Workshop on Runway Safety Team (RST)



Runway Safety Programme - Brazil



Topics

Standards that regulate runway safety

The ANAC Runway Safety website

Guidance material for Runway Safety

Statistics of Runway Excursion and Incursion in Brazil



The Topics

1) **Decree nº 6.780** dated 18/02/2009, establishes the *National Civil Aviation Policy*.

PNAC Objective: The permanent objective that guides and improves the actions of civil aviation is safety, which is, therefore, a prerequisite for the operation of the sector.

2) **SSP** (PSOE-ANAC)

Art. 3°. The PSOE-ANAC also establishes the guidelines for the Brazilian civil aviation industry, regarding safety, in line with the National Civil Aviation Policy (PNAC).

3) **RBAC 153**

- 153.105 Aeronautical information
- 153.107 Operational area protection
- 153.109 Surface Movement Guidance and Control Systems (SMGCS)
- 153.111 Movement of aircraft, vehicles, equipment and persons in the operational area
- 153.113 Access and permanence in the movement area
- 153.115 Runway incursion prevention
- 153.131 Low visibility operations



Guidance material for runway safety

ANAC Runway Safety website

Runway Safety Team - RST	
Runway Incursion	
Runway Excursion	
Runway Confusion	
Global Reporting Format (GRF)	
Declared distances	
Hot Spots	
RST Implementation Pilot Project	
Aerodromes and Meteorology	

https://www.gov.br/anac/pt-br/assuntos/regulados/aerodromos/seguranca-operacional/runway-safety/runway-safety



Guidance material for runway safety – Download

1) Runway Incursion Prevention

Runway Incursion Prevention Handbook

Operational model agreement for runway incursion prevention

Runway Incursion Severity Calculator - RISC

Runway Incursion Prevention Level Evaluation Questionnaire

Guidance for the Registry and Analysis of Runway Incursion Occurrences

Evaluation Questionnaire of the movement area access training

Questionnaire for the identification and mitigation of Hot Spots



Guidance material for runway safety – *Download*

2) RST Implementation

Runway Safety Team Handbook

Manual del Runway Safety Team

Model statute for RST

RST Implementation – Study case (ANAC website)

https://www.gov.br/anac/pt-br/assuntos/regulados/aerodromos/seguranca-operacional/runway-safety/projeto-piloto-sbbr

How to prepare the RST Action Plan

RST Audit – Questionnaire



Guidance material for runway safety: Action Plan

3) Steps to prepare the RST Action Plan

Survey with pilots operating at the airport

Evaluation of the training of the personnel with Access to the airport movement area

Visit to Control Tower (blind spots and other needs)

