

# Ailysium Covid19 Assistant How to Fly Safe?



What's your Covid19 Risk,  
Flying during Holidays,  
from different airports?

# Ailysium

## Holliday Travel 2020

Assuming each County in California has it's own airport,

- What's your Risk of Flying from that airport?
- Alternative Question: What's your Risk, given the Passengers onboard are from that specific County?

In reality, not every County has airport, to fly Boeing 737, or all the passengers are from same County. Therefore, the Risk will be Weighted-Aggregated-Conditional Risk of all the Passengers (given their County of origin) onboard.

# Traveling by Plane



Ailluminatex  
<https://www.ailluminatex.com>

## Full Flight - 100% Capacity

Traveling by Plane

### What's Your Risk Flying on a Full Flight?



Source: Boeing 737-800

# Risk Factor: Traveling by Plane



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**Full Flight  
100% Capacity**





# Risk Factor: Traveling by Plane



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<https://www.ailluminatex.com>

**Full Flight  
100% Capacity**



**All Passengers are being  
Tested Negative – PCR Test**

# Traveling by Plane



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## Flight - 67% Capacity

Traveling by Plane

### What's Your Risk Flying on a 67% Flight Capacity?



Source: Boeing 737-800

# Risk Factor: Traveling by Plane



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**Flight  
Capacity  
67%**



# Risk Factor: Traveling by Plane



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**Flight  
Capacity  
67%**



**All Passengers are being  
Tested Negative – PCR Test**



# Traveling by Plane



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## Full Flight - 33% Capacity

Traveling by Plane

### What's Your Risk Flying on a 33% Flight Capacity?



Source: Lufthansa lie-flat Economy seat concept | CNN Travel

# Risk Factor: Traveling by Plane



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**Flight  
33% Capacity**



# Risk Factor: Traveling by Plane



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**Flight  
33% Capacity**



**All Passengers are being  
Tested Negative – PCR Test**

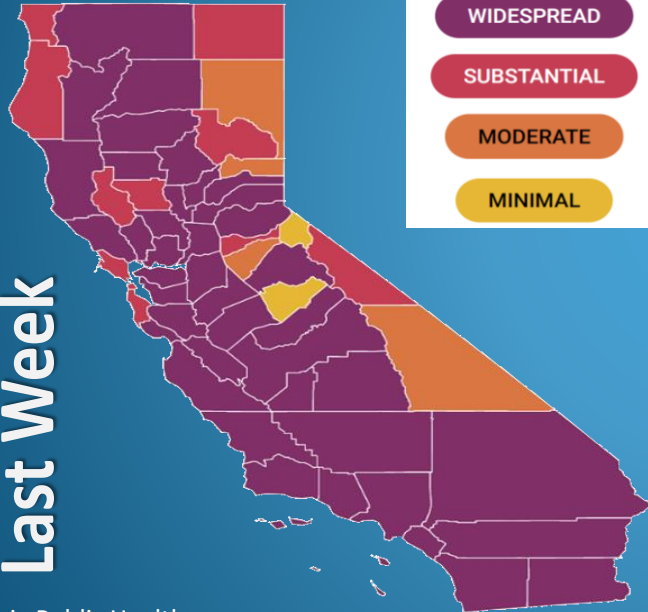
# California



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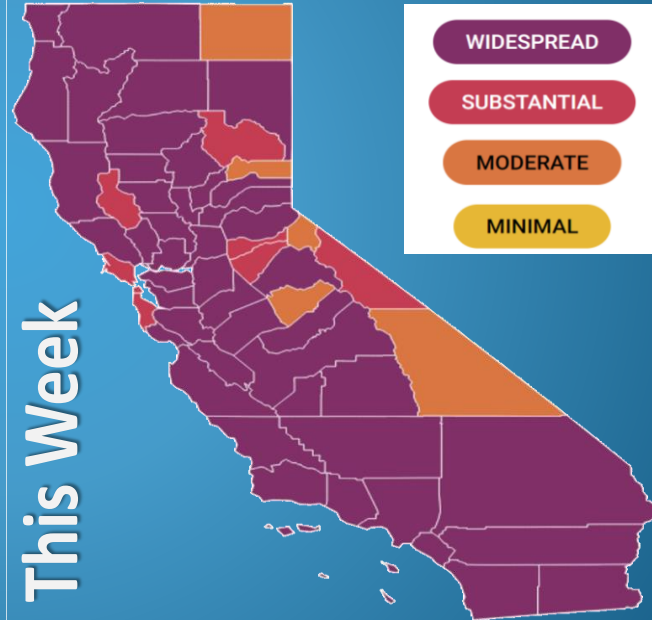
Positivity Rate: 5.2%

Last Week



Positivity Rate: 6.2%

This Week



California – Risk Tiers (11-24-2020)

Source: California Public Health

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# Insights & Informed Actionable Decisions:



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Reduce Flight Capacity (<33-67% of capacity), wear mask, & reduce touches.

Test: PCR Test, 72 hours prior to the flight

Test: Rapid Test, 24 hours prior the flight & same day at airport.

# Knowledge is Power!

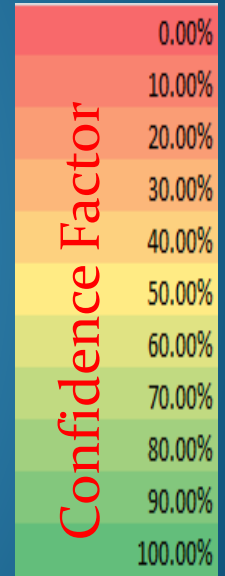
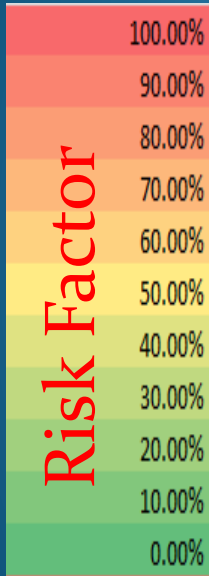


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## How it's been done?

Artificial Intelligence  
Bio-Forecasting

**Reduce Risk** →  
**Gain Confidence**



Modeling/Simulation COVID-19 Scenarios  
Computational Fluid Dynamic Simulation



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