

Consumer habits and their impact on the safety of REPFEDs. Results of a survey in Belgium

ir. Jeff Daelman

Content

- * Why this survey? "what's the point?"
- * How / When / Where?
- * What info do we need?
- * Q&A (of the questionnaire)
- Time to consumption
- Effect of exposure
- Conclusions











Shelf life 14 - 45 days

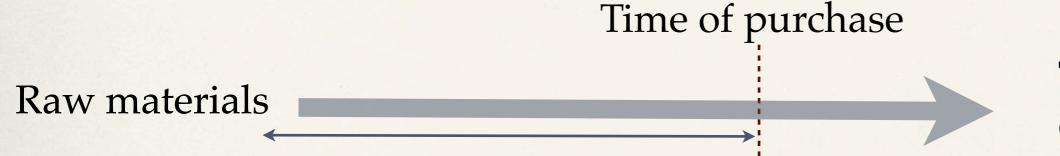
Raw materials

Time of consumption



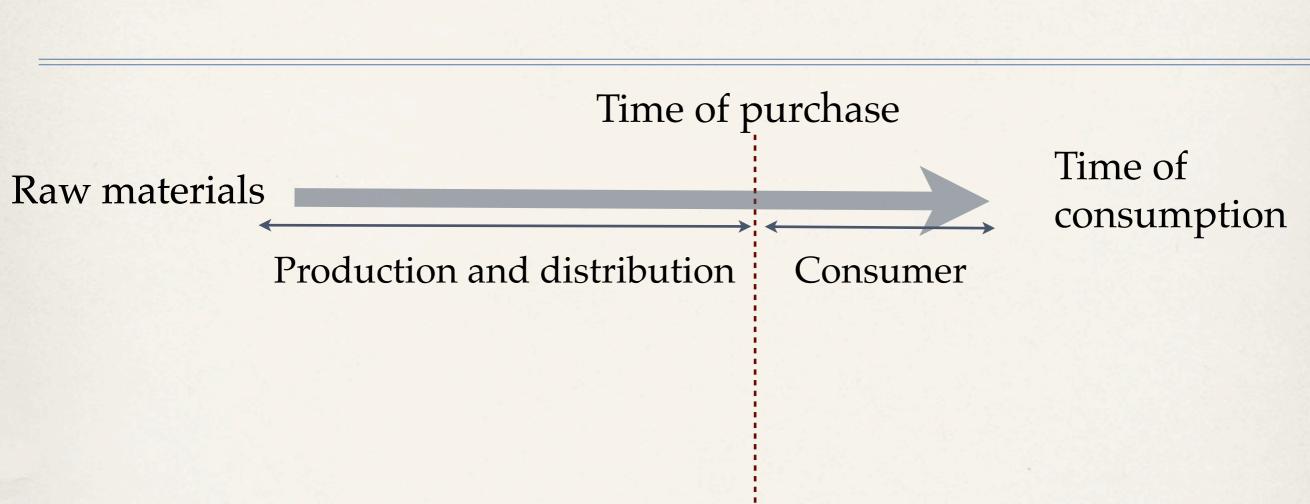
Production and distribution

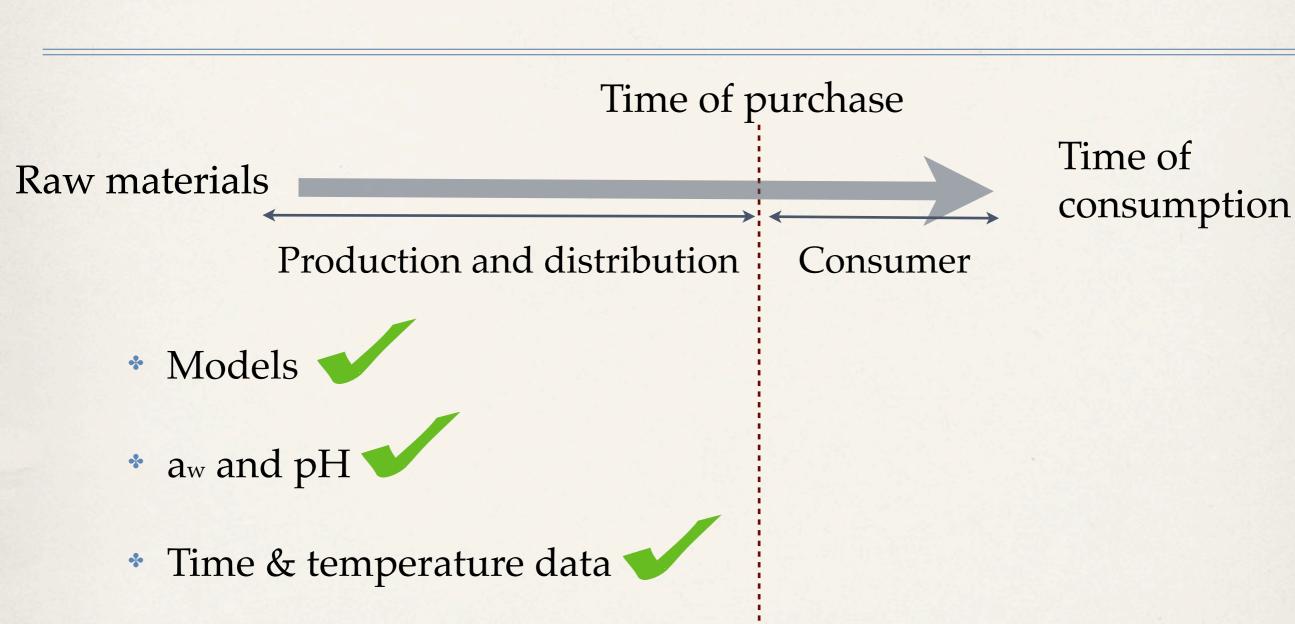
Time of consumption

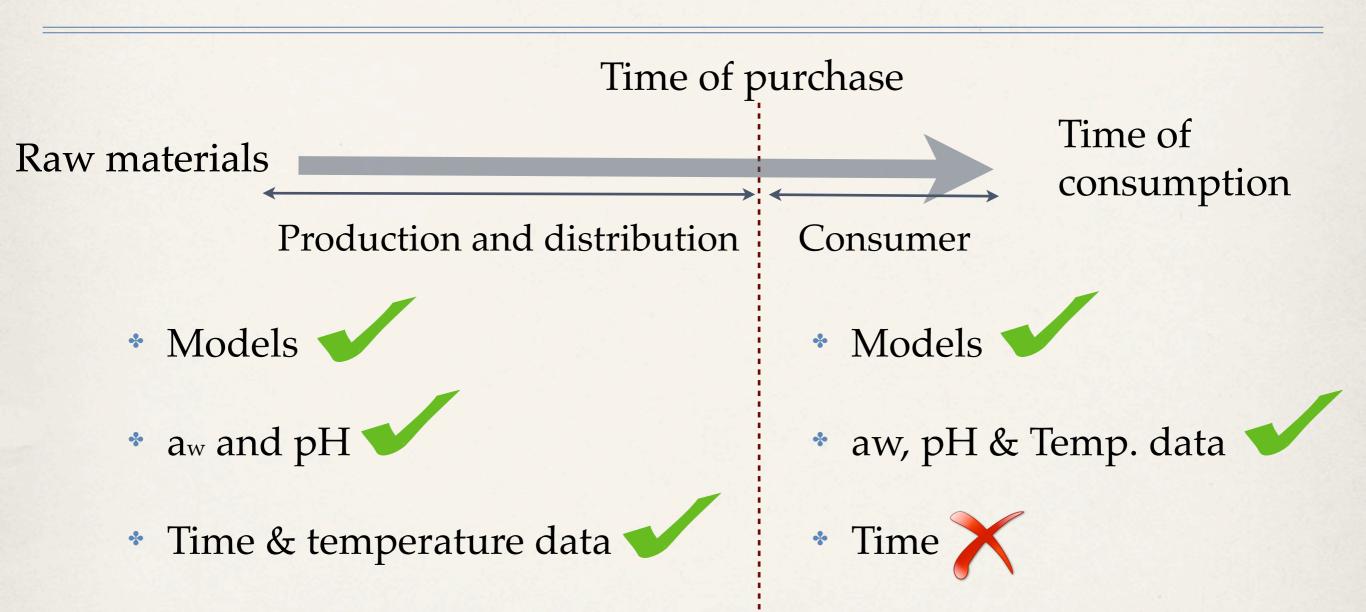


Production and distribution

Time of consumption







How/When/Where?

