MALTEM school absenteeism overview

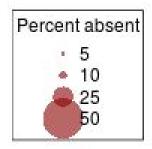
Laia Cirera Joe Brew Elisa Sicuri

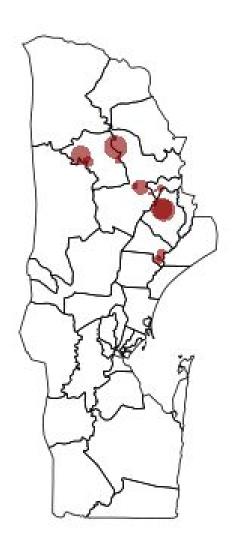
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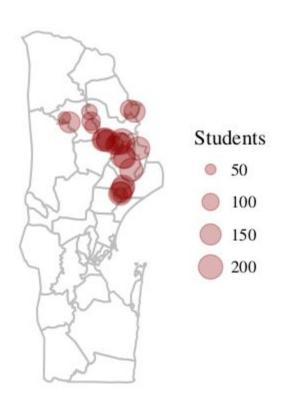
Baseline / Surveillance

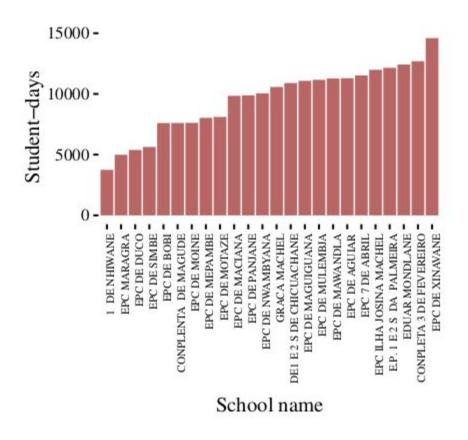
May 04, 2015





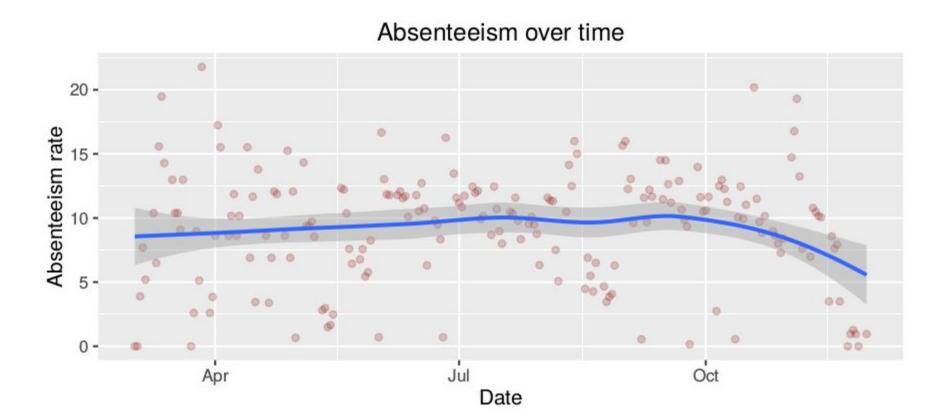
Data have been collected over three months on 25 schools, with a total of 3513 students. In total, 232663 unique student-days have been analyzed.





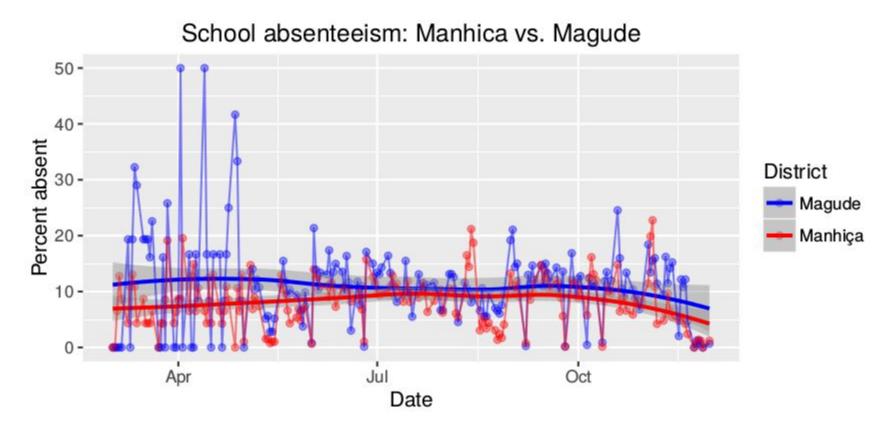
By time

When we combine all schools, we can estimate the overall seasonality of absenteeism.

