

100th Flight of the BODENSEE

Flight Time: 5 Hours 7 Min.

Total Distance: 395 Mi.
Average Speed: 76.5 M.P.H.

TIME	ALTITUDE ABOVE SEA LEVEL	TEMPERATURE		RELEASE OF BALLAST	MOTORS			OWN SPEED	BASE COURSE	DRAFT	COURSE STEERED	WEATHER	WIND		DISTANCE FROM LAST POINT	SPEED FROM LAST POINT MPH	SHIP'S POSITION
		AIR	GAS		1	2	3						STRENGTH MPH	DIRECTION			
9.28	1310 Ft.	28.4	28.4		Half Speed				28°	2°	38°	FOG	SOUTH	1.1	M1.		TAKEOFF
9.55	2380 Ft.	"	"	From 9.43	Full			73.4	"	3°	33°	CLEARING	SSW	6	33.5	83.3	BIBERACH
10.12	"	"	"						"	3°	28°	"	WSW	9-11	22.6	80.2	UIM
10.28	"	32.0	28.4						34°	"	36°	MISTY	"	"	22.4	76.5	AALEN
11.20	1890 Ft.	37.4	37.2						60°	20°	30°	"	SSW	11	59.6	74.6	NURNBERG
11.32	2460 Ft.	"	"						16°	3°	35°	GUSTY	SSE	9	14.9	81.5	GRAFENBERG
11.52	"	"	"						44°	9°	55°	"	"	"	27.3	"	KULMBACH
12.03	2630 Ft.	"	"						13°	"	30°	"	"	"	36.6	79.6	LOBENSTEIN
12.18	"	"	"						29°	"	35°	"	SOUTH	9	21.2	70.9	NEUSTADT
12.46	1970 Ft.	"	"						"	"	21°	"	SW	6	33.0	79.0	WEISSENFELS
12.56	1430 Ft.	"	"						"	"	"	"	"	"	10.6	80.9	MERSEBURG
1.00	1150 Ft.	41.0	44.6	1.25	Half				"	10°	11°	"	"	"	8.7	74.6	HALLE
1.42	985 Ft.	"	"	1.45	Full				36°	"	36°	"	"	9	58.4	"	BRUCK
2.03	"	"	"		Half				45°	"	56°	"	"	9	31.0	"	POTSDAM
2.12	"	"	"						Various	"	"	"	"	"	8.7	"	STAAKEN
2.35	165 Ft.	"	"		Stop				"	"	"	"	"	"	6.2	"	LANDING
									"	"	"	"	"	"	39.5	"	

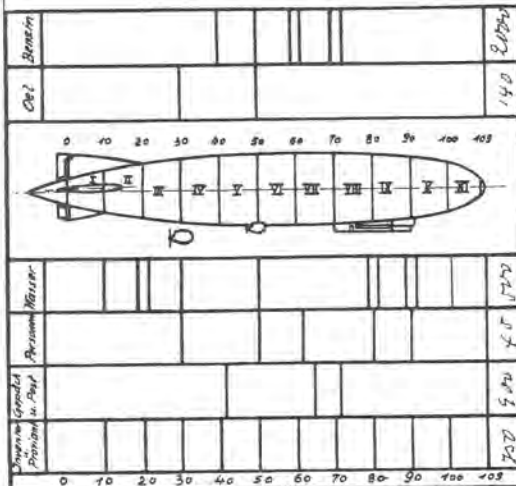
Consumption of Supplies:
(a) Gasoline 2200 Lb.
(b) Oil 110 Lb.
(c) Gas 35,200 Cu. Ft.

BAROMETER - 28.43"

PRESSURE HEIGHT - Lake Constance

100te Fahrt des Passagierluftschiffes Bodensee am 29. 11. 1919
Zielfahrt Friedrichshafen nach Staaßen.

Laftverteilung:



kg
Benzin 2000 25 Ballast 2000
Öl 140 1 Ballast 80
Wasserballast 200 820
2 Befahrung 360 10
Inventar u. 1000 240
Relevante 100 400
Dienstmann 720 3150
Zufuhrung (Zu. K. u. S.) kg
Menge bei 100 720 720 kg

2000 1000
v - 2 e - 3
h - 724 mm s - 0.114
rb - 70
Nachfüllmenge 1800 cdm

7200 kg
14000 kg
21900 kg
22000 kg
Differenz 100 kg
Freier Auftrieb 100 kg
Reduzierte Nutzlast 9200 kg

Befahrung: 1. Führer: Heinen
2. Steuermann (Helfer, Führer): W. Hermann - Hamuschka
3. Seitensteuer: Heinen, Braun
4. Höhensteuer: Hamuschka - Linckelmeier
5. Steuerbordgondel: W. Linckelmeier
6. Backbordgondel: Heinen, Linckelmeier
7. Achtergondel: Heinen, Linckelmeier, Heinen, Linckelmeier
8. Retter: Heinen

Legter Wetterbericht:

Windmessungen:

über Nord + Nord Europa
in Ost Deutschland

Pool Süd 5
300 m
1000 m
1000 m

Below is a translation of the flight log of the BODENSEE shown at left.

100TH FLIGHT OF THE PASSENGER AIRSHIP BODENSEE ON NOVEMBER 29, 1919.
SCHEDULED FLIGHT, FRIEDRICHSHAFEN TO STAAKEN

LOAD DISTRIBUTION:

	Gasoline	Oil	Water	Persons	Baggage & Mail	Stores
	4410	309	1100	43	1990	1690

LB.
Gasoline 4410 25 Passengers 4410
Oil 309 1 Guest 176
Water Ballast 1100 Baggage 1810
17 Crew 2970 Mail 22
Spare Parts 1320 Provisions 530
& Stores 330

Service Load 10,470 Useful Load 6950

Useful Lift with 100% Filling 17,420 LB.

AIR

T. = 28.4°F.
BAR. = 28.43 In.
Rel. Humidity = 70%

GAS

T. = 26.6°F
SP. Gravity = 0.104
Added Gas Filling = 63,600 Cu. Ft.

USEFUL LIFT = 17,420 LB.
WEIGHT EMPTY = 30,870 LB.
FLYING WEIGHT = 48,290 LB.

Lift with 100% Volume (706,000 Cu. Ft.): BAR.

28.43 in. T. AIR 28.4° SP. 0.104, Humidity 70% = 48,600 LB.

Difference = 310 LB.
Free Lift = 330 LB.
Reduced Useful Lift = 20,400 LB.

Crew: 1. Commander - Heinen
2. Quartermaster (2nd in command) - Wittenmann, Hamuschka
3. Rudder Man - Molnar, Braun
4. Elevator Man - Samst, Hinkelder
5. Starboard Gondola - Weiss, Leichter
6. Port Gondola - Wegner, Hetka
7. After Gondola - Klefer, Hink, Rieder, Christ
8. Steward - Kubis

Latest Weather Report:

Wind Measurements:

Low Over West + North Europe
High Over East Germany

Lake Constance South 11 M.P.H.
1000 Ft. S.W. by W. 18 M.P.H.
1650 Ft. S.W. 15-1/2 M.P.H.
2600 Ft. S.W. 20 M.P.H.