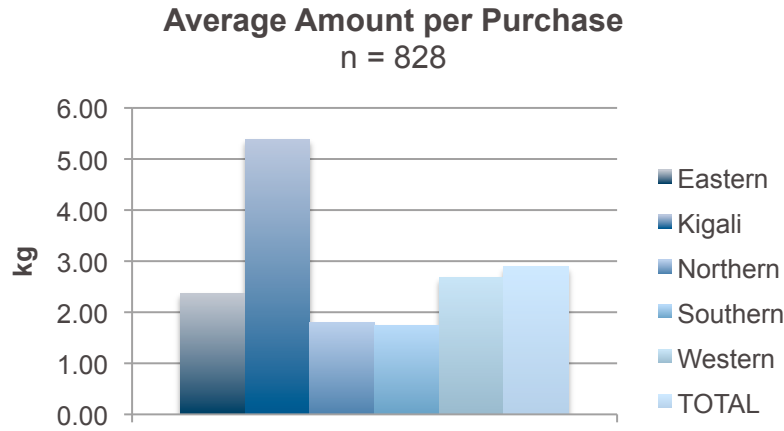
Percent Who Purchase
n = 1025



Purchase Location
n = 834

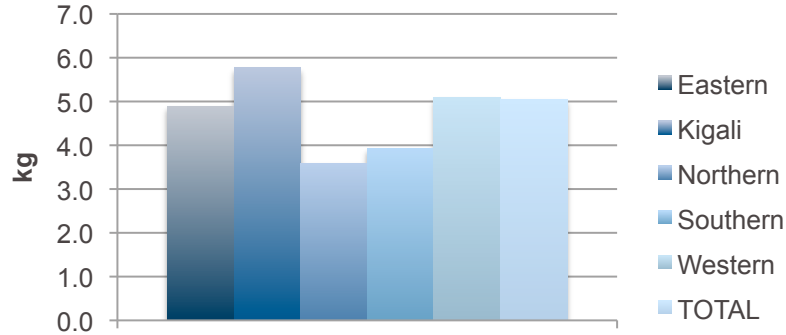


Rice: Purchase Amount and Frequency

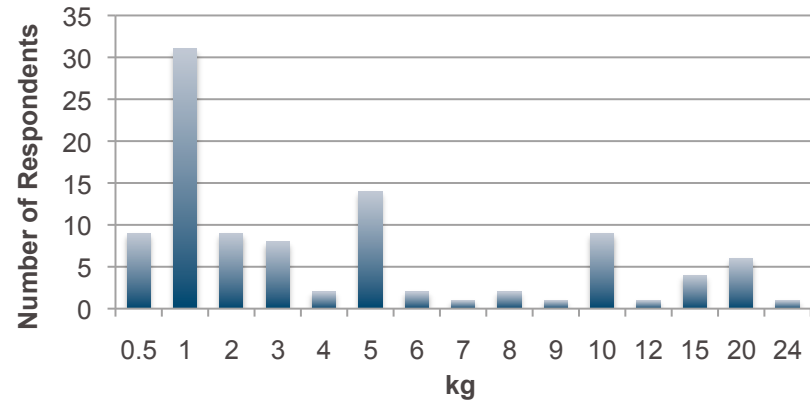


Rice: Storage

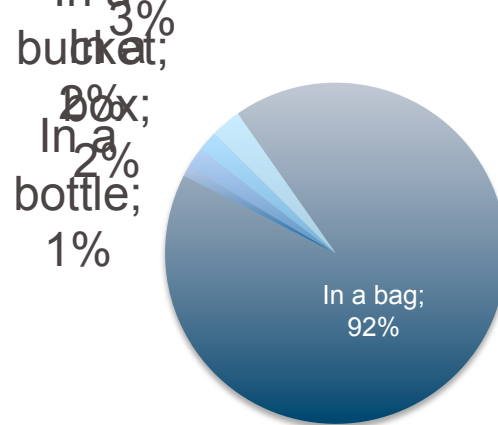
Average Amount In Home
n = 100



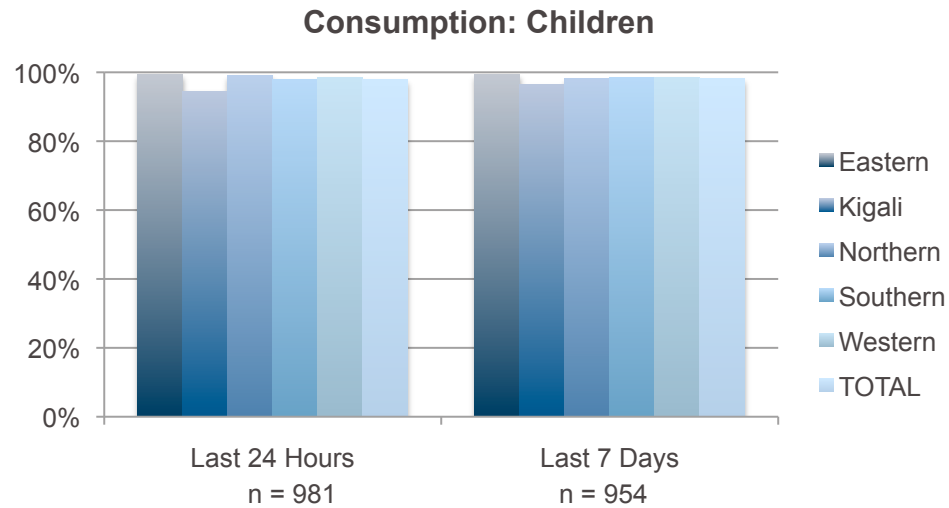
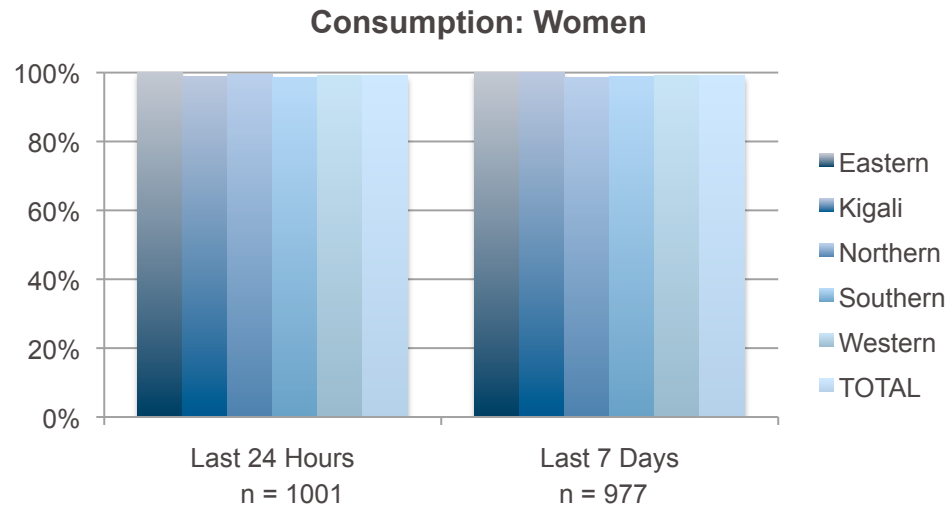
National Distribution: Amount In Home
n = 100, average = 5.1kg, $\sigma = 5.7$ kg