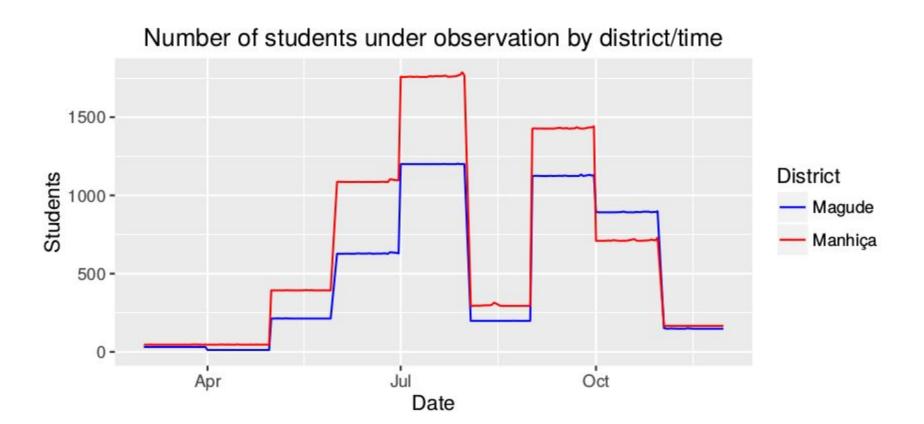


By district

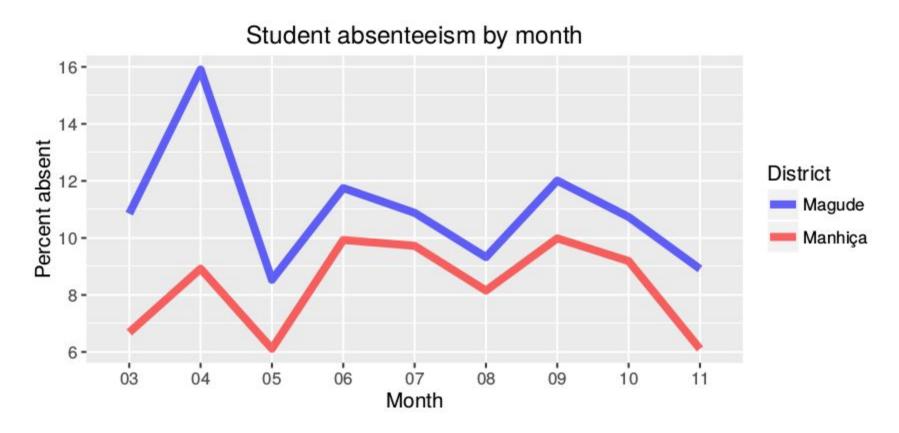
Generally speaking, absenteeism is slightly higher in Magude than in Manhiça:



However, it is worth noting that the number of students in Magude is fewer, and therefore more subject to natural variance:



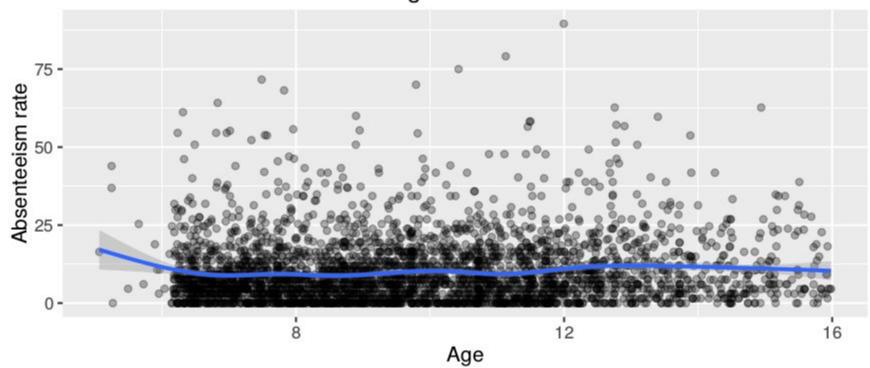
If we aggregate by month, we can examine absenteeism in a slightly smoother fashion:



By age

There is no clear trend between a student's age and their absenteeism rate.

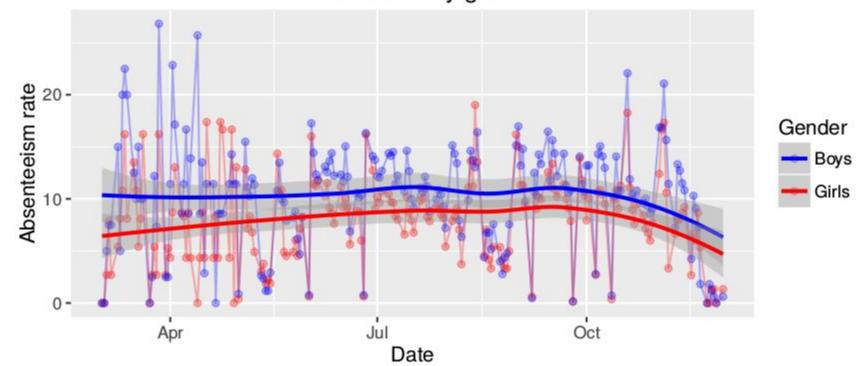
Student age and absenteeism



By gender

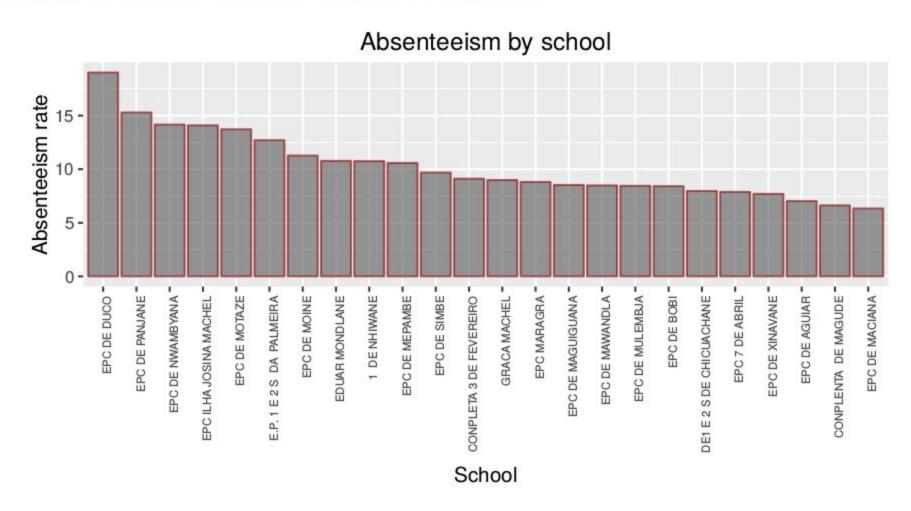
Generally speaking, females have lower absenteeism than males:

