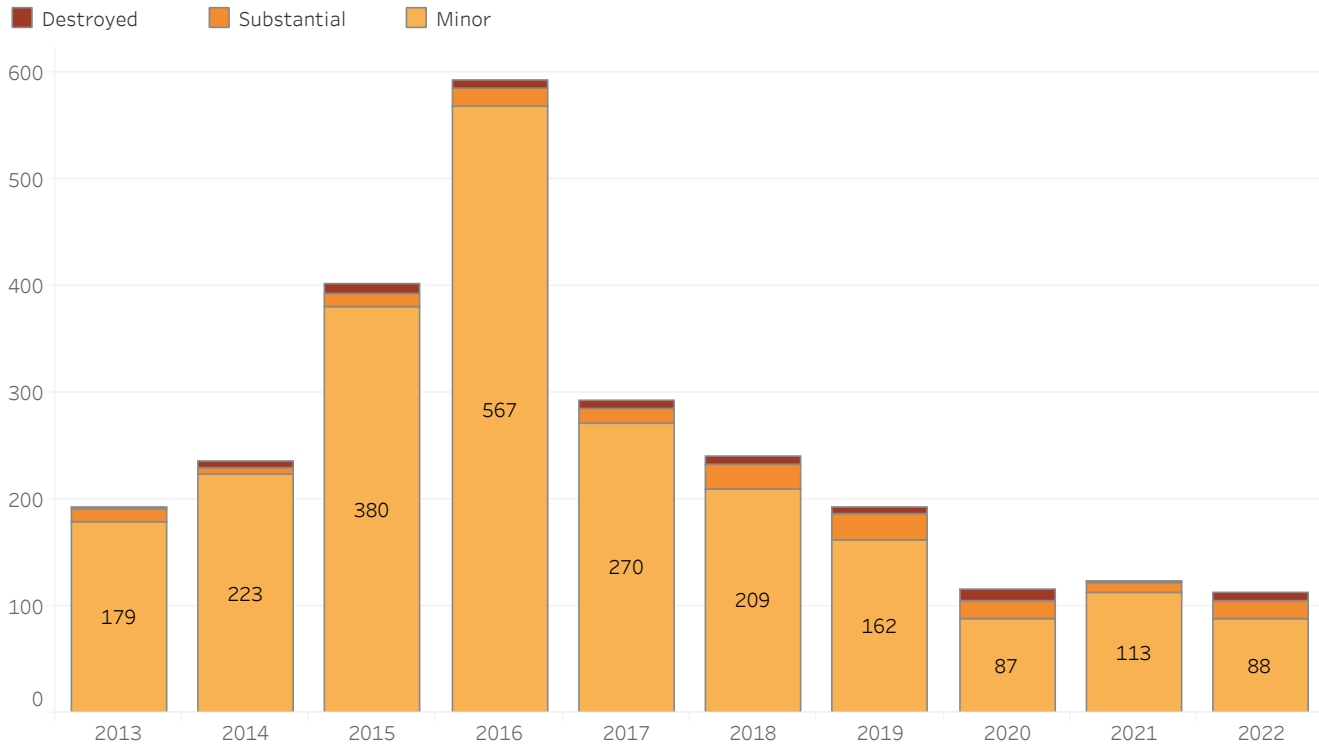


Aircraft damage

22.09.2023

All damages to all aircraft due to all reasons



Location 20 top

Number of damaged aircraft pr.aerodrome

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Sum
Oslo/Gardermoen	40	35	77	147	54	23	22	19	12	11	440
Stockholm/Arlanda	10	26	49	63	27	15	13	6	4		213
Kobenhavn/Kastrup	6	18	25	58	21	14	11	4	8		165
Stavanger/Sola	7	11	16	22	9	13	7	4	8	5	102
Bergen/Flesland	7	9	11	20	11	9	4	5	3	6	85
Trondheim/Vaernes	3	2	7	10	11	6	4	2	5	5	55
Tromso/Langnes	2	9	7	9	9	3	3	2	5	6	55
Bodo	3	4	5	11	6	4	6	3	5	5	52
Torp	5	2	2	2	3	5	5	12	7	5	48
Barcelona		2	11	6	2	6	6				33
Kjeller	1	3	5	3	3	6	3	1	1	6	32
London/Gatwick		3	4	7	9	1	1	4		2	31
Alesund/Vigra	1	3	4	11	1	1	6	2		1	30
London/Heathrow	1	4	4	6	3	1	1	1			21
Paris Charles-De-Gaulle	1			5	3	2	7	2			20
Notodden	1	1	1	2	2	2	4	2	4	1	20
Kristiansand/Kjevik		1	3	11		2	1			1	19
Göteborg/Landvetter	3	1	6	6	3						19
Helsinki-Vantaa			9	5	2	2					18
Luleå/Kallax			2	10	2	1		1			16

Airborne events - top 20

Lightning Strike	89
Birdstrike	51
Lightning Strike Damage	33
Aircraft Return	31
Birdstrike or Wildlife Strike Damage	17
Mayday Call	17
Collision Damage	16
Forced Landing	16
Turbulence Encounter	15
Precautionary Landing	14
Aircraft Crash/Impact Damage	13
Loose/Shed Aircraft Structure/Component Damage	12
Diversion - Technical Reasons	11
Collision with Level Terrain	10
Collision with Tree/Tall Vegetation	8
Electrical Static Discharge	7
Landing - Hard	7
Missed Approach	7
Collision with Cable/Wire	6
Smoke - Cockpit	6