Storage Method
n = 103

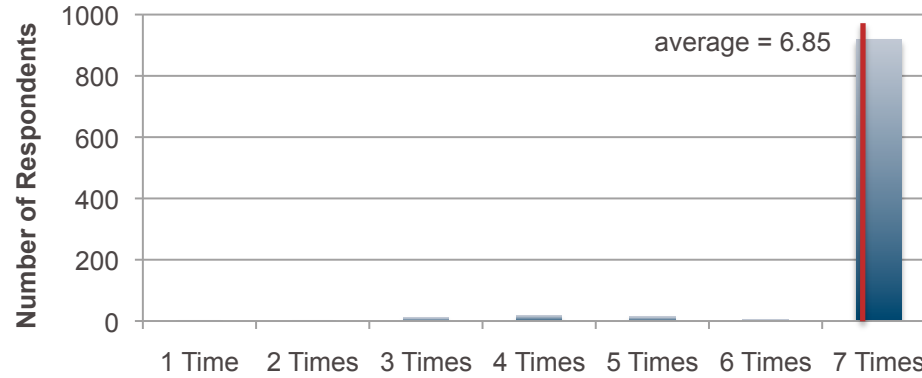


Salt: Daily and Weekly Consumption

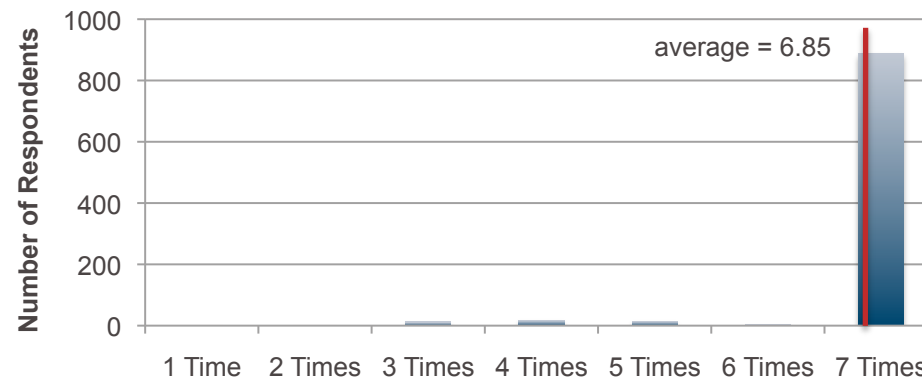


Salt: Frequency of Consumption

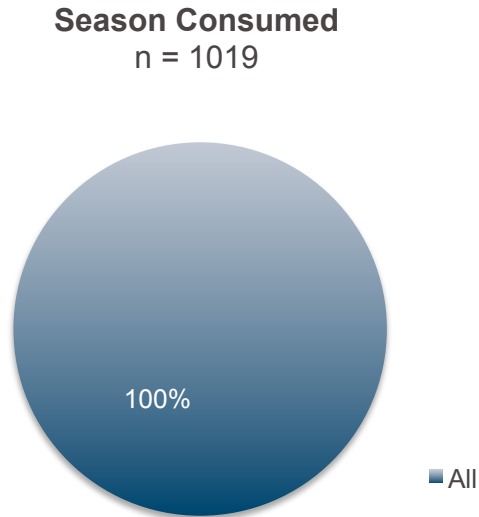
Weekly Consumption Frequency: Women
n = 970, $\sigma = 0.67$