Absenteeism by gender



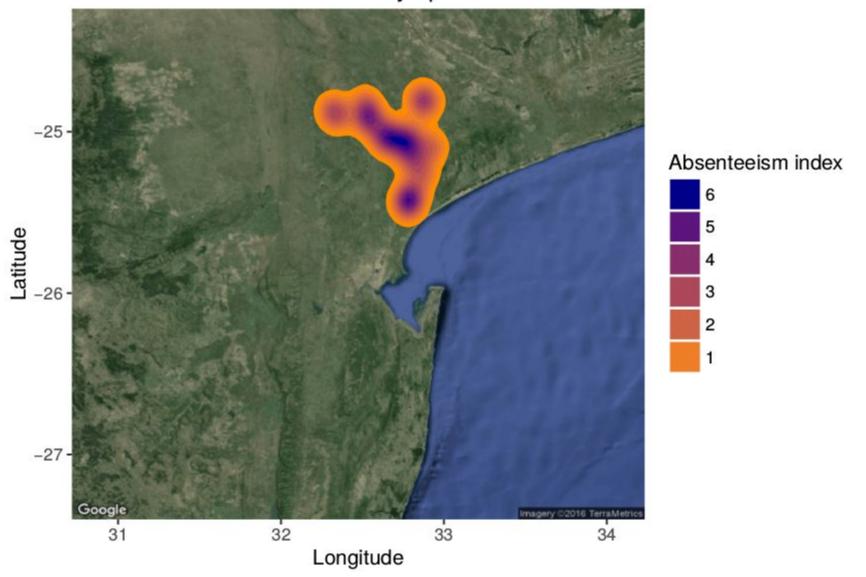
By school

There is a surprisingly high level of variation in absenteeism by school. To assess overall absenteeism, we de-aggregate on time, and examine overall absenteeism by school.



By geography



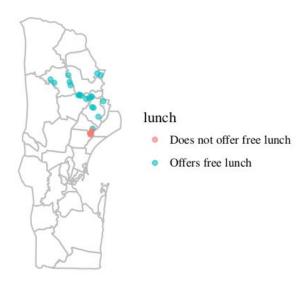


By lunch status



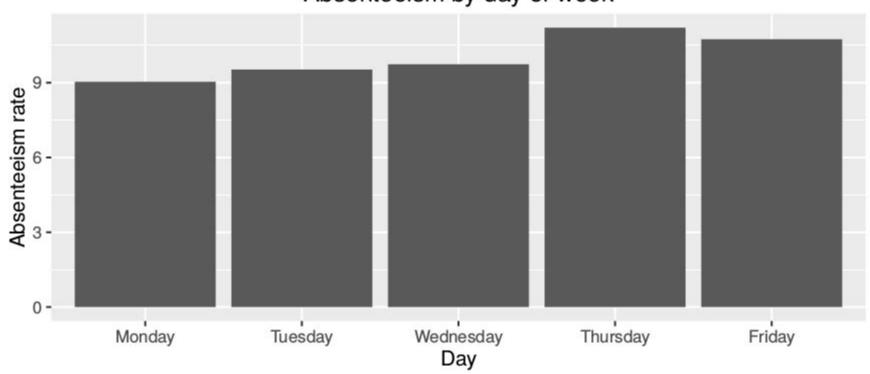


Geographically, the fews schools not offering free lunch are clustered together

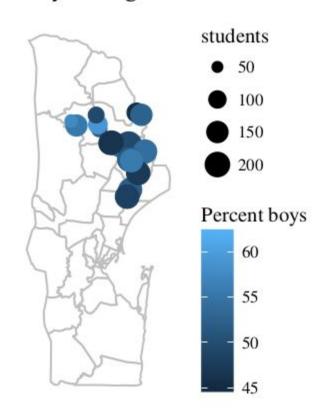


By day of the week





Geographical distribution of boys and girls



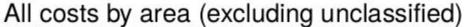
MALTEM costs overview

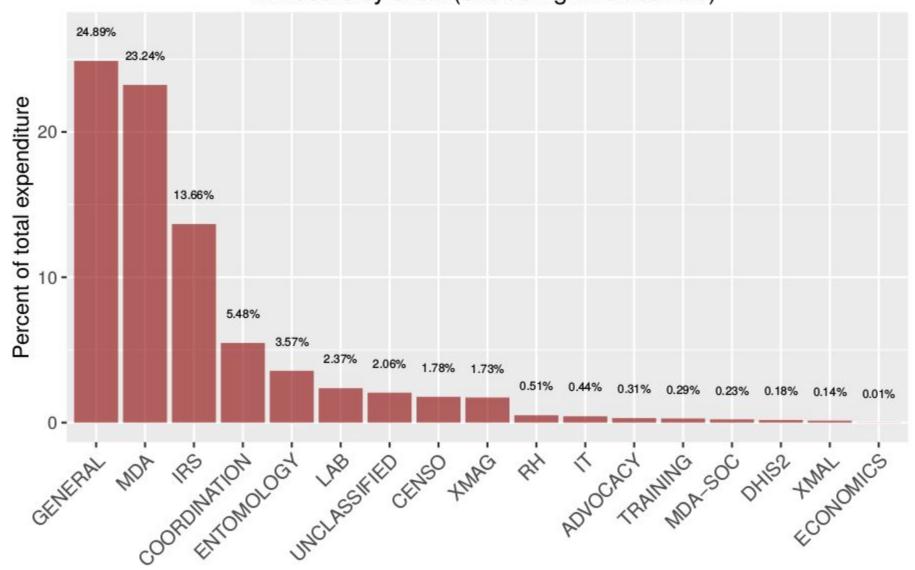
Laia Cirera Joe Brew Elisa Sicuri

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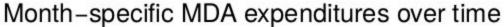
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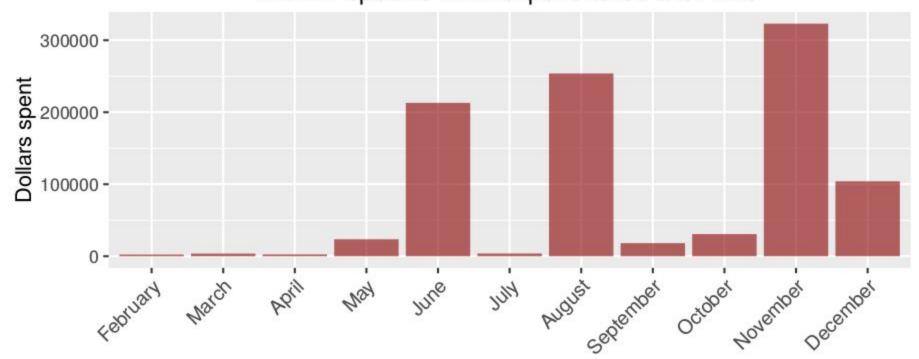
By area