* "Gent Tastes": 17-20 May 2012





How/When/Where?

* "Gent Tastes" :17-20 May 2012





What is the time between purchase and consumption?

What is the time between purchase and consumption?

- * "How long do you store a REPFED?"
 - Consumer 1: 0 days
 - Consumer 2: 7 days
 - Consumer 3: 14 days
- Average = 7 days

What is the time between purchase and consumption?

- "How long do you store a REPFED?"
 - * Consumer 1: 0 days at 5 per week = 260 per year
 - * Consumer 2: 7 days at 2 per week = 104 per year
 - * Consumer 3: 14 days at 1 per month = 12 per year
- Average = 7 days

What is the time between purchase and consumption?

- "How long do you store a REPFED?"
 - * Consumer 1: 0 days at 5 per week = 260 per year
 - * Consumer 2: 7 days at 2 per week = 104 per year
 - * Consumer 3: 14 days at 1 per month = 12 per year
- * $\underline{\text{Average}} = 7 \text{ days}$ $\underline{\text{W}}$

Weighted average = 2.3 days

- A. How long do you store a REPFED?
- B. How frequently do you purchase a REPFED?
- C. Do you still consume a REPFED after the 'use by' date?

The questionnaire

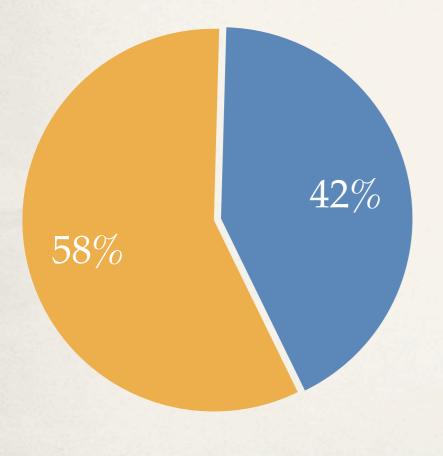
- 1. Gender & Age
- 2. Do you consume REPFEDs?
- 3. How frequently do you consume REPFEDs?
- 4. When you buy a REPFED, how (long) do you store it?
- 5. How good do you respect the 'use by' date?
- 6. How closely do you follow the reheating guidelines?

Gender & Age

- * 931 participants
- * 874 "correct"

Gender & Age

- * 931 participants
- * 874 "correct"