Weekly Consumption Frequency: Children
n = 937, $\sigma = 0.69$

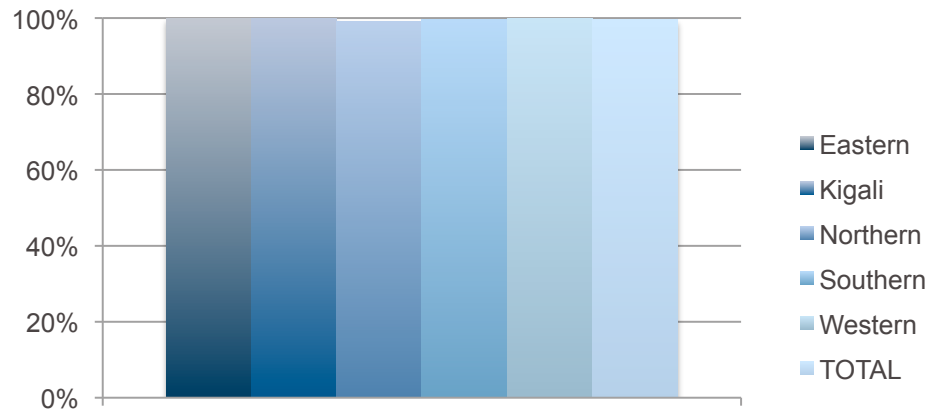


Salt: When Consumed

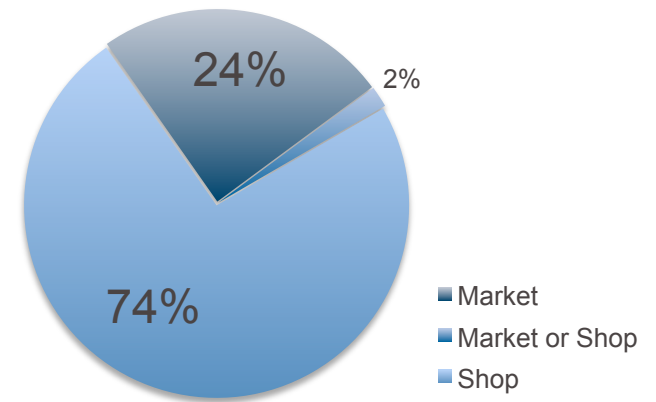


Salt: Purchase Rate and Location

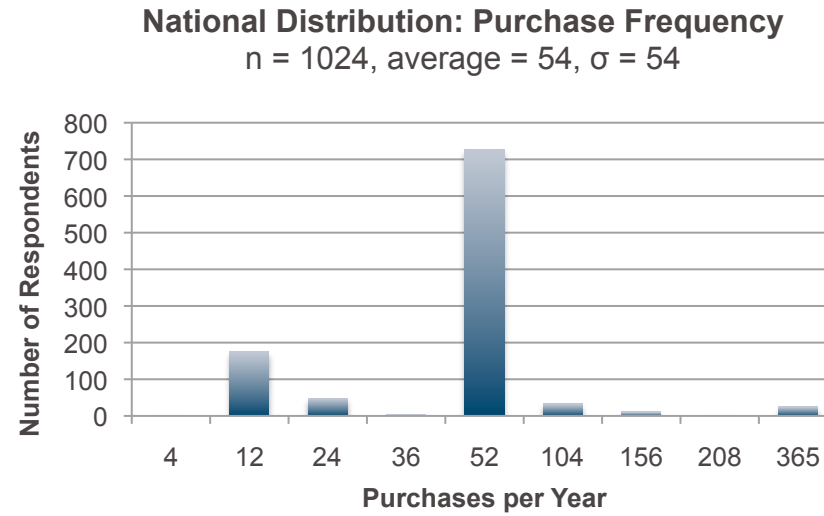
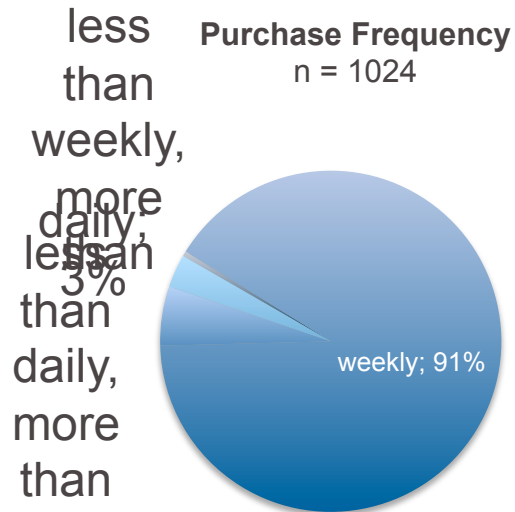
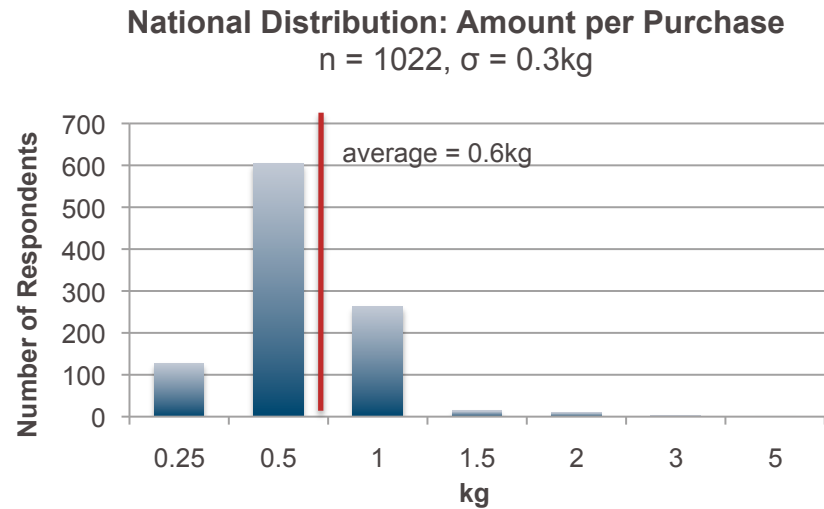
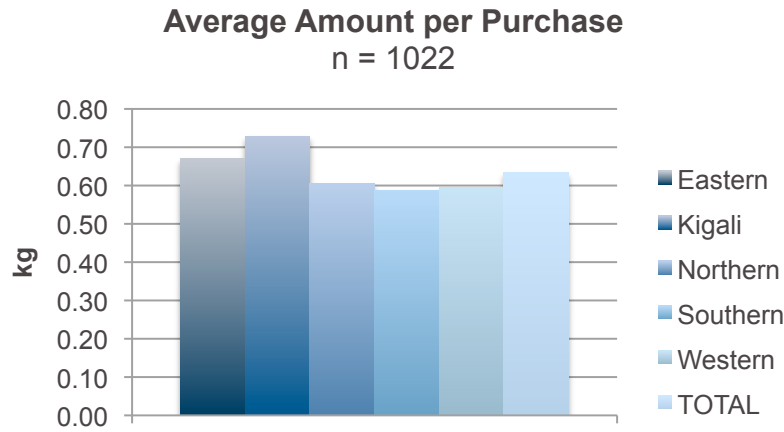
Percent Who Purchase
n = 1024