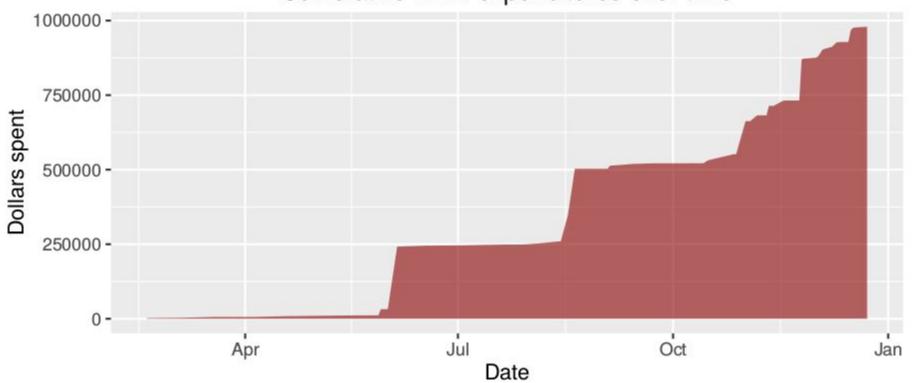


MDA expenditures over time

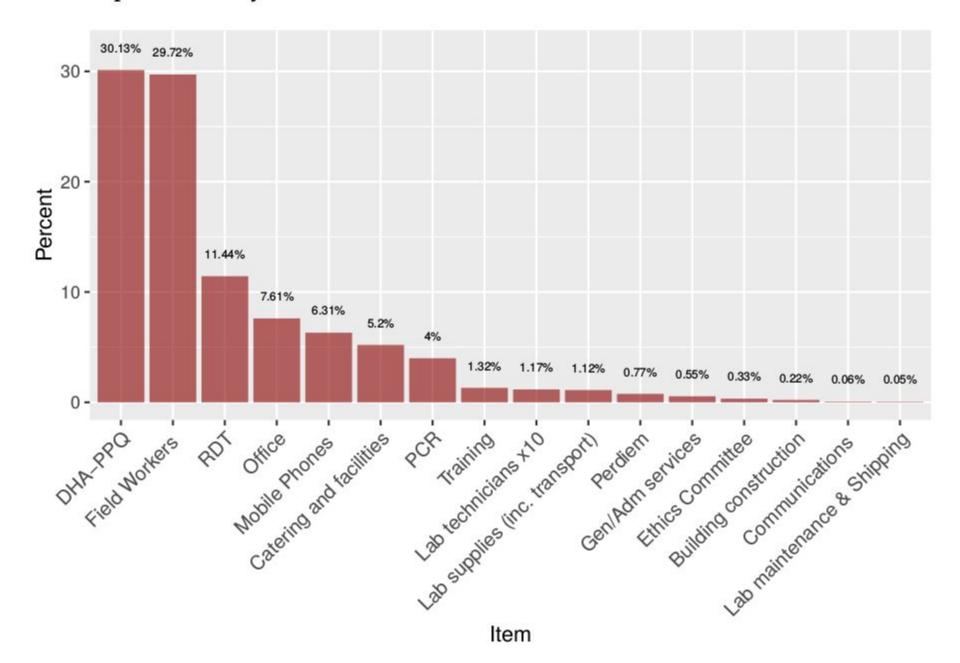




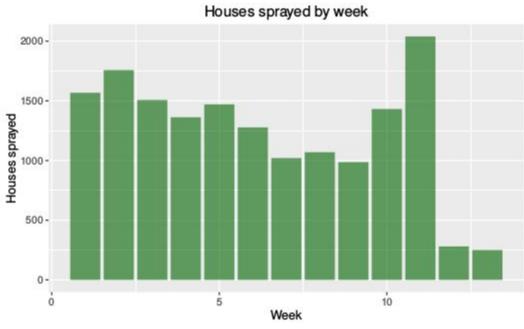


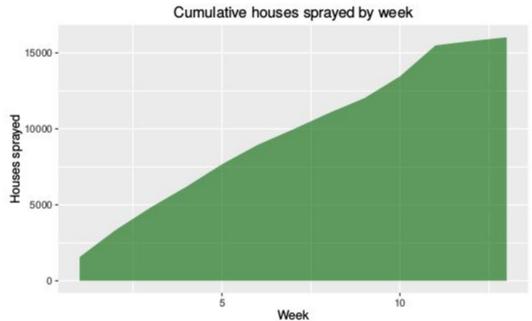


MDA expenditures by item

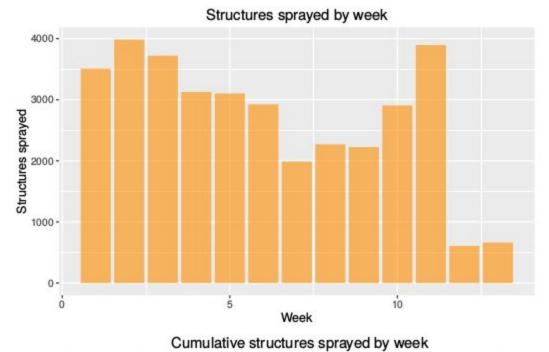


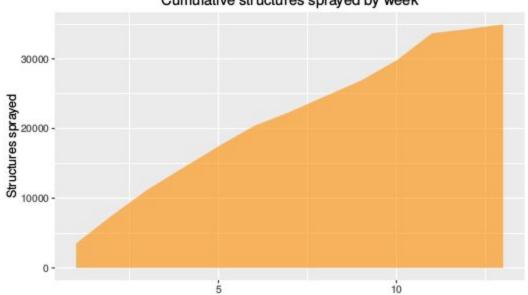
Houses sprayed





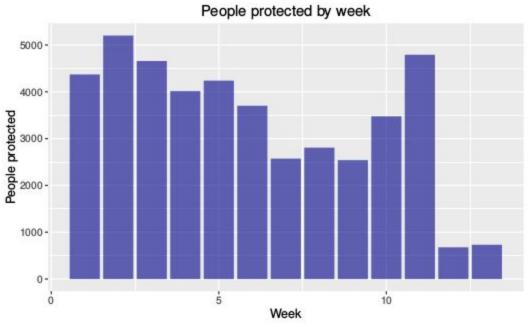
Structures sprayed

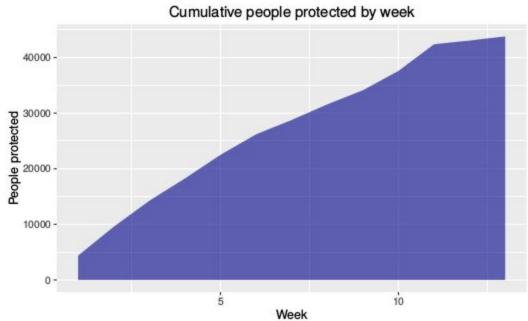