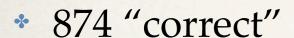
Female

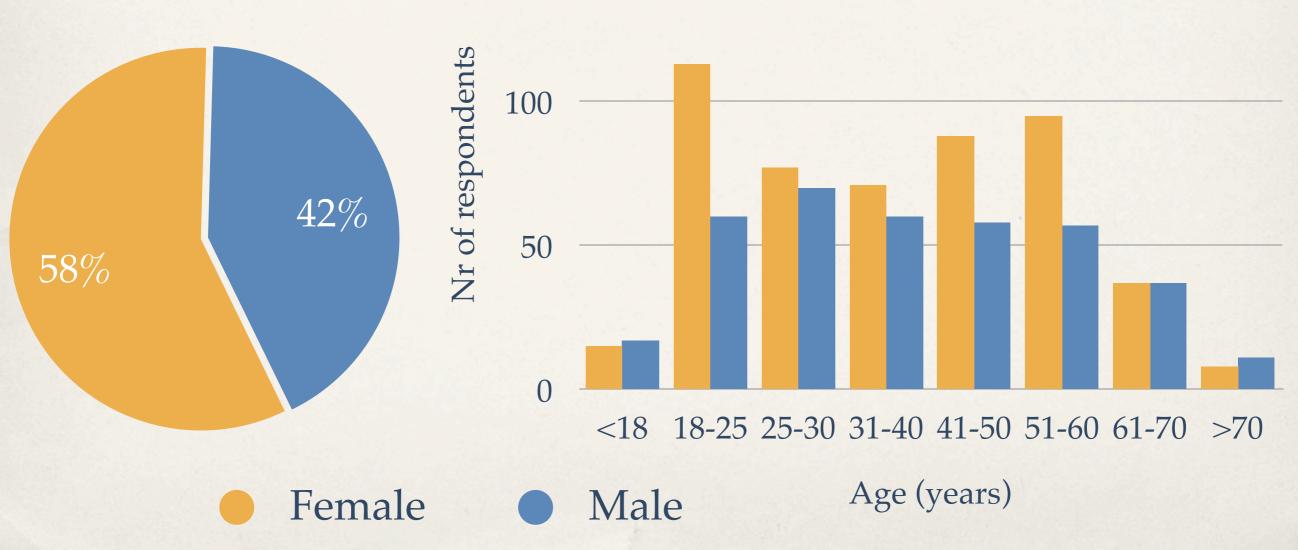


Male

Gender & Age

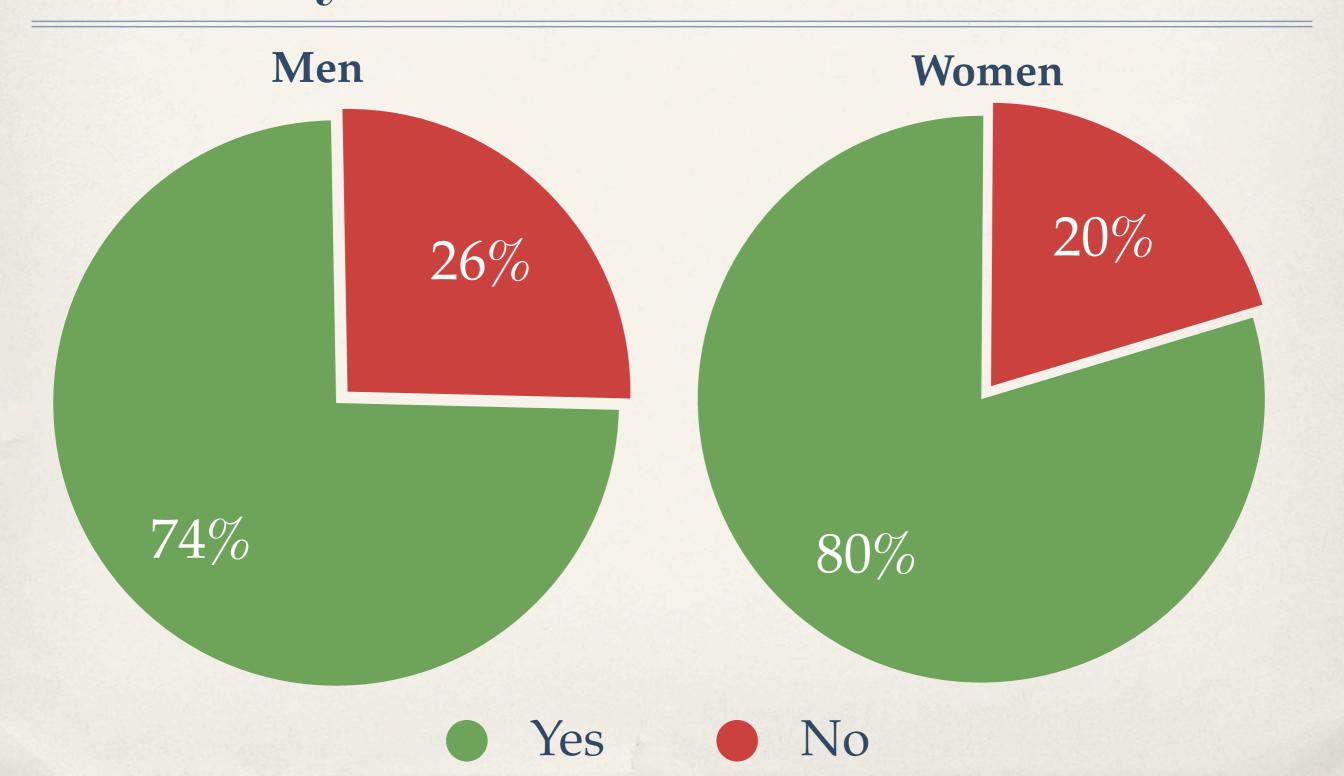
* 931 participants





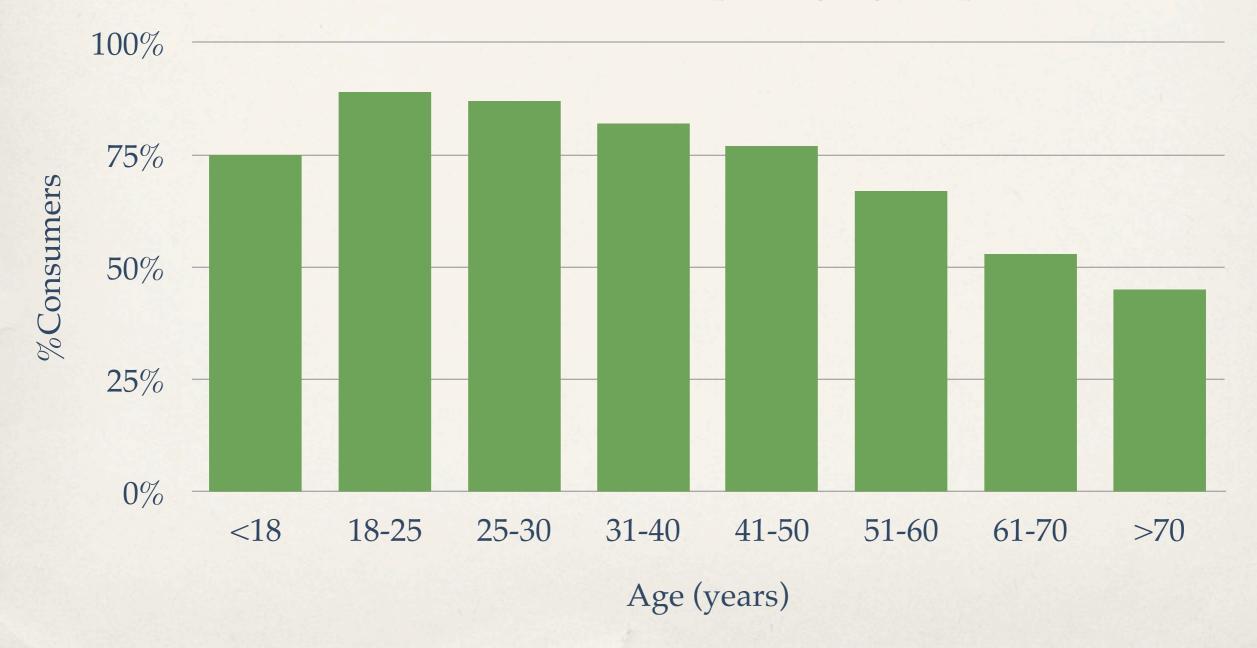
150

Have you bought a REPFED in the last year? - Yes/No

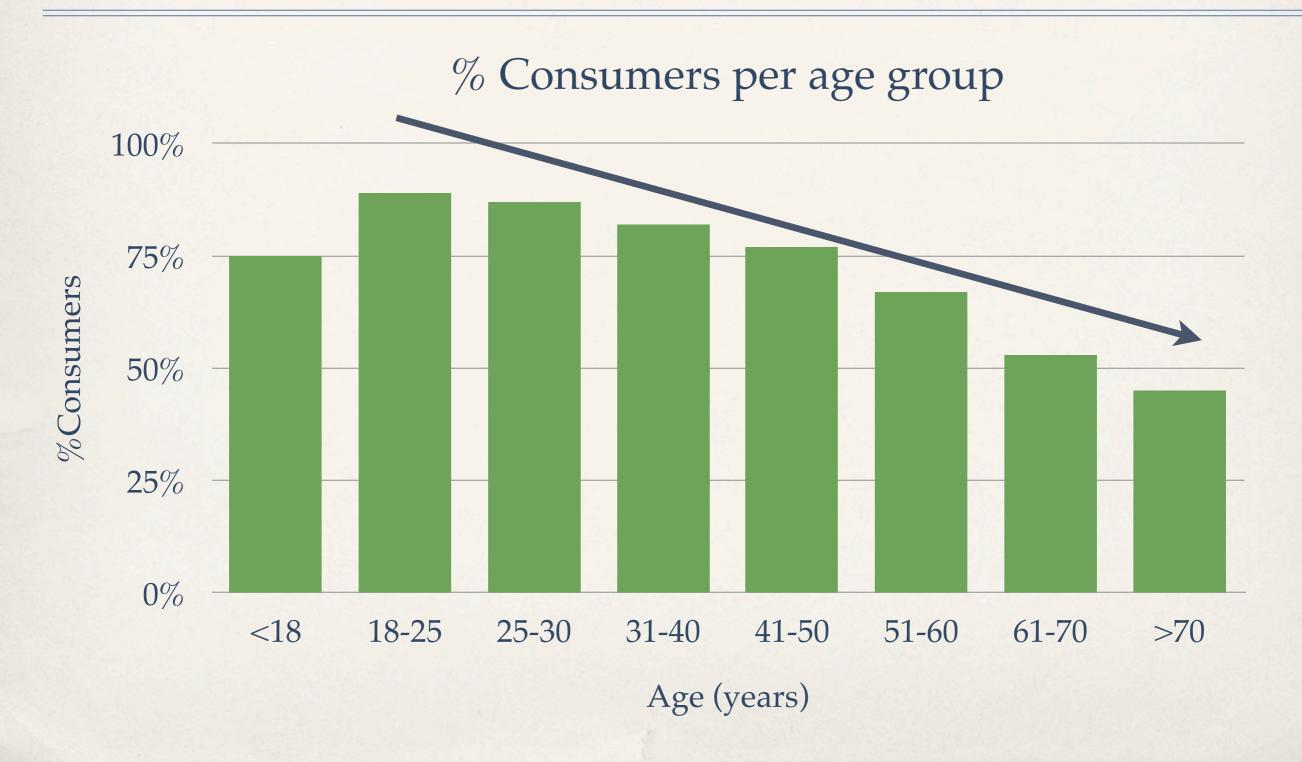


Have you bought a REPFED in the last year? - Yes/No

% Consumers per age group



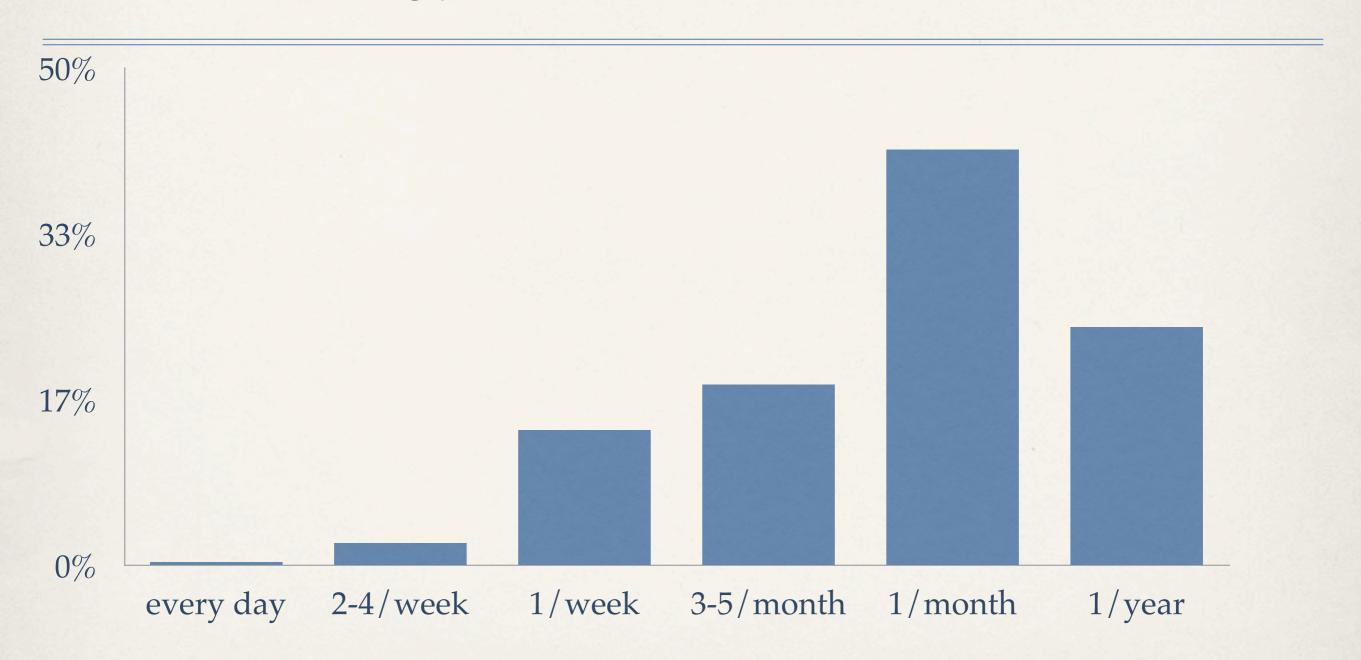
Have you bought a REPFED in the last year? - Yes/No



