

ANUAL REPORT

Transit accidents report in Valle de Aburra

Information about transit accidents during 2018 for the metropolitan area of Valle de Aburra, the features selected for this analysis were:

- X - Geographical location related to the longitude
- Y - Geographical location related to the latitude.
- FECHA - Date of the accident event.
- COMUNA - Comuna where the accident is located.

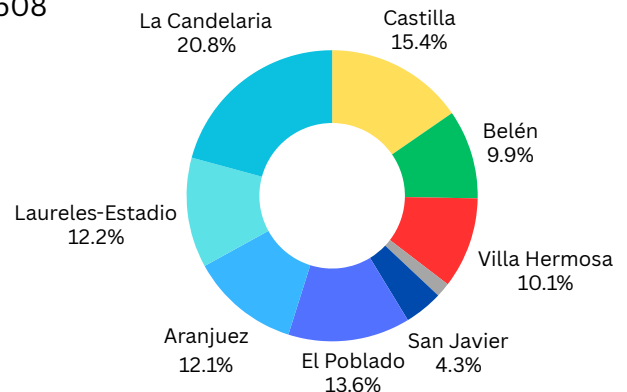
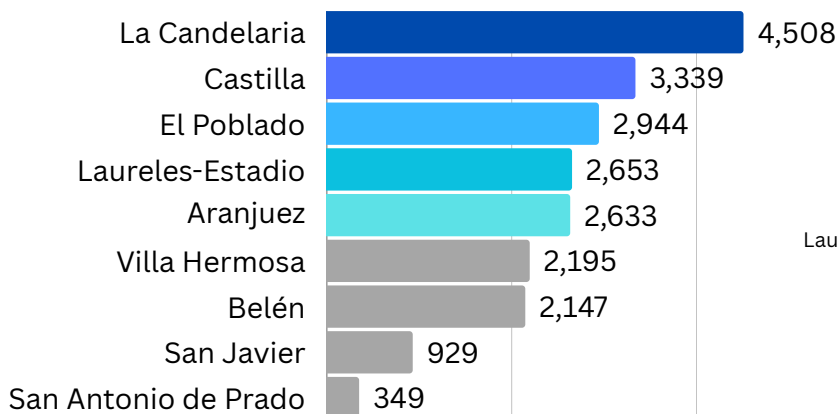


Recomendations

- The information about the time of ambulance reaction at the accident place is fundamental for the measure of ambulance location.
- The data just have register of the accidents that occurs at AM time zone, for the analysis is important have a big picture of the reality.

Main sectors with injuries

During the 2018 we had **21.859** accidents with injuries, the comunas with more injuries were:



Dangerous time zone



Most of the accidents occurs at
5 - 8 AM

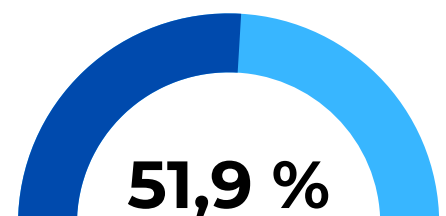
Hypothesis: 6:30 to 7:30 is the most congested time slot, so it's normal that it has more accidents.

The second time slot with more accidents is at
4 - 7 PM

The injuries coin

When someone has an accident, the probability of get an injurie is almost the same that flip a coin.

Heads = Safe
Seal = Injuries



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The most dangerous locations

The median of accidents for each location of the comunas is **2 accidents**

La candelaria

Cra. 65 #64-100

San Javier

62, Pajarito, Medellín, San Cristóbal

Poblado

Av. Palacé #30-12

Castilla

Cl. 90 # 72-153, Alfonso Lopez.

San Antonio de Prado

Cl 40B Sur #111 E-37

Laureles-Estadio

Av. 80 #62, Pilarica,

Belén

Cra 81A #4781, La Floresta

Áranjuez

Cl. 106C # 64D-8, Boyaca

Conclusions

We should allocate the ambulances and transit agents around these locations:

Priority



1. Cra. 56 # 51-53, La Candelaria, Medellín.
2. Av. los Industriales #No 14-135, El Poblado
3. Cl. 48cc #103a-36, El Socorro, Medellín.
4. Cl. 68 # 136C-29, TRAVESIAS, San Cristóbal.
5. Cra 77A # 32A-37, Medellín, Belén.
6. Cl. 54a #30-01, Medellín, Villa Hermosa.
7. Cl. 91 # 67A-49, Francisco Zea, Medellín.
8. Cl. 48 Sur # 64B-183, San Antonio de Prado.

Most of the units have to cover the time slot of:
6-8 AM and **5-7 PM**.