Week

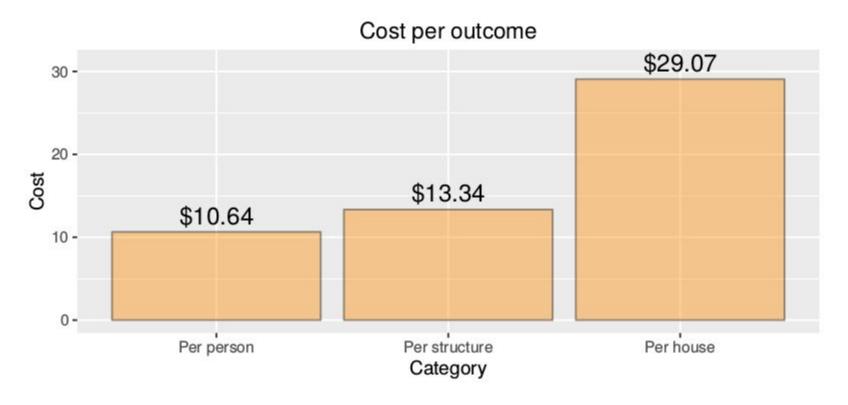
People protected





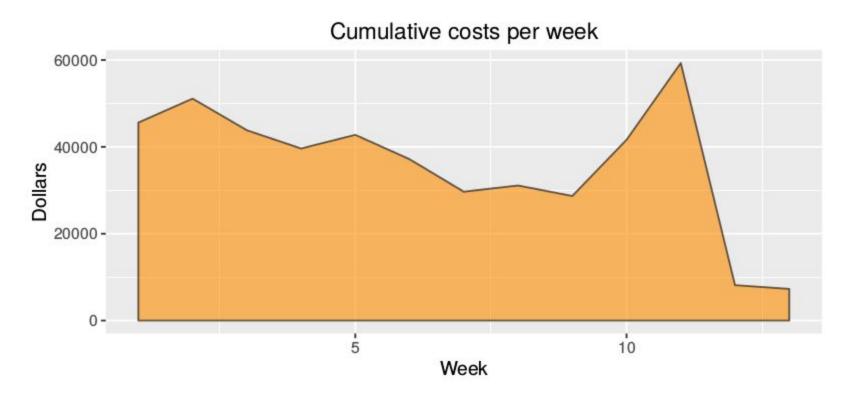
IRS costs

(Simply dividing by the total direct cost of 465999.19.)



Expenses over time

(Direct costs only, assuming fixed house cost of \$29.07.)



Xinavane data overview

Laia Cirera Joe Brew Elisa Sicuri

March 8, 2016

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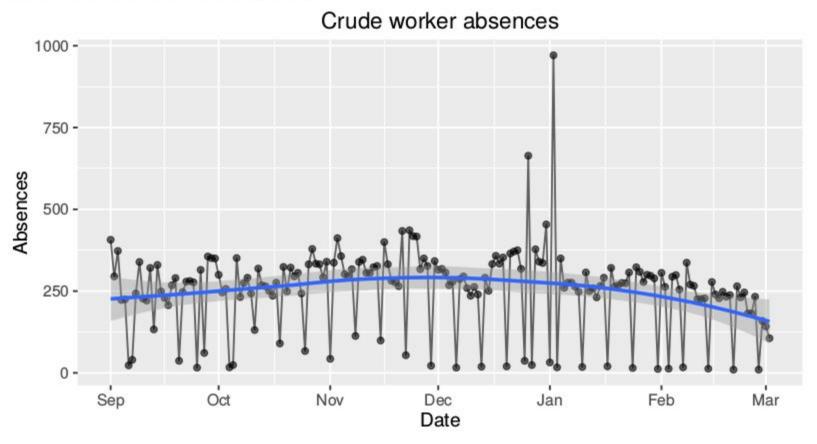
Details