Meeting with the TWR controller

Study of the current actions of the airport operator in the runway safety area



Statistical data of Civil Aviation events in Brazil

9/05/2023 GTSA/GOPS/SI



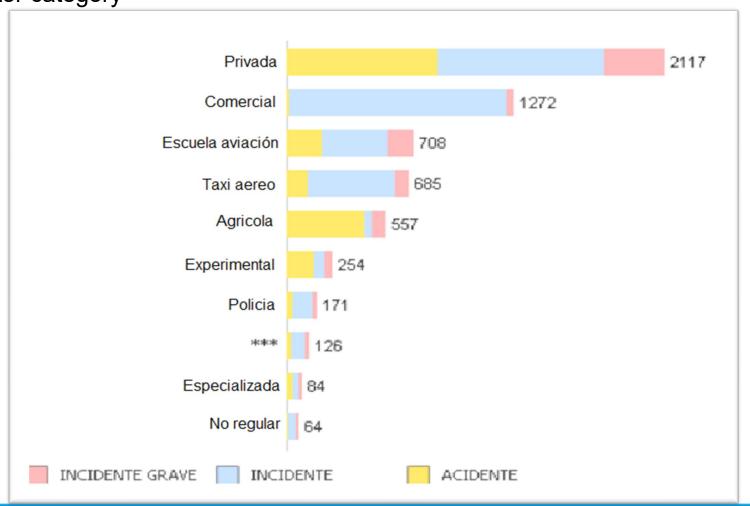
Civil aviation accidents – 10 years





Civil aviation accidents – 10 years

By operator category





Civil aviation accidents – 10 years

Fatalidades

Aeronaves Destruídas

Com Saída de Pista

Relatórios Publicados

Recomendações Emitidas

844

321

574

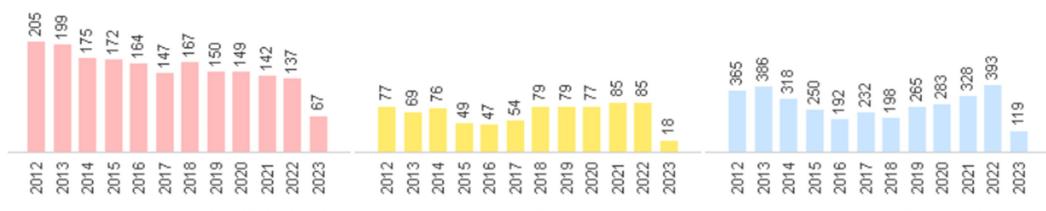
1624

1441



Incidentes Graves

Incidentes



<u>~</u>

Total: 1874 acidentes Aviões: 1359 acidentes

Helicópteros: 213 acidentes

Outros: 306 acidentes

Total: 795 incidentes graves

Aviões: 662 incidentes graves

Helicópteros: 66 incidentes graves

Outros: 77 incidentes graves

Total: 3329 incidentes

Aviões: 2816 incidentes

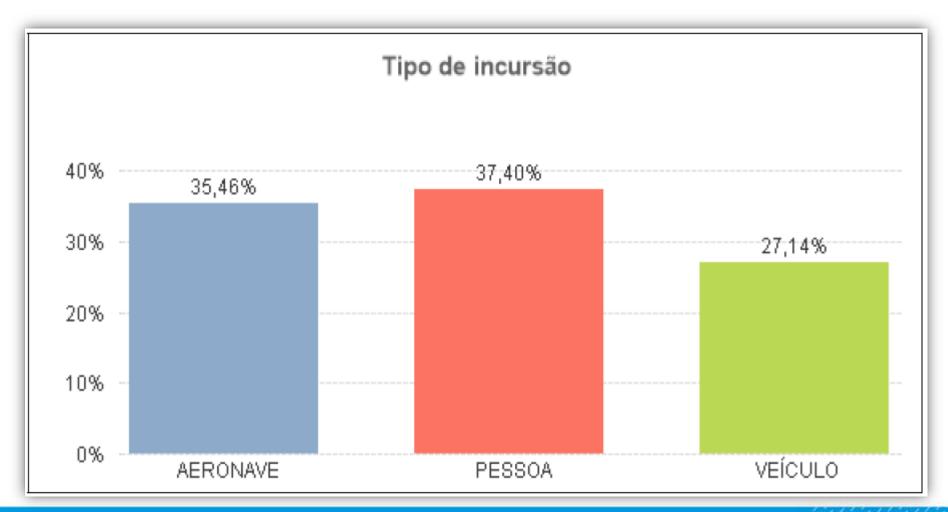
Helicópteros: 351 incidentes

Outros: 169 incidentes



Runway Incursion Statistics: Brazil