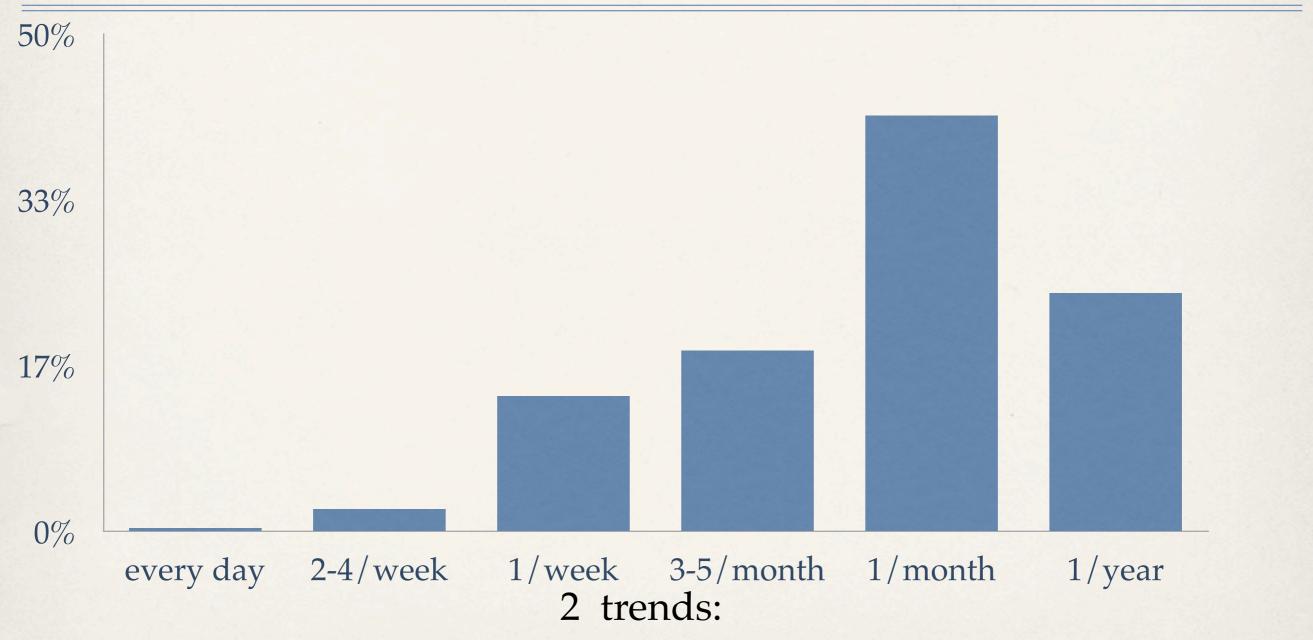
How frequently do you buy REPFEDs?

- a. Almost every day (5-7 a week)
- b. 2-4 times per week
- c. Once a week
- d. 3-5 times a month
- e. Once a month
- f. Once a year
- g. Never (extra check)

How frequently do you buy REPFEDs?



How frequently do you buy REPFEDs?



Men buy more frequently than women Younger people buy more frequently than older people