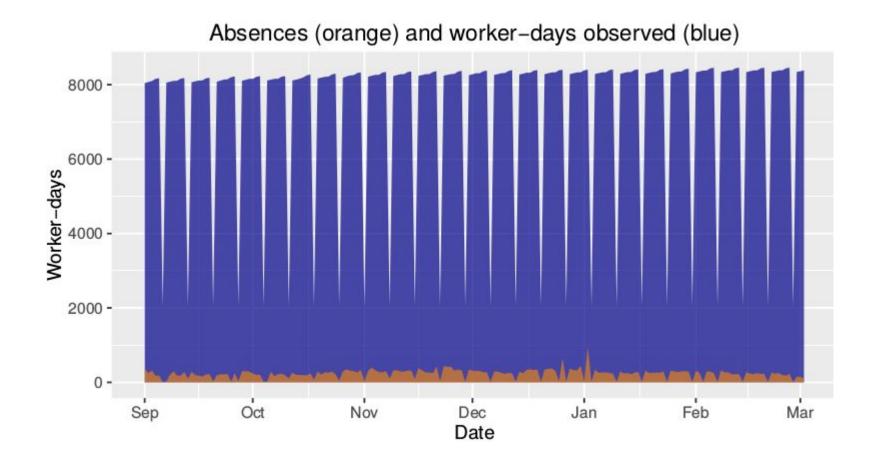
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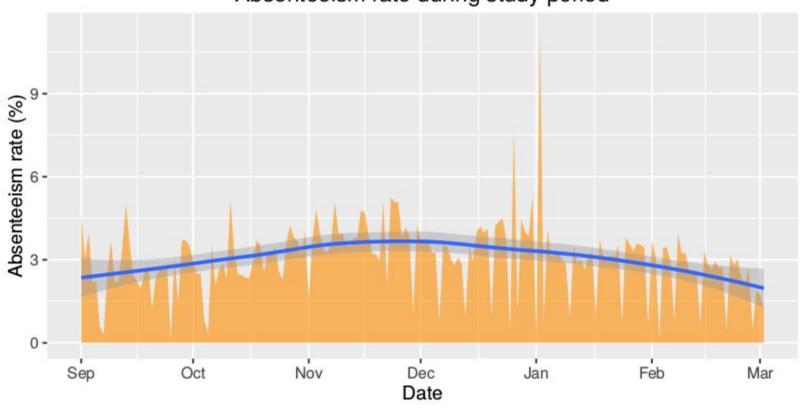
Absences

Absenteeism data spans from September 01, 2015 until March 02, 2016. On average, there are 253 absences per day. Though there appears to be some longer-term variation in the below chart, it's clear that the most important factor is weekly seasonality:



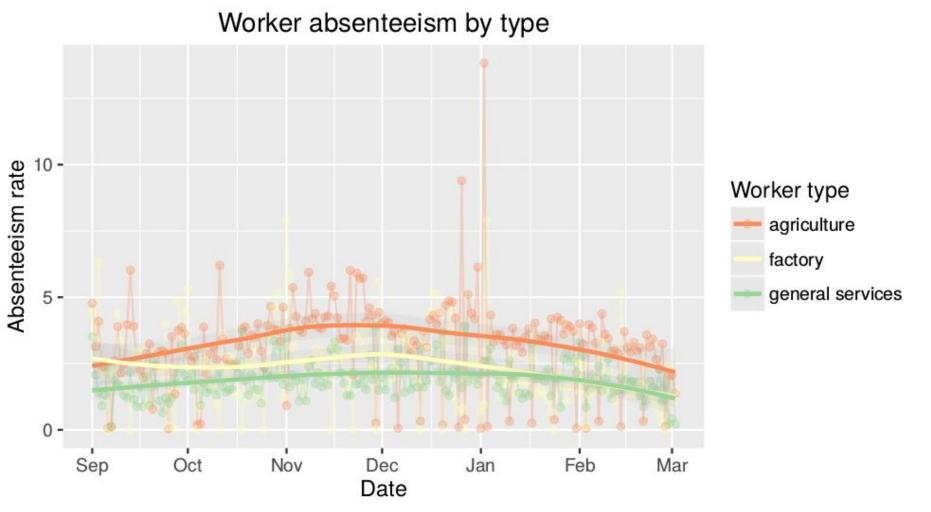


Absenteeism rate during study period

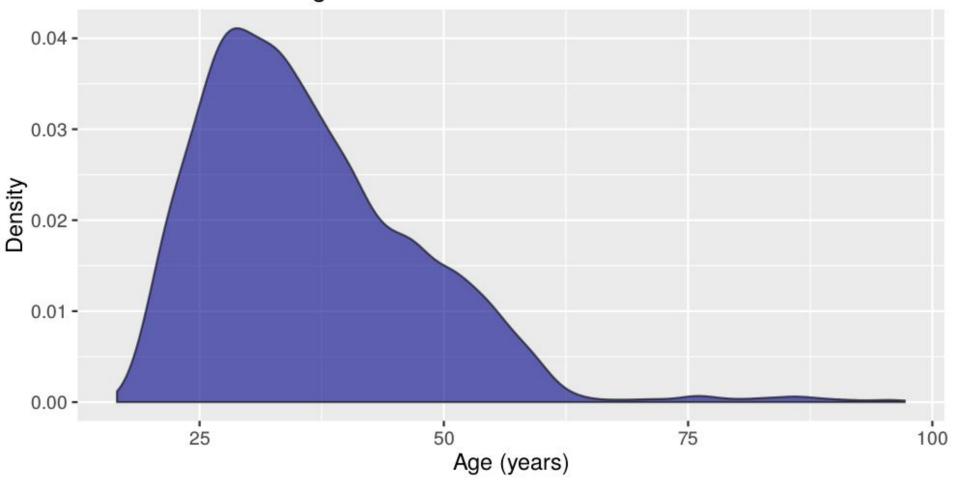


Absenteeism rate by worker type

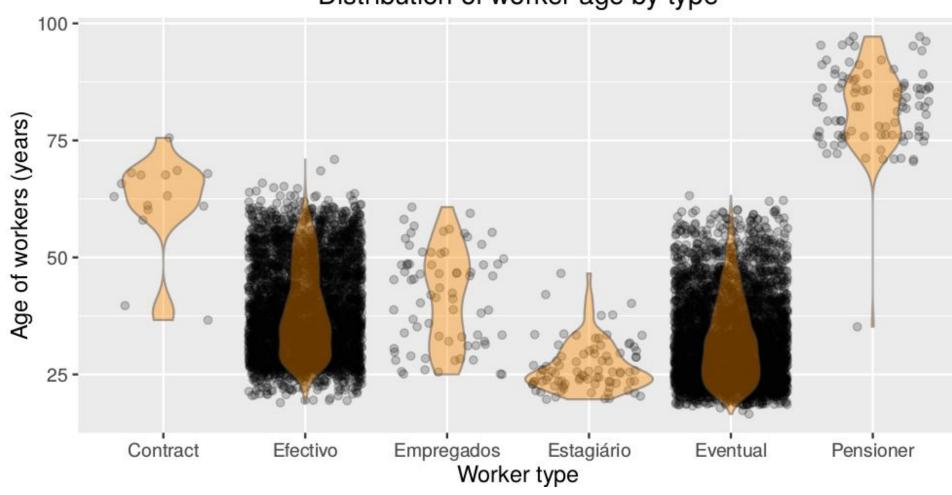
Agricultural workers have significantly higher absenteeism than those that work in the factory or in general services.