Purchase Location
n = 1021

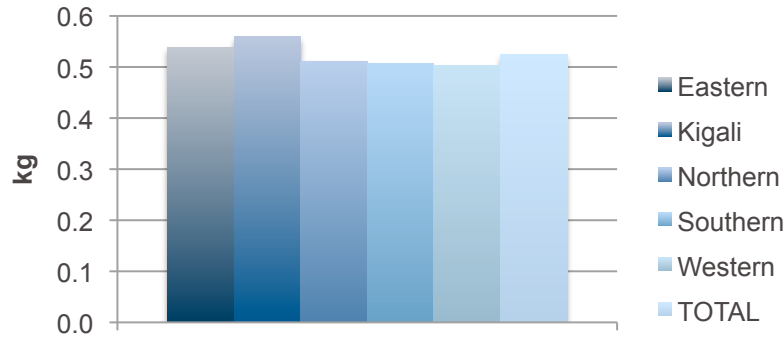


Salt: Purchase Amount and Frequency

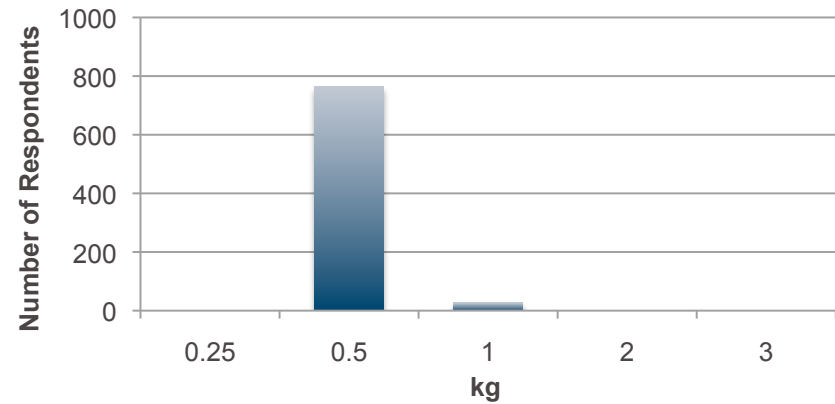


Salt: Storage

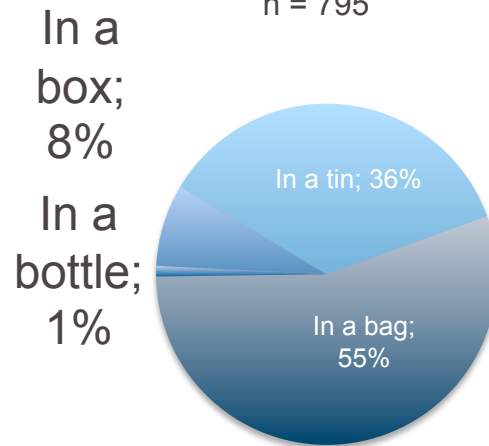
Average Amount In Home
n = 796



National Distribution: Amount In Home
n = 796, average = 0.5kg, $\sigma = 0.1$ kg

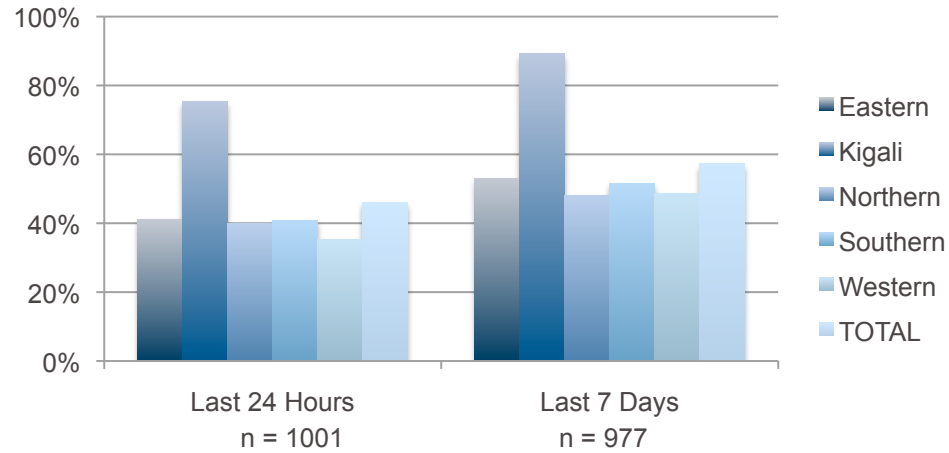


Storage Method
n = 795

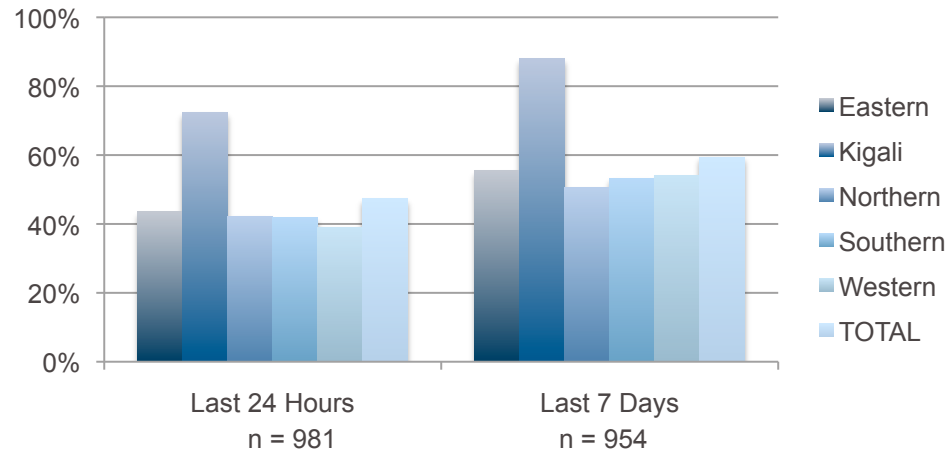


Sugar: Daily and Weekly Consumption

Consumption: Women

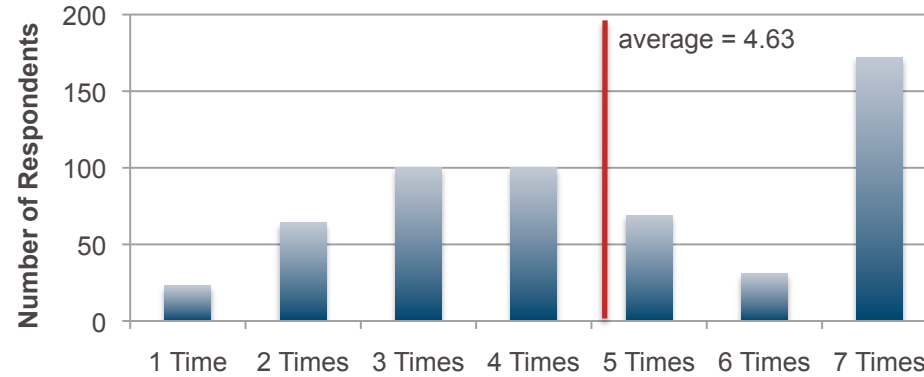


Consumption: Children

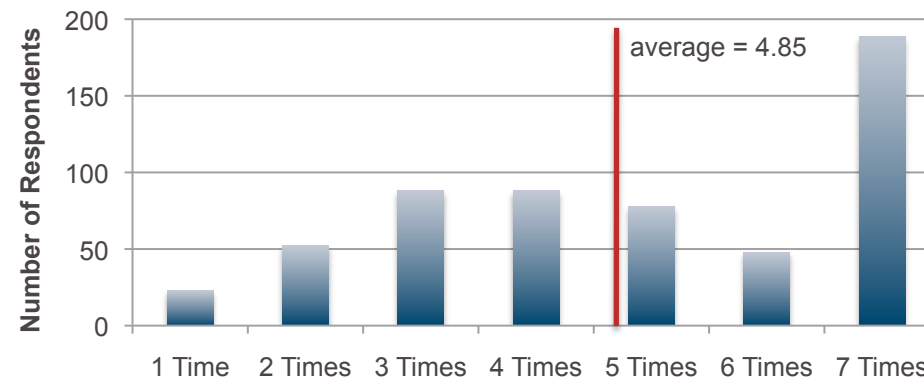


Sugar: Frequency of Consumption

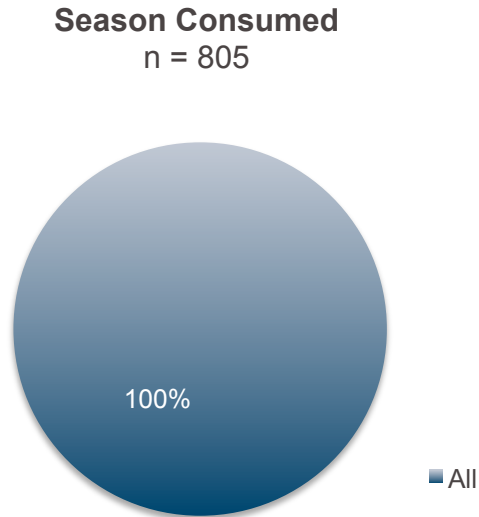
Weekly Consumption Frequency: Women
n = 559, $\sigma = 1.93$