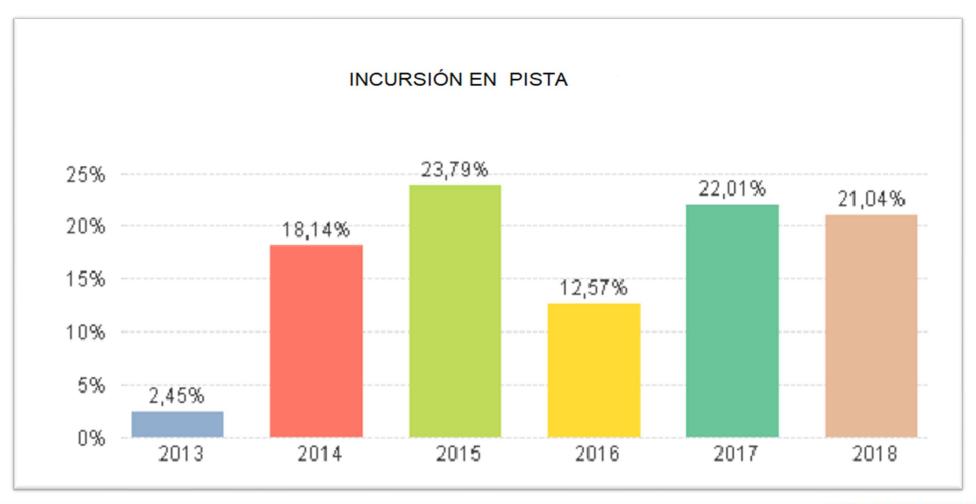
By cause group: 2013 - 2018





Runway INCURSION Statistics

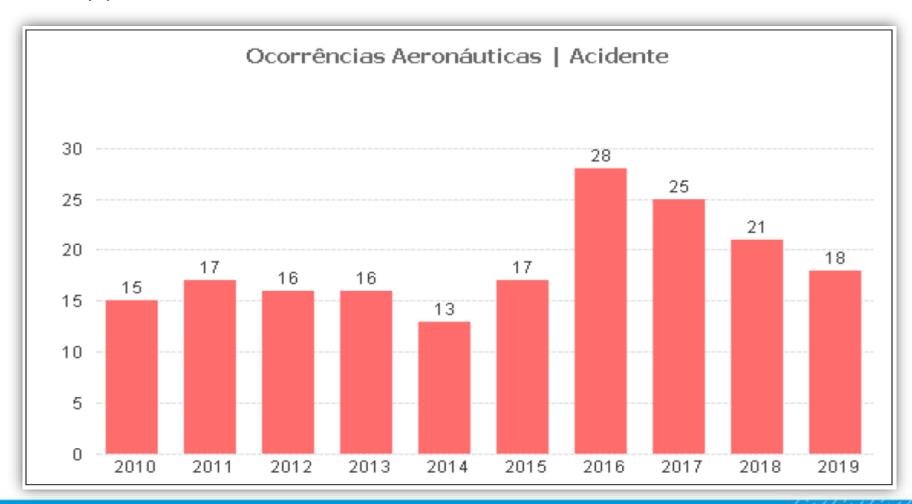
By year: 2013 - 2018





Runway Excursion Statistics

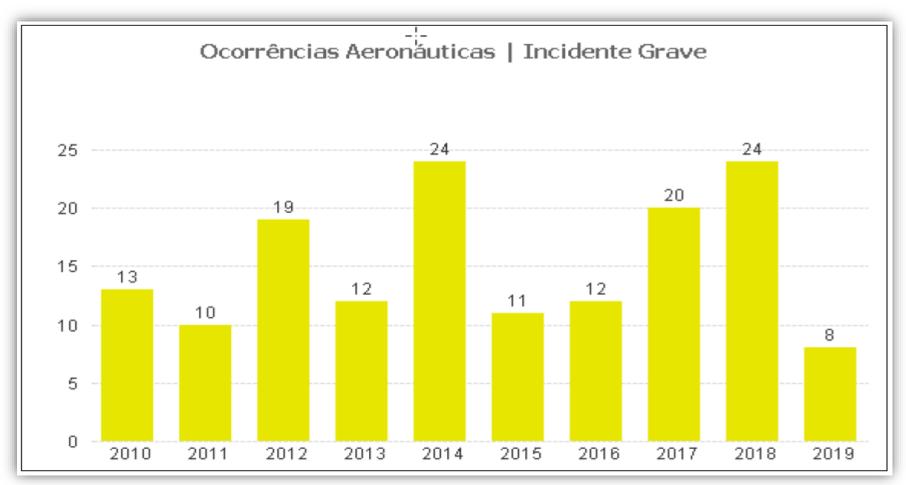
Distribution by year: 2010 - 2019





Runway Excursions Statistics

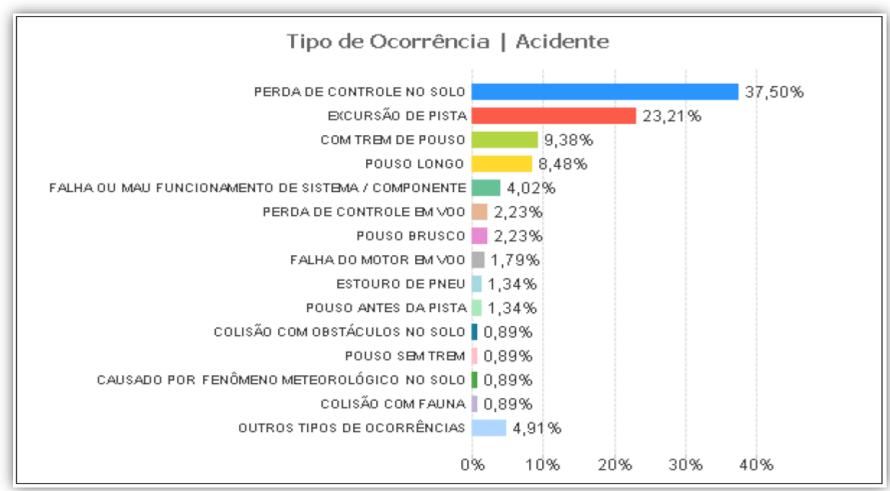
Distribution by year: incidents





Runway Excursion Statistics

By occurance type: accidents

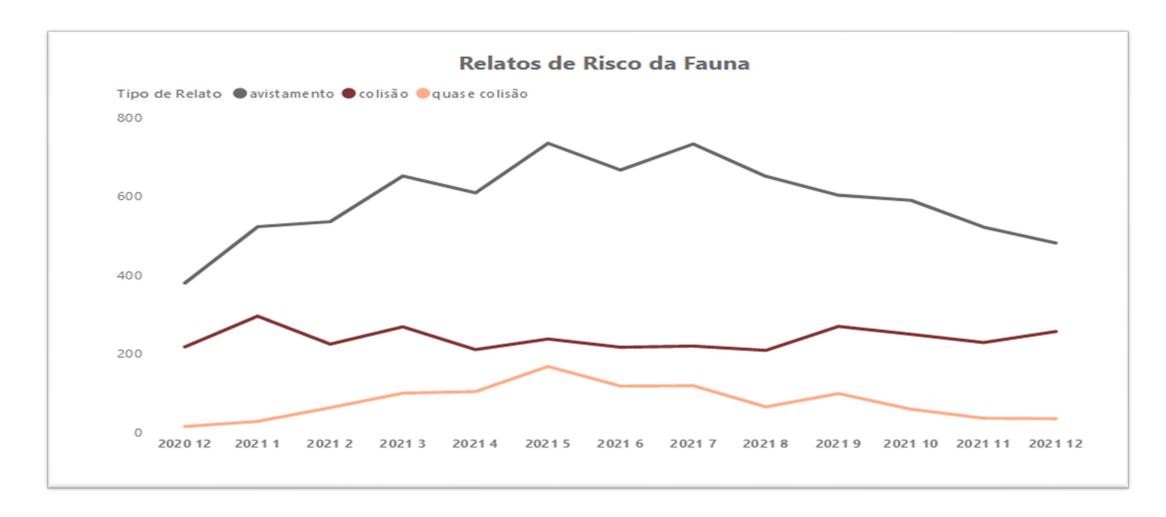


REGIAO 3,17 Mi 636 UF TIPO **OPERAÇÃO** Todos \vee 01/02/2022 28/02/2023 Todos Todos Todos Total de Horas Voadas Ocorrências no periodo \vee CLASSIFICACAO Classificação ADREP Todos * As decolagens não são filtradas. Ocorrências com e sem Fatalidades ∇ 63 ---SCF-NP - FALHA OU MAU FUNCIONAMENTO DE ... 40.09% 16.04% SCF-PP - FALHA OU MAU FUNCIONAMENTO DO ... ■ AcidentesSem Fatalidades ■ Acidentes Fatalidades ■ Fatalidades Totals ■ Total de Horas Voadas RE - EXCURSÃO DE PISTA 9,43% 270 Mil LOC-G - PERDA