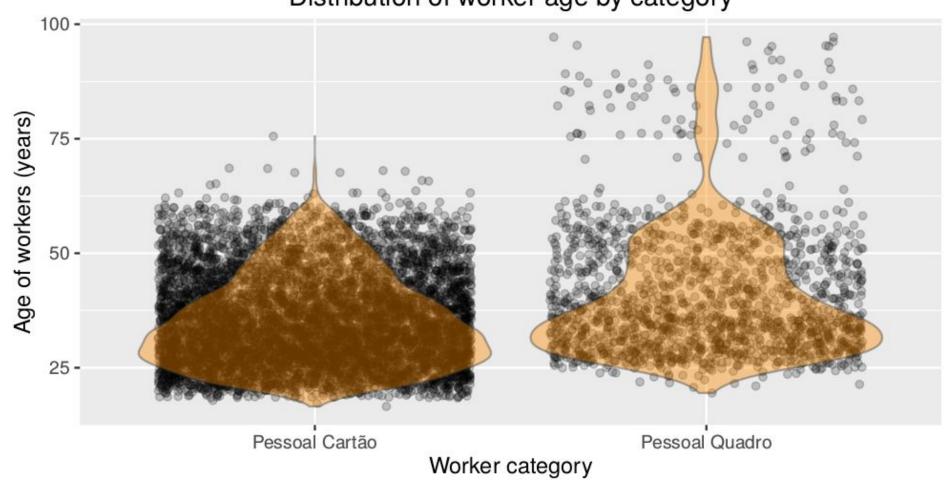
Age distribution of Xinavane workers

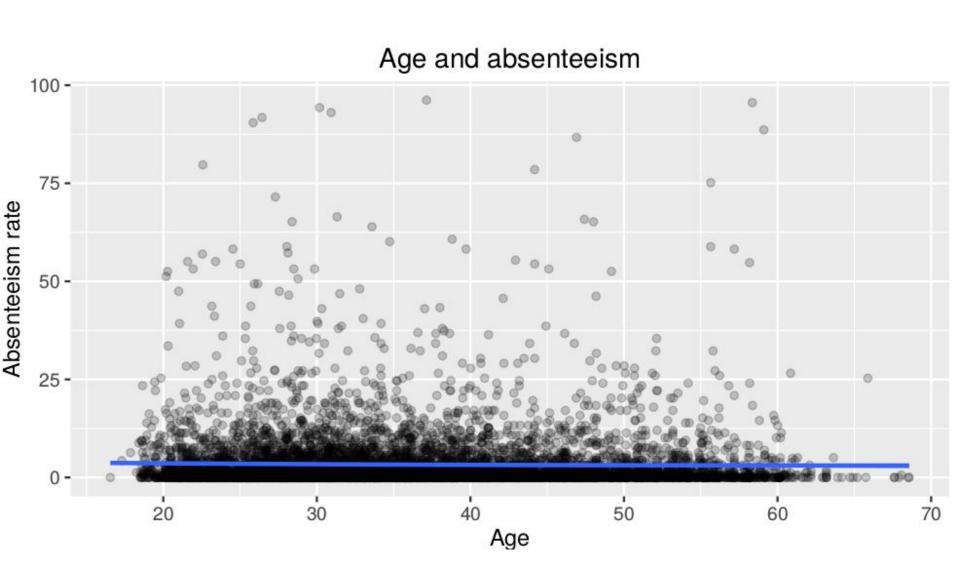


Distribution of worker age by type

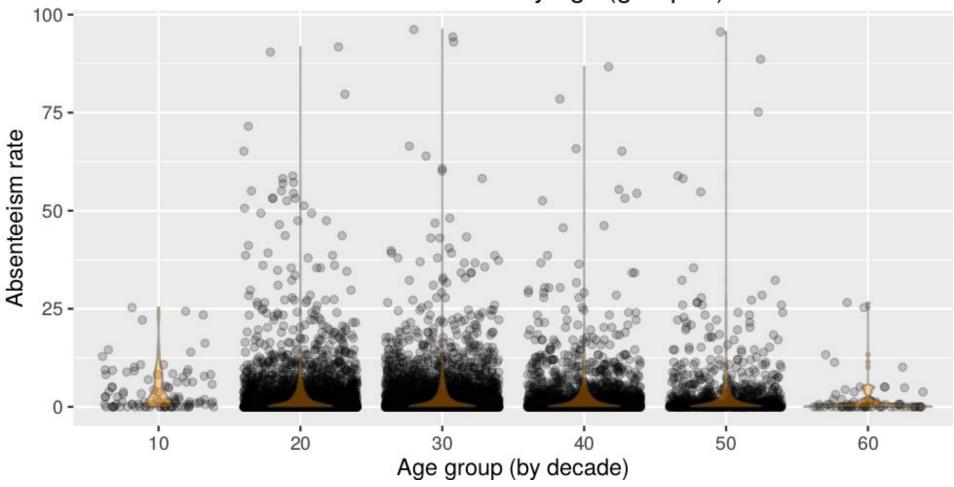


Distribution of worker age by category



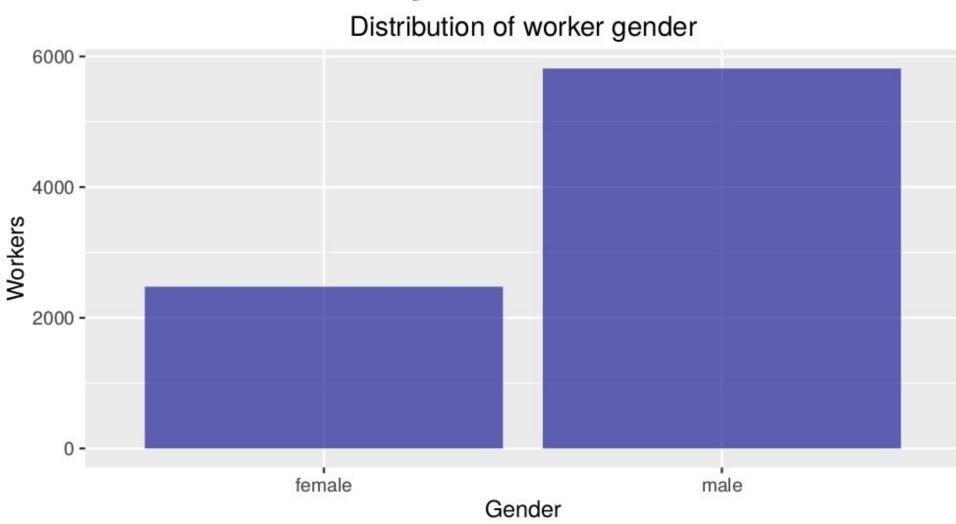


Absenteeism rate by age (grouped)

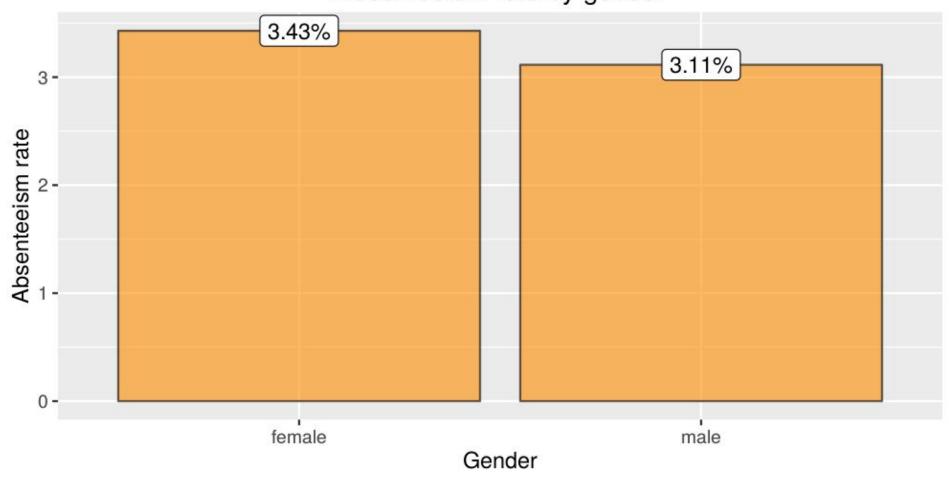


Gender

The ratio of males to females at Xinavane is greater than 2 to 1:

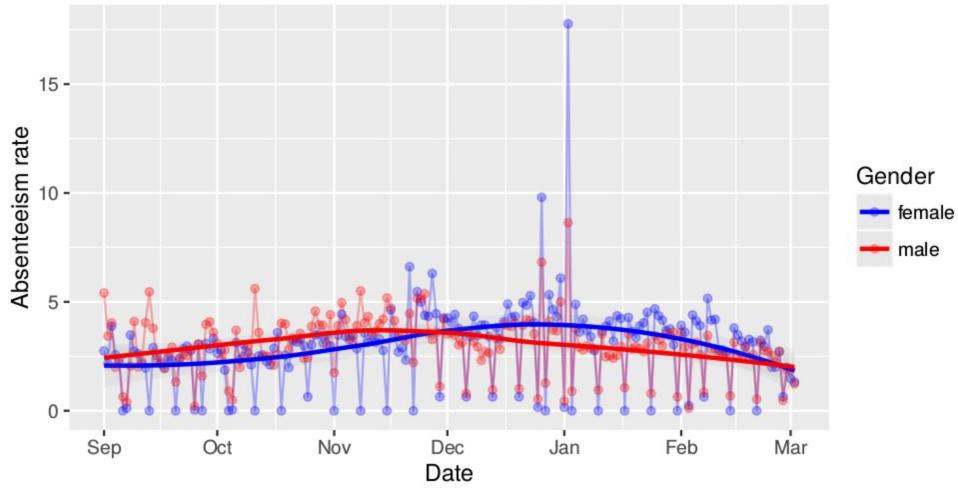


Absenteeism rate by gender



If we examine absences over time by gender, it is difficult to distinguish a trend:





Distribution of worker marital status