Ground events - top 20

Collision - Vehicle with Parked Aircraft	524
Collision Damage	382
Take-off-with Previous Damage	107
Flight Delay	54
FOD Damage	50
Landing - Hard	48
Runway Side Excursion	44
Birdstrike	40
Aircraft Return	39
Loose/Shed Aircraft Structure/Component Damage	38
Flight Cancellation	34
3244 Landing Gear Tyres	24
Tail Strike/Over Rotation	24
Aerodrome FOD Control	23
Aircraft Change	22
Cargo Loading/Unloading	21
Ground Collision with Other Ground Object	20
Landing - Bounced	19
Aircraft Crash/Impact Damage	17
Ground Collision with Lighting	17

Top 20 Aircraft damage by aircraft model

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Sum
737	BOEING	101	122	273	419	137	85	55	26	13	15	1,246
787	BOEING		5	20	44	37	31	35	9			181
DHC8	DE HAVILLAND	18	6	12	17	12	7	10	10	10	6	108
A330	AIRBUS	7	21	14	40	7	5	4	3	6	1	108
A320	AIRBUS	2	3	2	5	10	9	12	5	18	6	72
AS350	AEROSPATIALE	5	3	6	7	7	7	9	8	6	13	71
A340	AIRBUS	2	16	8	13	3	4	1				47
S92	SIKORSKY	5	5	1	2	1	9	2	2	9	7	43
A321	AIRBUS	4	7	6	3	7	5	3	1		1	37
172	CESSNA	2	2	2	1	2	7	3	4	6	6	35
PA28	PIPER	2	2	4	1	4	2	6	1	4	1	27
DA40	DIAMOND					3	2	2	6	7	7	27
200	BEECH	1	7	3	1	2	3	1	3	1	2	24
R44	ROBINSON	2	2	1	1	2	1	5	2	2	1	19
Not mapped	OTHER		3	2	2	2	4	3		2		18
182	CESSNA				1	5	4	3			2	15
F172	CESSNA	1			1	4	3	2		3		14
EC135	EUROCOPTER	1	3	3	2	1	2	2				14
A319	AIRBUS	1	2		1	3	4		1		1	13
AS332	AEROSPATIALE	1	1			2	2		2	2		10

Aircraft damage by occurrence category

An occurrence can have one or several categories

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
RAMP: Ground Handling	60	105	242	458	146	90	45	13	18	18
SCF-NP: System/component failure or malfunction [non-powerplant]	34	16	36	44	52	45	44	22	48	32
OTHR: Other	32	31	29	31	25	22	29	19	16	12
WSTRW: Windshear or thunderstorm	13	21	27	6	19	21	16	12	5	6
SCF-PP: powerplant failure or malfunction	14	8	11	11	18	17	13	14	12	11
BIRD: Birdstrike	13	21	24	14	11	10	11	5	6	9
ARC: Abnormal runway contact	6	8	8	11	9	14	17	17	14	6
GCOL: Ground Collision	4	10	3	4	6	8	10	7	5	7
ADRM: Aerodrome	5	6	11	10	4	5	7	2	2	5
LOC-G: Loss of control - ground	3	4	8	4	8	2	8	8	6	4
LOC-I: Loss of control - inflight	2	2	10	3	4	9	4	8	5	2
RE: Runway excursion	7	5	4	2	4	7	8	2	6	4
F-NI: Fire/smoke (non-impact)	5	3	3		6	9	7	5	5	3
CTOL: Collision with obstacle(s) during take-off and landing	5	3		2	4	2	8	4	2	2
TURB: Turbulence encounter	1	4	1	1	3	10	6	1	3	2
ATM: ATM/CNS		3	2	1		1	6		5	1
CFIT: Controlled flight into or toward terrain	1	2		1	3	3	3	2	3	
NAV: Navigation error					4	5	4		1	4
EXTL: External load related occurrences	1			1	2	4		2	1	1
LALT: Low altitude operations		1	3			1	2		2	1
CABIN: Cabin safety events	2	1	3	1					1	
LOLI: Loss of lifting conditions en-route			1	2	1	2		1		
AMAN: Abrupt manoeuvre	1				1	1				3
F-POST: Fire/smoke (post-impact)			1	1	1		1	1		
GTOW: Glider towing related events	1						1	2		
ICE: Icing					2			1	1	
USOS: Undershoot/overshoot	1			2		1				
MED: Medical				1	1					1
SEC: Security related		1	1		1					
UIMC: Unintended flight in IMC		2				1				
FUEL: Fuel related	1					1				
RI: Runway incursion - vehicle aircraft or person	1								1	
UNK: Unknown or undetermined			1							

Aircraft damage by operation type

		2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Commercial Air Transport	Destroyed		1		1	1		1			2
	Substantial	2	5	4	4	2	13	11	6	1	5
	Minor	150	192	356	526	219	159	111	41	49	40
Nationally Regulated Operations	Substantial					2					
	Minor					2	1	1	2	1	
Non-Commercial Operations	Destroyed		2	3	4	7	6	4	5	2	4
	Substantial	8	2	10	11	8	7	15	10	5	7
	Minor	25	24	28	29	51	48	45	40	59	40
Not Applicable	Substantial						1				
	Minor										1
Specialised Operations (Aerial Work)	Destroyed	3	3	7	4		1	1	7		2
	Substantial	1		1	2	2	3	2	2	1	4
	Minor	4	2	2	1	5	6	6	5	6	10
Unknown	Substantial									1	
	Minor	2							1	1	