Weekly Consumption Frequency: Children
n = 566, $\sigma = 1.91$

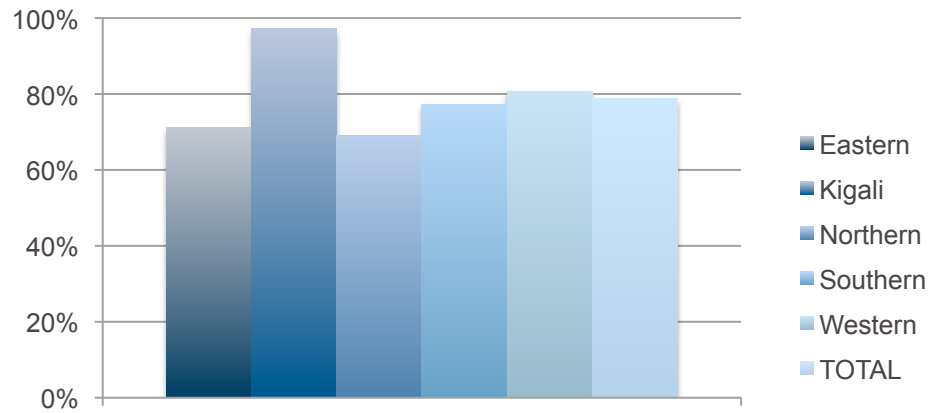


Sugar: When Consumed

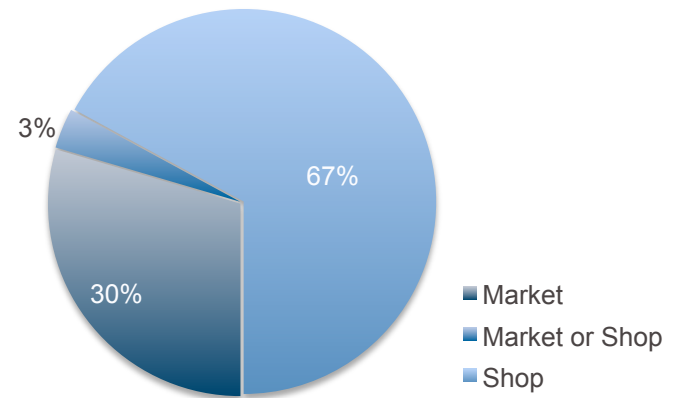


Sugar: Purchase Rate and Location

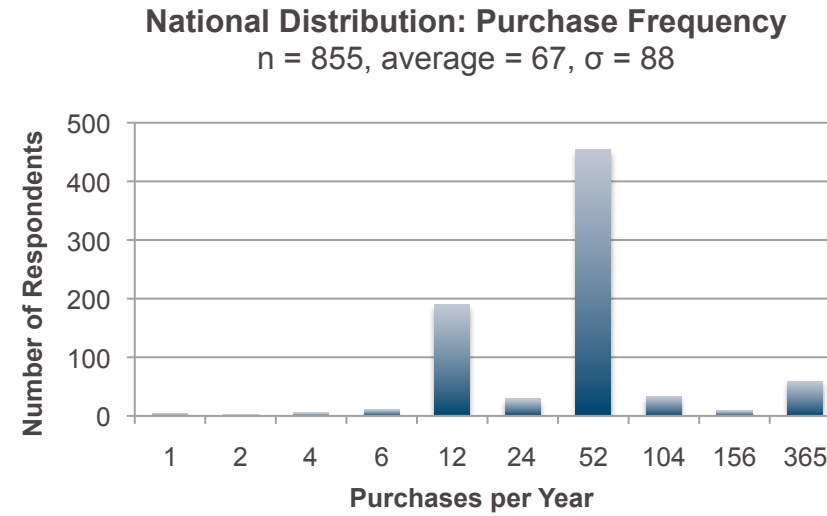
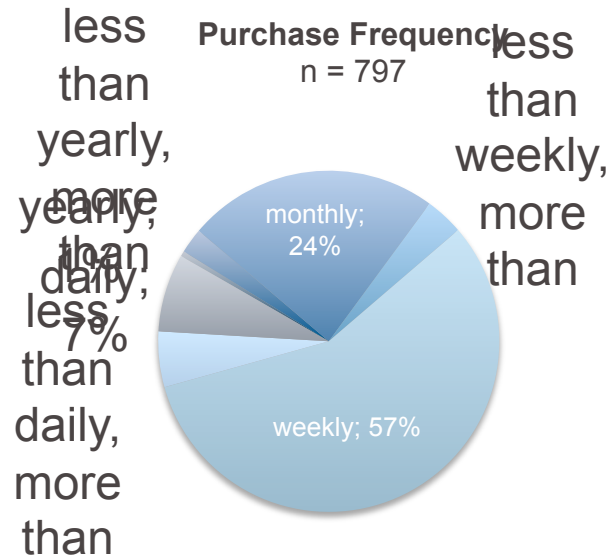
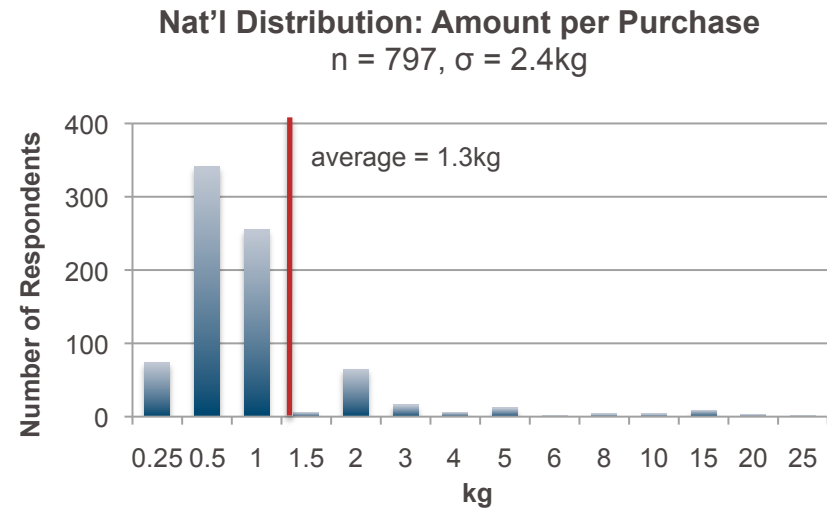
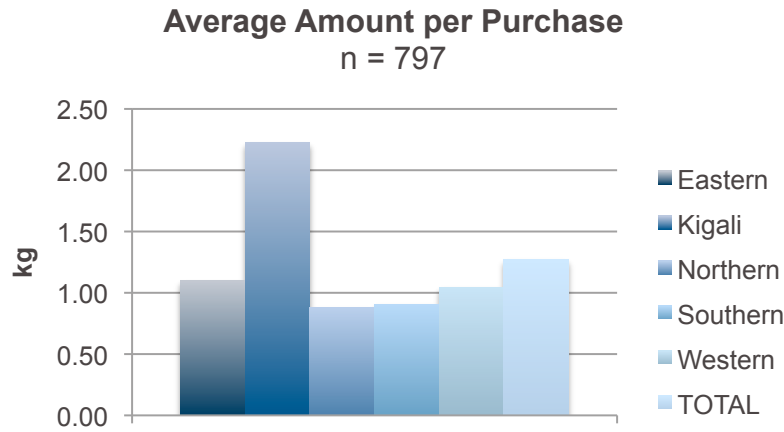
Percent Who Purchase
n = 1018