Multiple answers allowed

a. In the fridge: 0 days

b. In the fridge: 1-3 days

c. In the fridge: 4-7 days

d. In the fridge: up to two weeks

e. In the fridge: more than two weeks

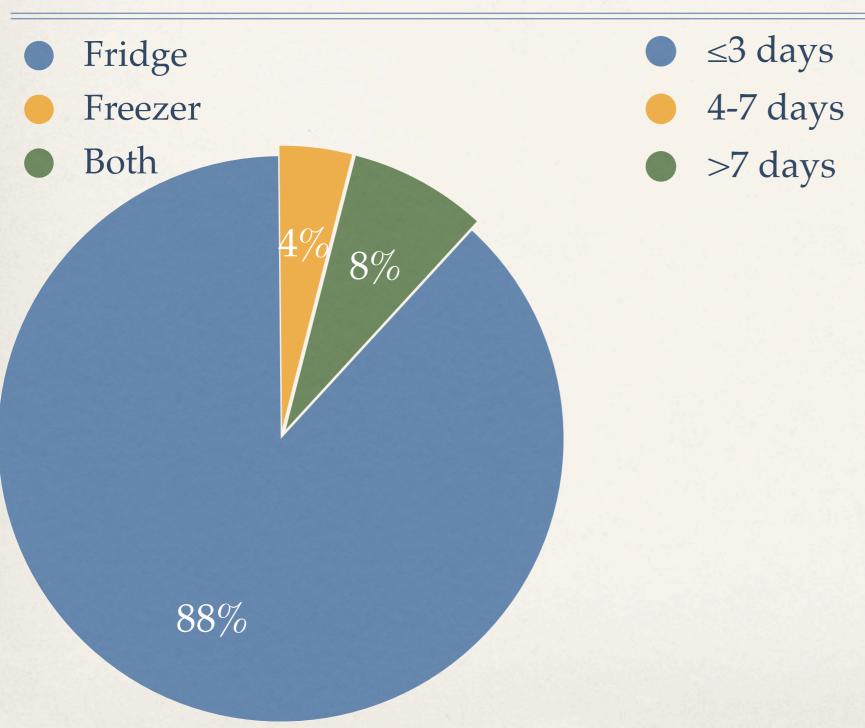
f. In the freezer: + 0 days in fridge

g. In the freezer: + 1-3 days in fridge

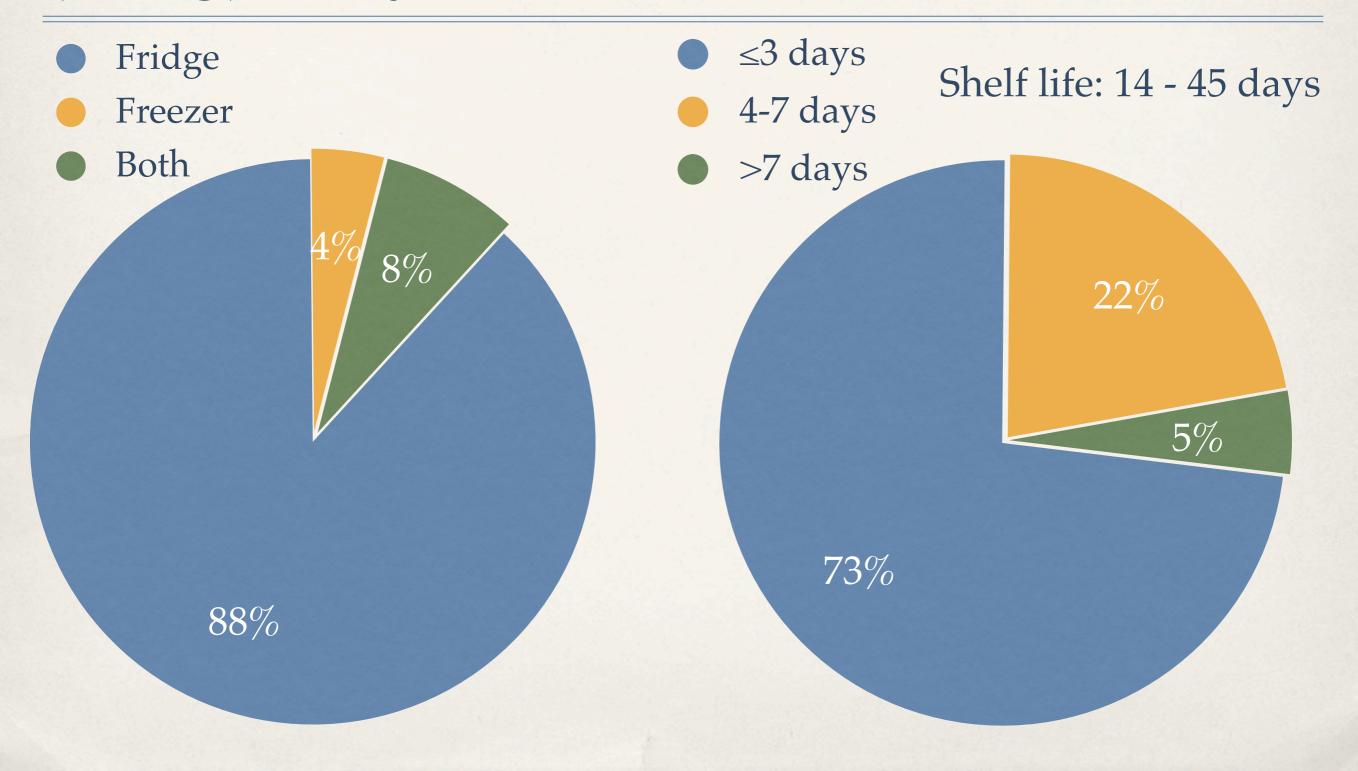
- Fridge
- Freezer
- Both

- ≤3 days
- 4-7 days
- >7 days

Shelf life: 14 - 45 days



Shelf life: 14 - 45 days

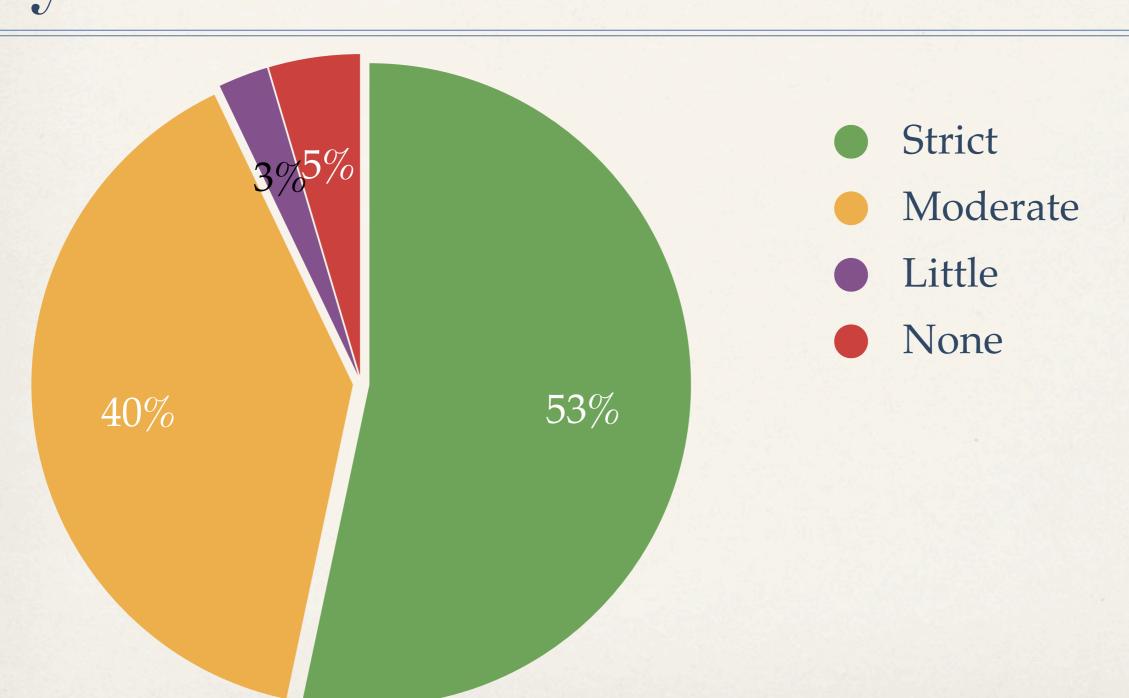


- Most important link:
 - * Frequency Storage time

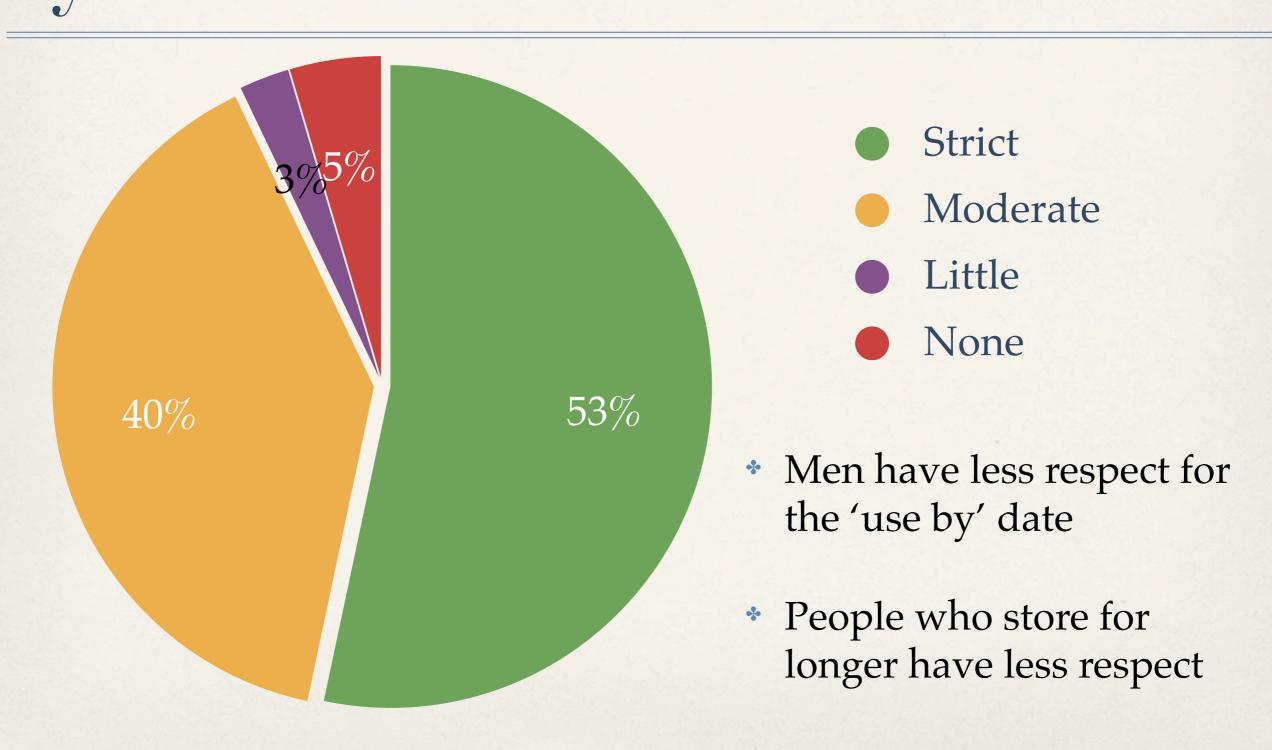
How good do you respect the 'use by' date?

- a. "Strict" = 0 days of margin
- b. "Moderate" = 2-3 days of margin
- c. "Limited" = X days of margin (indicate how much)
- d. "I don't'' = look/smell

How good do you respect the 'use by' date?



How good do you respect the 'use by' date?



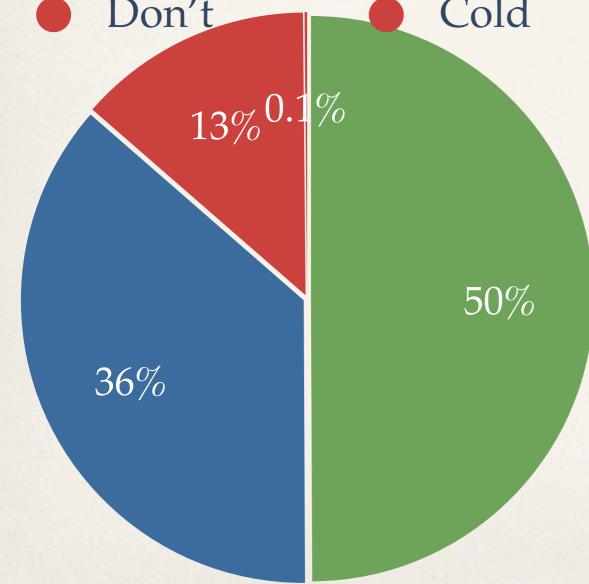
How closely do you follow the reheating guidelines?

