

Description of fields in U.S Internal Flights dataset

Label in the original dataset	Modified label	Description
Year	Year	The year the month occurred
Month	Month	The month for which data was collected
Carrier	Carrier	The airline code
Carrier Name	Carrier Name	The airline name
Airport	Airport	The airport code
Airport Name	Airport Name	The airport name
Arr flights	Arrived flights	# of flights that arrived at the airport
Arr del15	Arrived Del15	# of flights that arrived ≥ 15 minutes late
Carrier Ct	Carrier Count	# of flights delayed due to the carrier
Weather Ct	Weather Count	# of flights delayed due to weather
Nas Ct	Nas Count	# of flights delayed due to national air
Security Ct	Security Count	# of flights delayed due to security
Late Aircraft Ct	Late Aircraft Count	# flights delayed because a previous flight using the same aircraft was late
Arr Cancelled	Arrived Cancelled	# of cancelled arrivals
Arr Diverted	Arrived Diverted	# of scheduled arrivals that were diverted
Arr Delay	Arrived Del15 minutes	Sum of the delay minutes
Carrier Delay	Carrier minutes	Total minutes of delays due to carriers
Weather Delay	Weather minutes	Total minutes of delays due to weather
Nas Delay	Nas minutes	Total minutes of delays due to natl. air service
Security Delay	Security minutes	Total minutes of delays due to security
Late Aircraft Delay	Late Aircraft minutes	Similar to late aircraft ct. The total minutes of delay due to a previous flight using the same aircraft arriving late.

Calculated fields	Description	Formulation
arrived Del15%	Prportion of flights that arrived ≥ 15 minutes late	$\text{Arrived Del15} \% * 100 / \text{arrived flight}$
Carrier %	Prportion of flights delayed due to the carrier	$\text{Carrier Count} * 100 / \text{Arrived Del15}$
Weather %	Prportion of flights delayed due to weather	$\text{Weather Count} * 100 / \text{Arrived Del15}$
Nas %	Prportion of flights delayed due to nati. air	$\text{Nas Count} * 100 / \text{Arrived Del15}$
Security %	Prportion of flights delayed due to security	$\text{Security Count} * 100 / \text{Arrived Del15}$

Late Aircraft %	Prportion flights delayed because a previous flight using the same aircraft was late	Late Aircraft Count *100/ Arrived Del15
Arrived Cancelled %	Prportion of canceled arrivals	Arrived Cancelled *100/ Arrived Del15
Arrived Diverted %	Prportion of scheduled arrivals that were diverted	Arrived Diverted *100/ Arrived Del15
Arrived Del15 minutes avg	Average of the delay minutes	(sum of the delay minutes/ Arrived Del15)
Carrier minutes avg	Average minutes of delays due to carriers	(Total minutes of delays due to carriers / Arrived Del15)
Weather minutes avg	Average minutes of delays due to weather	(Total minutes of delays due to weather / Arrived Del15)
Nas minutes avg	Average minutes of delays due to natl. air service	(Total minutes of delays due to Nas / Arrived Del15)
Security minutes avg	Average minutes of delays due to security	(Total minutes of delays due to security / Arrived Del15)
late Aircraft minutes avg	The average minutes of delay due to a previous flight using the same aircraft arriving late	Total minutes of delays due to late aircraft / Arrived Del15
Flight Density	Proportion of arrived flight from a carrier or at airport	Sum(Arrived Flight)/ Total(Arrived Flight)
Binsize	A constant parameter	
Average Delay Bins	To customize bins histogram as: [limit1 -limit2]	"[" + str(INT([Arrived Del15 minutes Avg]/[Binsize]))*[Binsize]+ "-"+ str(INT([Arrived Del15 minutes Avg]/[Binzise]))*[Binsize]+[Binsize]-1) +"]"

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