Purchase Location
n = 802

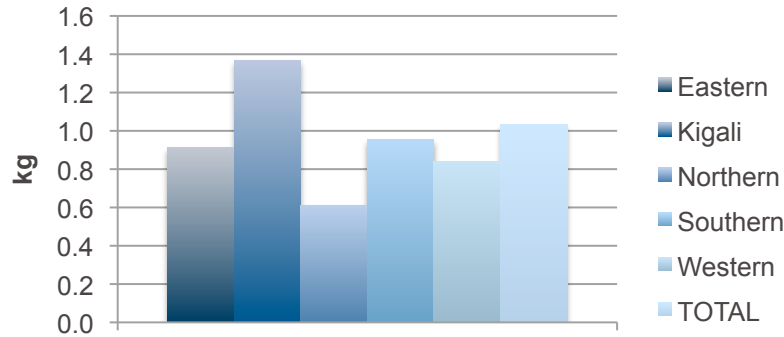


Sugar: Purchase Amount and Frequency

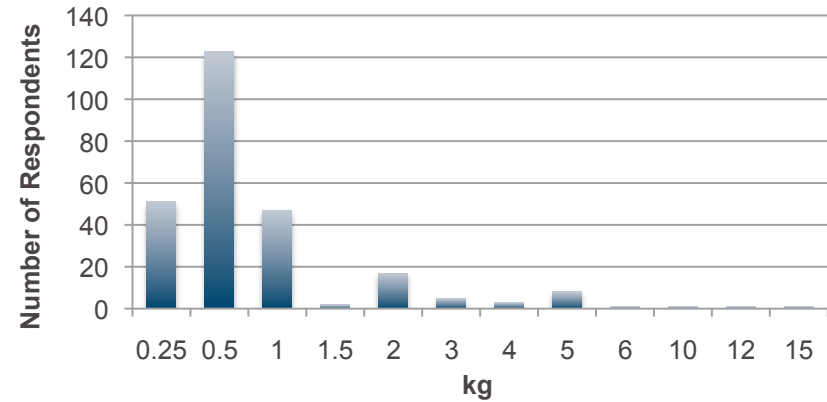


Sugar: Storage

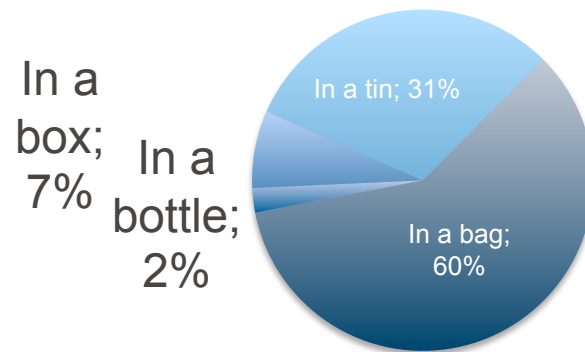
Average Amount In Home
n = 260



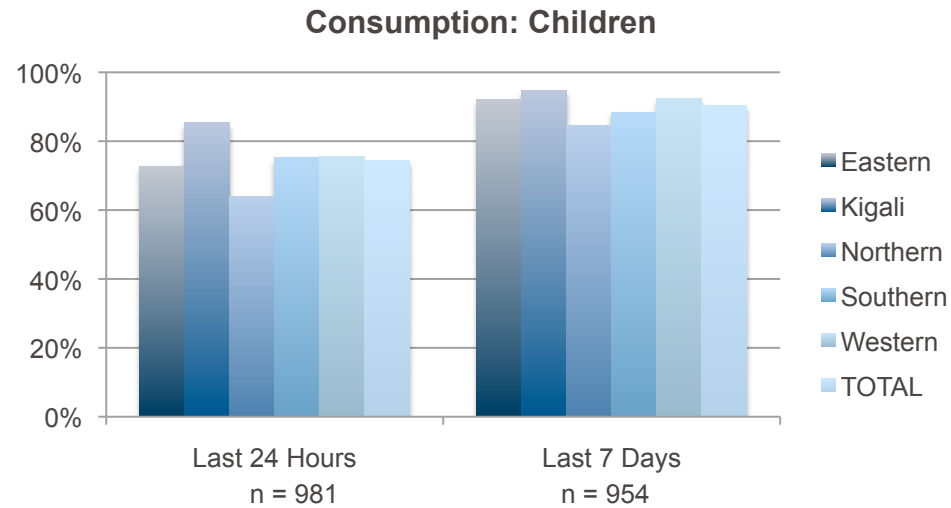
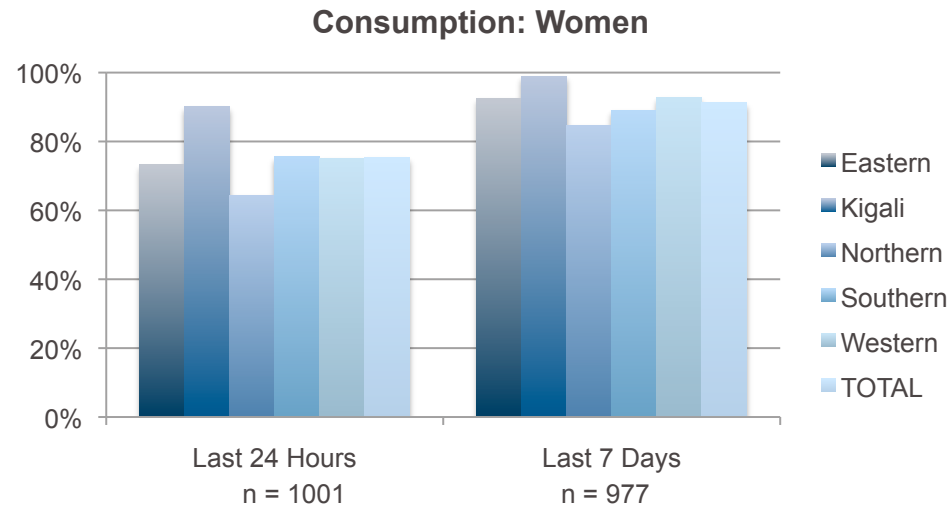
National Distribution: Amount In Home
n = 260, average = 1.0kg, $\sigma = 1.6$ kg