- * e.g. 800 Watt for 4 minutes, stir after 2 minutes
- * e.g. Put on heat resistant tray and heat for 10 minutes at 180°C

- a. "Completely"
- b. "Partially"
- c. "I don't follow the instruction, warm is OK"

How closely do you follow the reheating guidelines?



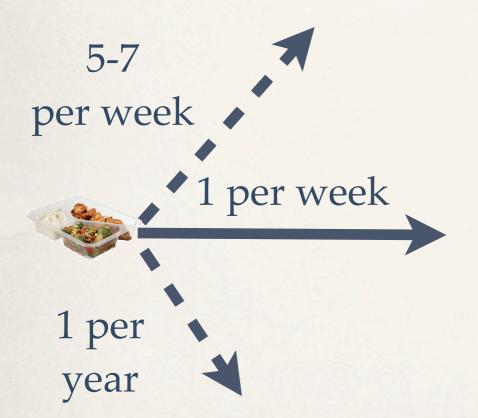


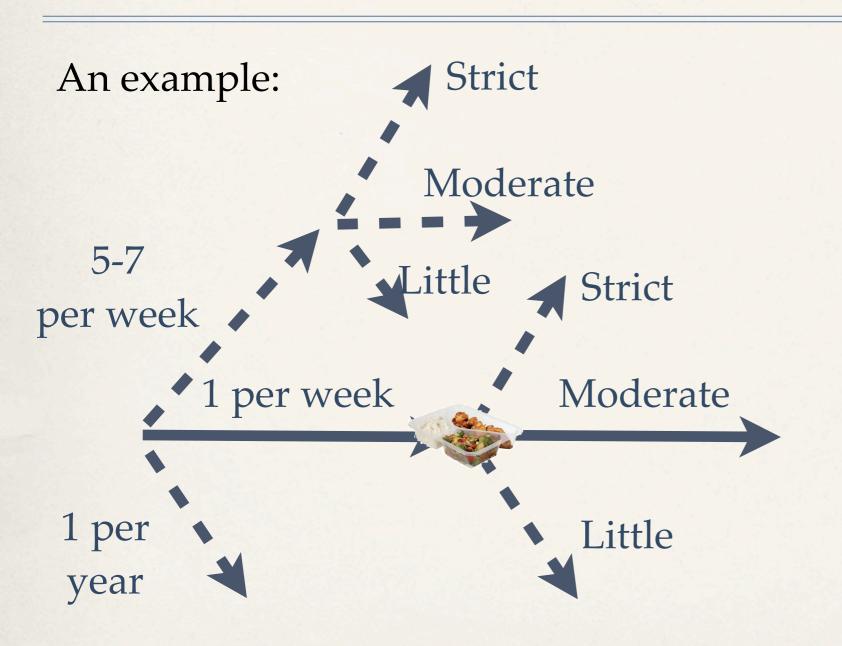
- The elderly do better than the young
- People with less respect for 'use by' date do worse

- * Questions 3, 4 and 5
- * Correlated Conditional
- "the REPFED's point of view"
- What is the probability that REPFED is consumed by a consumer who:
 - 1. has a certain frequency of consumption
 - 2. and has a certain respect for the 'use by' date
 - 3. and who stores the product for a certain time

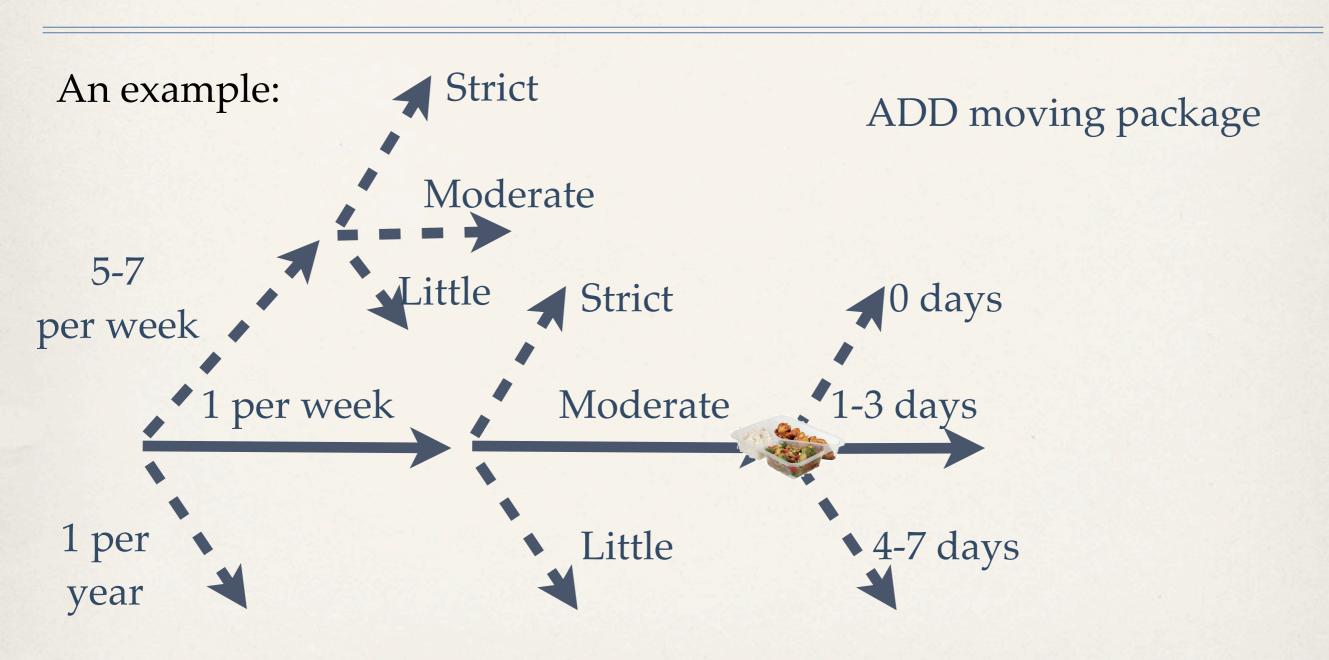
An example:

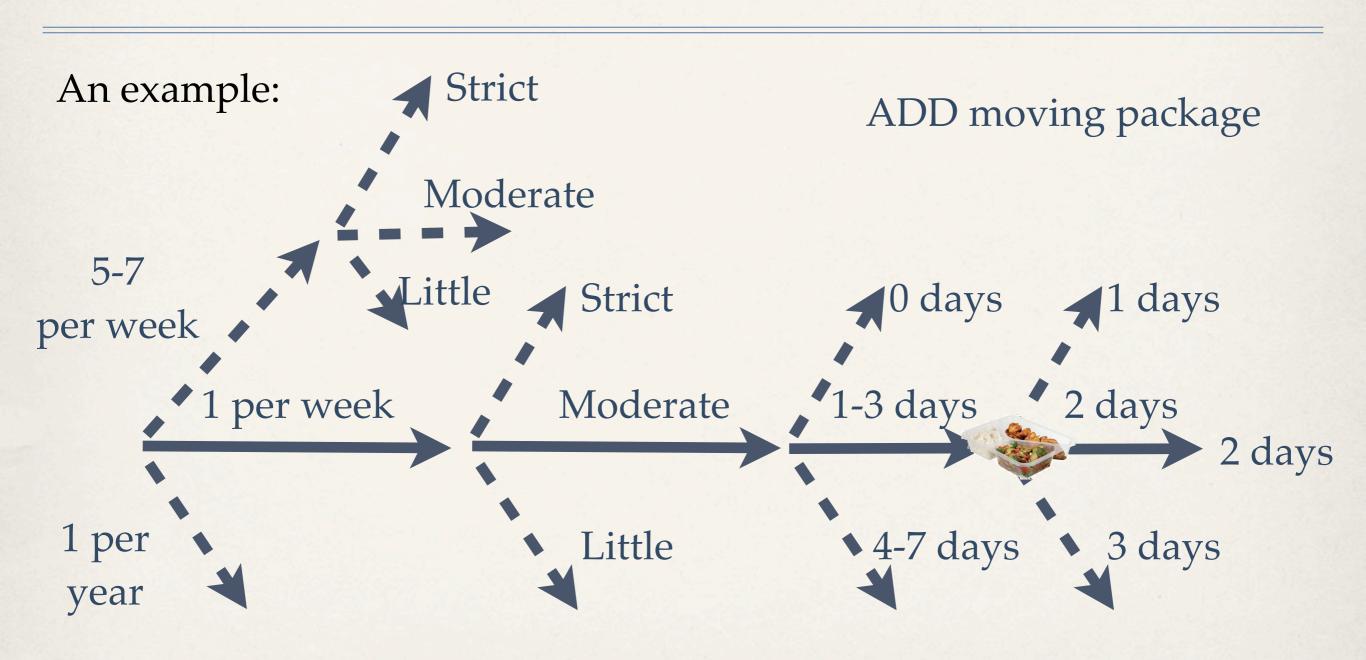
ADD moving package

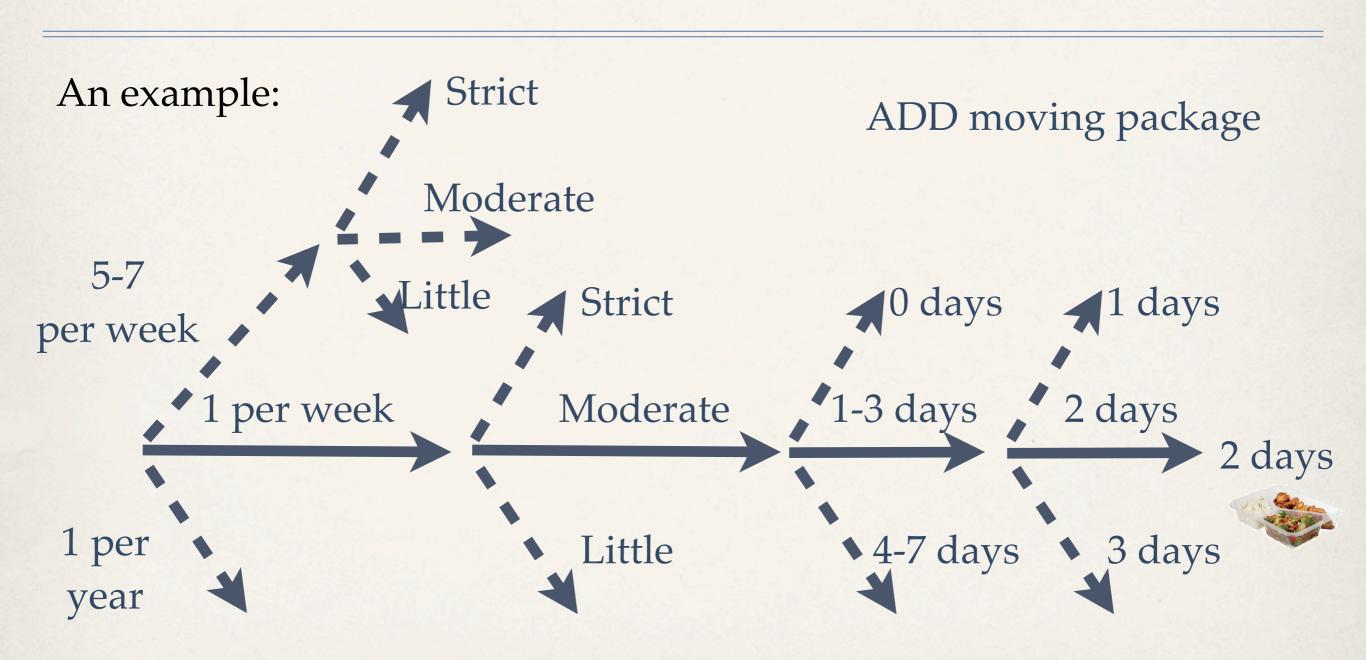


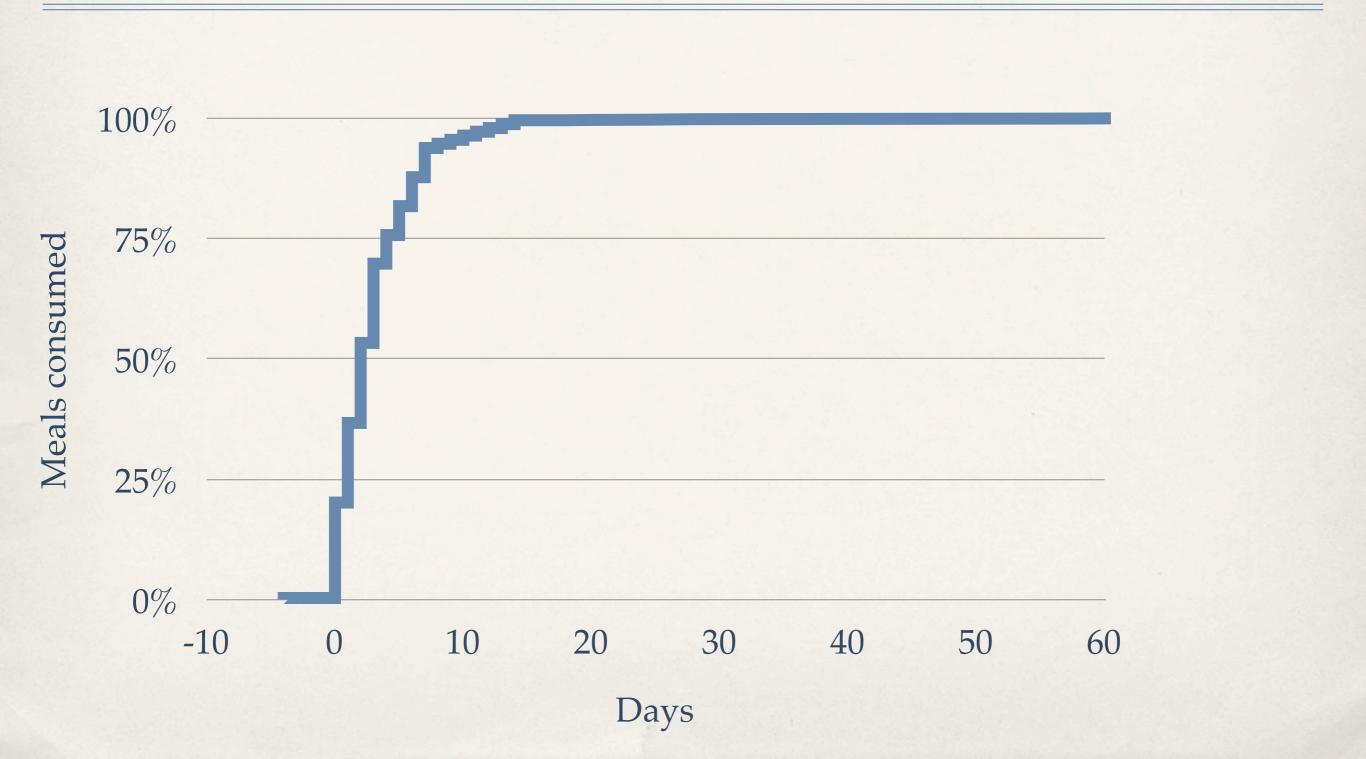


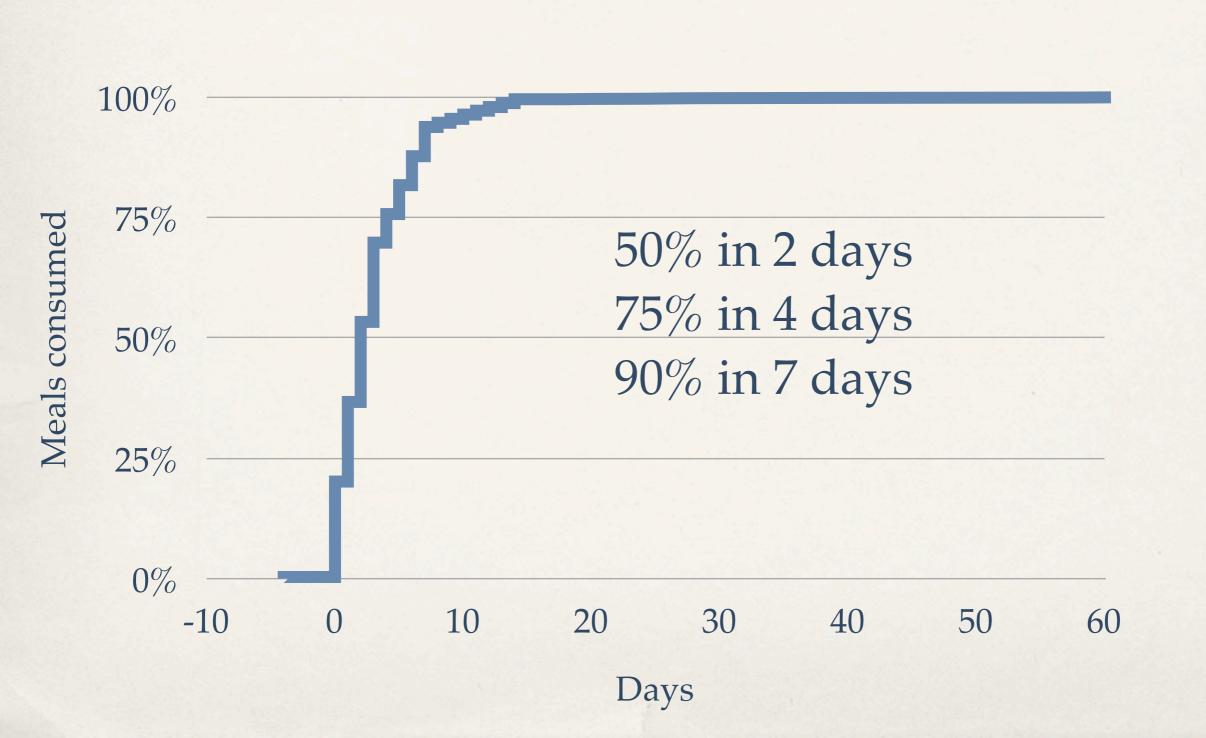
ADD moving package





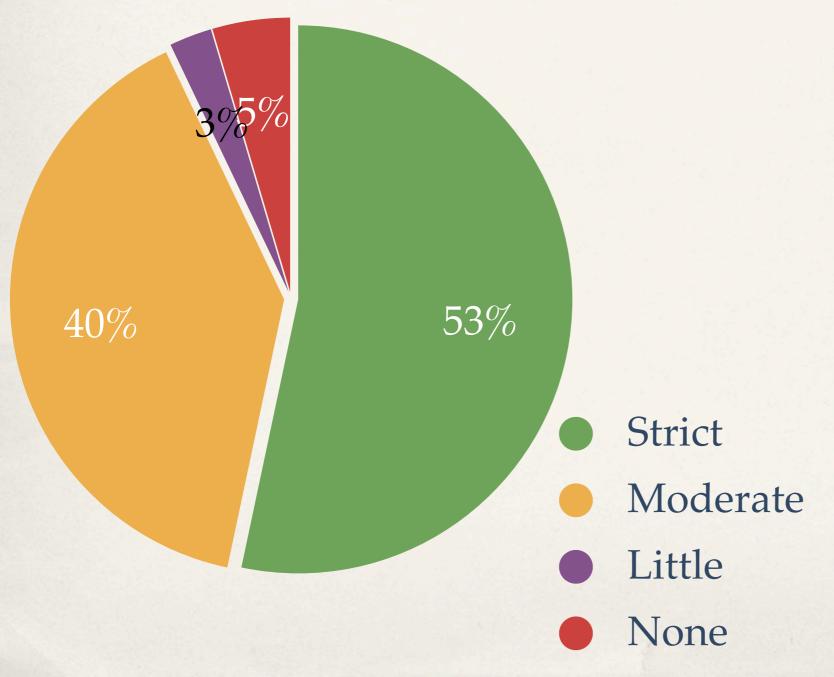




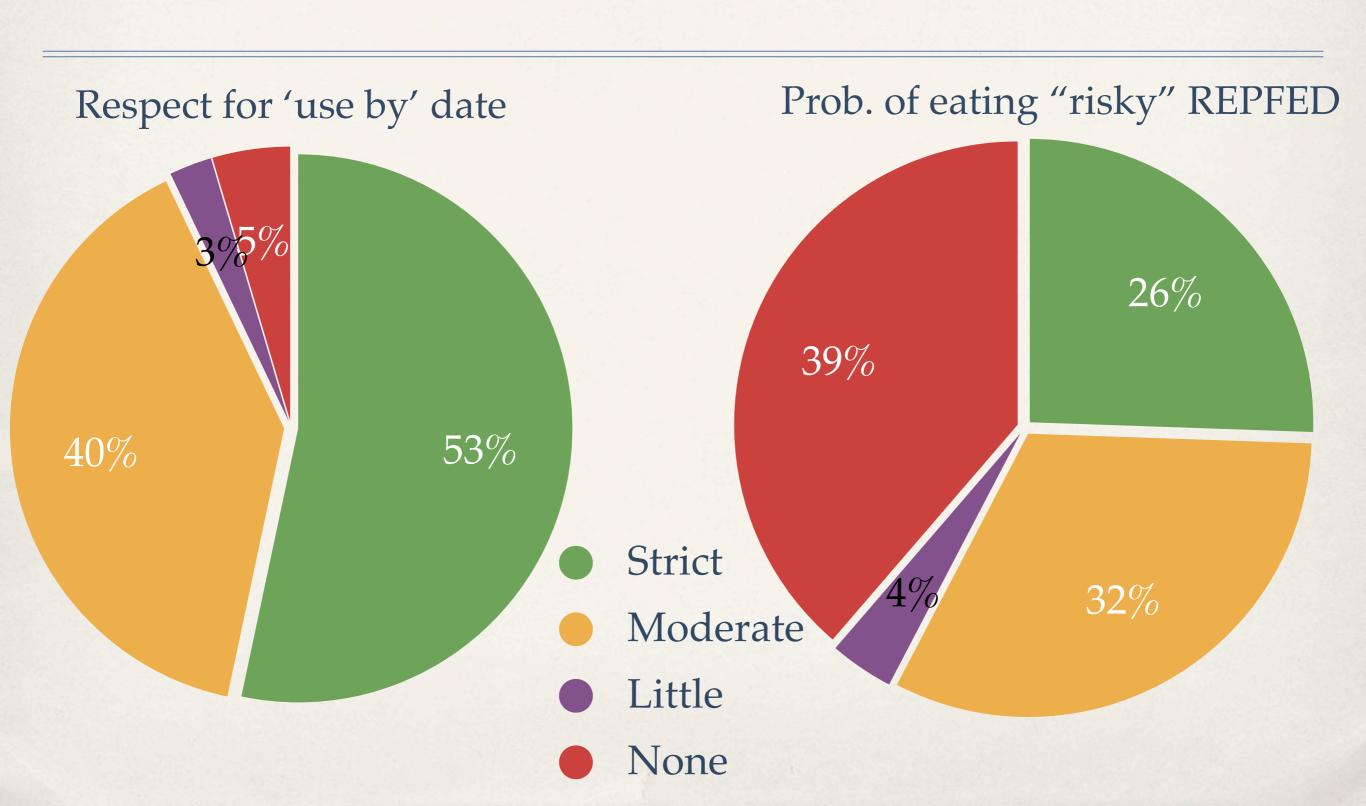


Behaviour and effect





Behaviour and effect



Conclusion

- Survey is lot of effort, but worthwile
- * Consumer behaviour in other cultures/countries?
- * B. cereus in Belgian REPFEDs:
 - "risky behaviour" do "all things wrong"
 - Frequent consumers are less exposed
 - * "Strict" consumers (53%) are less exposed

Conclusion





- * Do we have to include these "risky consumers"?
- * Can we?

Questions?