DE CONTROLE NO SOLO 6,76% BIRD - COLISÃO COM AVE 6,60% LALT - OPERAÇÃO A BAIXA ALTITUDE 4,72% 260 Mil LOC-I - PERDA DE CONTROLE EM VOO 4,56% 258 Mil. OTHR - OUTROS 4,25% ARC - CONTATO ANORMAL COM A PISTA 3,30% 250 Mil 252 Mil ∘252 Mil UNK - IN DETERMINADA 2,83% 247 Mil RI - INCURSÃO EM PISTA 2.52% 245 Mi CTOL - COLISÃO COM OBSTÁCULO DURANTE A D... 2,36% 240 Mil ATM/CNS - GERENCIAMENTO DE TRÁFEGO AÉRE... 1,26% 61 238 Mil GCOL - COLISÃO NO SOLO 1,26% 54 51 50 48 ADRM - AERÓDROMO 46 230 Mil 1,10% 41 F-NI - FOGO/FUMAÇA 1,10% 228 Mi 37 32 226 Mil CFIT - VOO CONTROLADO CONTRA O TERRENO 0.63% 220 Mil FUEL - COMBUSTÍVEL 0,63% RAMP - OPERAÇÕES NO SOLO 0,63% WSTRW - CORTANTE DE VENTO / TEM PESTADE 0,63% 210 Mil EXTL - COM CARGAS EXTERNAS 0,47% 2022 2023 1 2023 2 2022 2 2022 3 2022 4 2022 5 2022 6 2022 7 2022 8 2022 9 2022 2022 10 0% 20% 40% 11 12

https://sistemas.anac.gov.br/relatorios/powerbi/ASSOP/01%20Extrato%20RMSO



Wildlife Risk Statistics







Thank you

lazaro.neves@anac.gov.br