Storage Method
n = 259

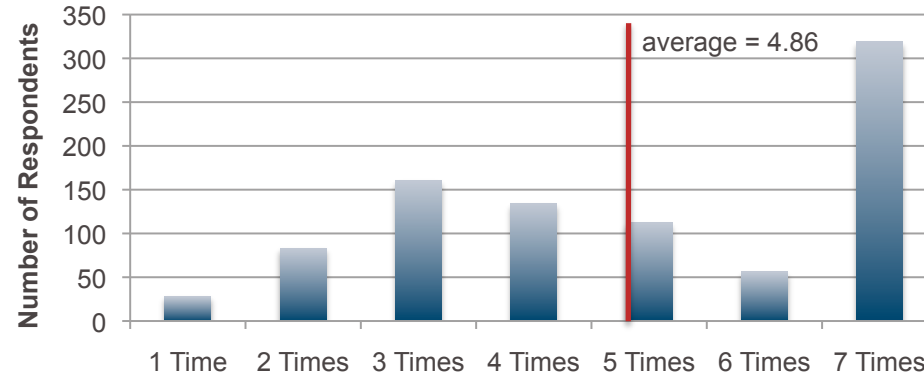


Oil: Daily and Weekly Consumption

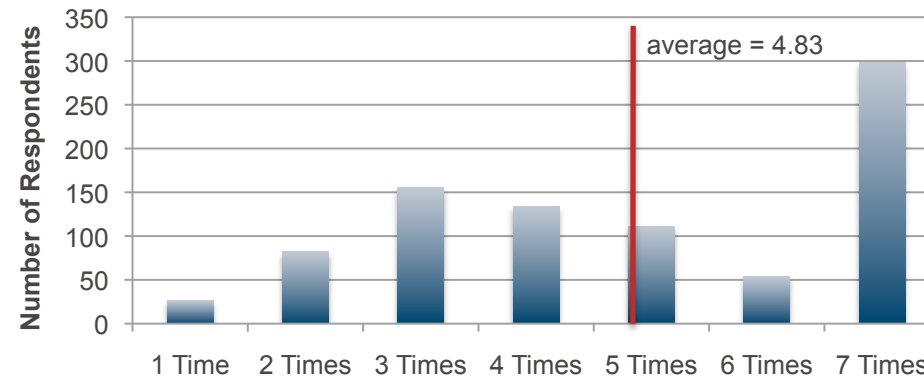


Oil: Frequency of Consumption

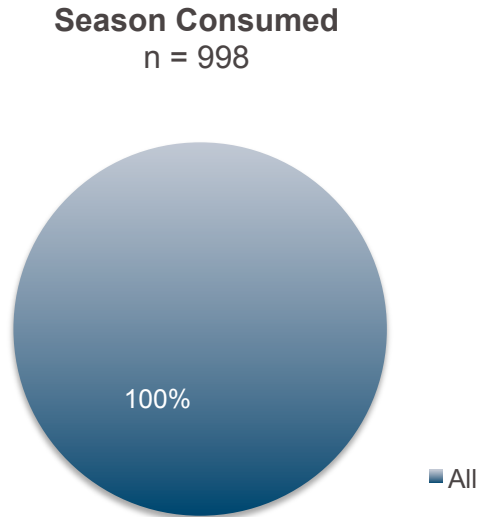
Weekly Consumption Frequency: Women
n = 892, $\sigma = 1.92$



Weekly Consumption Frequency: Children
n = 861, $\sigma = 1.91$

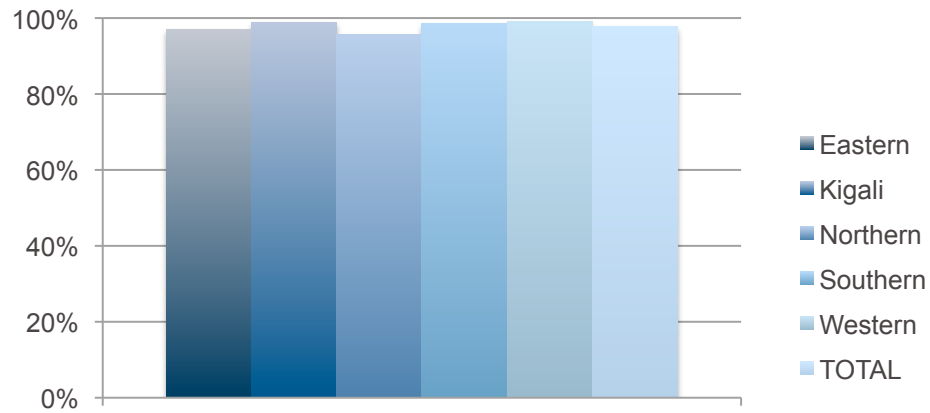


Oil: When Consumed

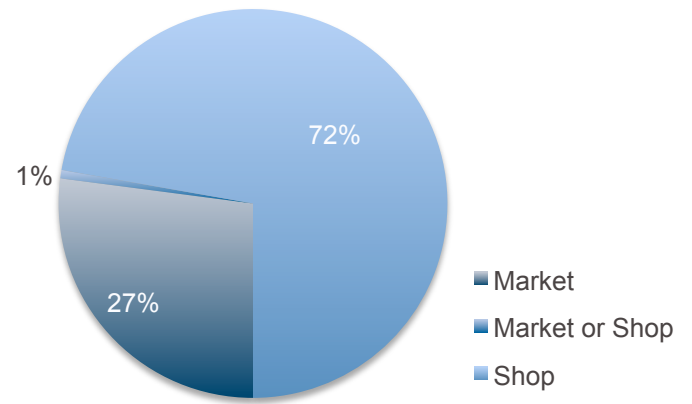


Oil: Purchase Rate and Location

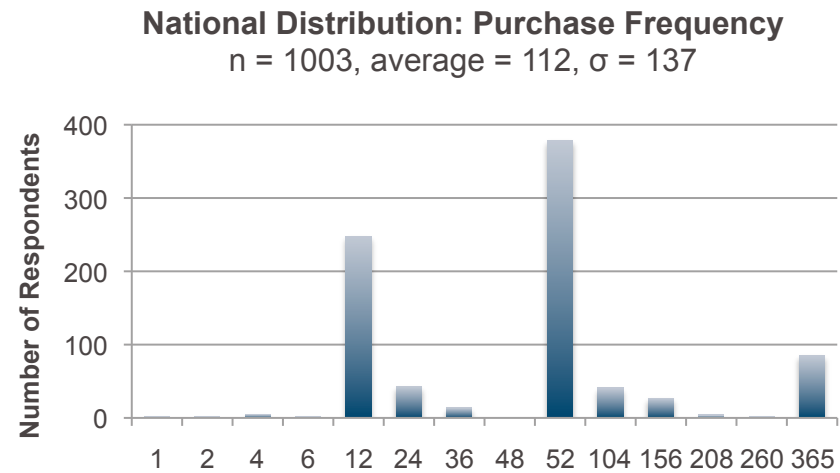
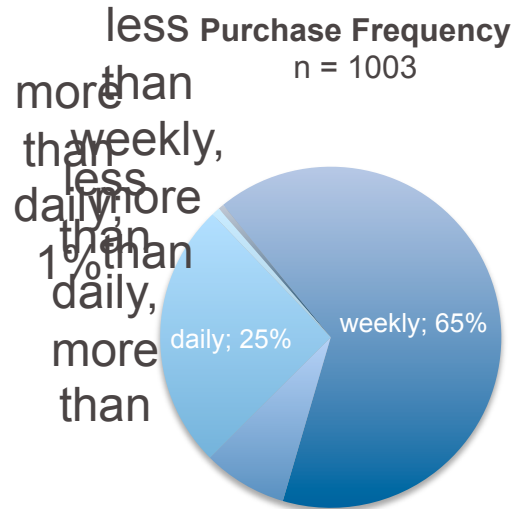
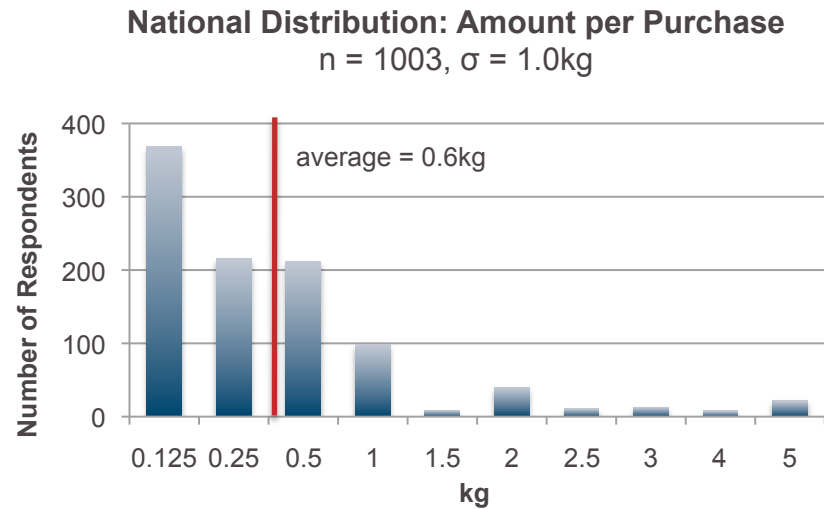
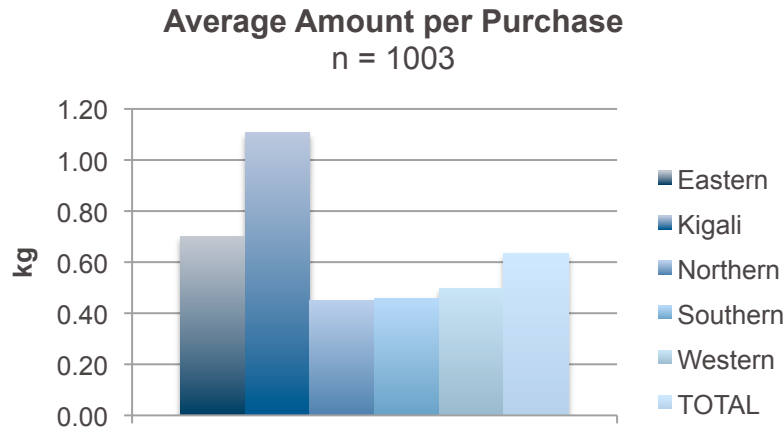
Percent Who Purchase
n = 1027



Purchase Location
n = 1005

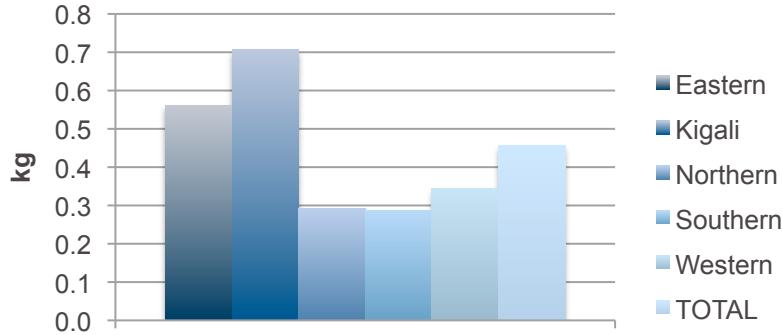


Oil: Purchase Amount and Frequency



Oil: Storage

Average Amount In Home
n = 476



National Distribution: Amount In Home
n = 476, average = 0.5kg, $\sigma = 0.8\text{kg}$

