$\mathbb{B}\mathbb{Y}$ $\mathbb{A}\mathbb{R}$ $\mathbb{T}\mathbb{O}$ $\mathbb{B}\mathbb{A}\mathbb{T}\mathbb{L}\mathbb{E}$ allied paratroop, glider, and air supply operations during operation market, september 1944

By Akhil Kadidal, October 2024

No two sources of data on operation Market agree uniformly with each other, even if they happen to be primary sources. Much of the initial, official data compiled in October 1944 (which considered such factors as the number of aircraft used or lost, gliders landed, troops dispatched, supplies dropped...etc.) was incomplete or had errors. Further post-action \searrow analysis by Allied commands in early 1945 helped to fill in some blanks, improving the

overall quality of the data. However, post-war researchers (both civilian and military) have unearthed additional information to refine the wartime dataset. By cross-checking wartime and post-war data, the statistical information below is my attempt to present reliable statistics on Operation Market.

orne forces*					PA	PARATROOP DROP AND PARACHUTE RESUPPLY																										
y aircraft of US rrier Command British No 38 Groups***	Aircraft Dispatched	Aircraft Effective	Aircraft Aborted	Aircraft Destroyed or Missing (1)	Aircraft Damaged	Aircraft crewmen KIA or MIA (2)	Troops Carried	Troops dropped and landed	Drop casualties	Vehicles landed	Arty pieces dropped	Equipment & supplies dropped (tons)	% of supplies recovered	Aircraft Dispatched	Aircraft Effective	Aborteu	Aircraft Destroyed or Missing	Aircraft Damaged	Aircraft crewmen KIA or MIA (2)	Gliders Dispatched	Gliders Effective	Gliders Aborted	Troops Carried by by Gliders	Troops Landed by by Gliders‡	Landing casualties among troops	Artillery Carried by Gliders	Artillery Effective	Vehicles Landed by Gliders	Vehicles Effective	Equipment & supplies landed (tons)	% of supplies recovered	
st AB Division	428	424	0	16	98	26	6735	6712	109	0	0	167	7 SEPTEM	70	64	6	6	42	18	70	62	6	311	219	5	8	8	43	28	75.2		US 101st AB Division
nd AB Division	482	480	0	10	131	25	7274	7229	124	0	12	247		50	48	1	1	5	4	50	48	1	216	215	6	0	0	28	24	10		US 82nd AB Division
by US IX TCC		143	0	0	5	0	2283	2278	?	0	0	57		070	000	40	0	7		050	010			0000					400			British by US IX TCC
JK 38 & 46 Gps Total	1065	1058	1	26	234	51	16292	186 16405	233	0	12	471		370 490	330	40 47	7	54	22	358 478	318	40	527	2908	11	44 52	<u>,</u> 8	71	420	85.2		British by UK 38 & 46 0 Total
Total	1003	1030		20	201	31	10232	10-105	200	0	12	D+1, 18	SEPTEMB	ER 1944.	MONDAY	7/	,	5-7	22	470	-120	77	327	3072		32		71	7/2	00.2		Total
1st AB Division	121	119	2	4	70	0	0	0	0	0	0	241	40	450	437	13	4	112	8	450	429	13	2624	2605	26	0	0	156	151	244	100	US 101st AB Division
2nd AB Division	131	127	4		70	0	0	0	0	0	0	264	60	454	450	4	9	100	23	454	424	4	1899	1650	45	68	54	206	177	211		US 82nd AB Division
sh by US IX TCC		126	0	6	24	22	2179	2170	24	0	0	51											W/////////////////////////////////////									British by US IX TCC
sh by UK 38 Gp Total		32 404	0	10	108	22	2179	2170	24	0	0	643	14	297	285	10 27	2 15	30	22 53	1201	1125	24 <i>A</i> 1	Unclear	6965	71	52 120	54	362	771	476		British by UK 38 & 46 G
Total	712	70-7	U	19	100	22	2175	2170	24	0	0	D+2.19	SEPTEMBI	R 1944.	TUESDAY	21	13	272	33	1201	1123		Olicical	0303	71	120	34	302	771	470		Total
11st AB Division														386	250	130	17	169	31	385	225	130	2310	1363	22	68	40	136	79	245	Ś	US 101st AB Division
for US 82nd AB	60	34	24	2	16	5	0	0	0	0	0	71.2	181/4																			Supply for US 82nd AB
sh by US IX TCC		4-5																								_						British by US IX TCC
UK 38 & 46 Gps	165	152	2	19	97	5	0	0	0	0	0	388	5.5	44	32	12	0	170	21	44	32	12	2210	107	22	9	40	136	63	245		British by 38 & 46 Gps
Total	223	100	20	21	113	3	0	U	U	U	D ·	+3. 20 S	E P T E M B E R	1944. W	/ EDNESDA	Υ	10	170	31	423	231	142	2310	1470	22	//	40	130	142	240		Total
11st AB Division	47	47	0	0	5	0	125	125	2	0	6	46.6	31///																			US 101st AB Division
for US 82nd AB	308	307	1	0	6	0	0	0	0	0	0	442	80	1	1					1	1									1.5	100	Supply for US 82nd AB
h by US IX TCC																																British by US IX TCC
K 38 & 46 Gps		152	2	9	62	3	0	0	0	0	0	386	14		1					1										4.5		British by UK 38 & 46 G
Total	519	506	3	9	73	U	125	125	2	U	ь	8/4.6 1 ± 4 2 1 9	S E P T E M B E	P 1944	THIIRSDAY	V														1.5		Total
1st AB Division	30	24	6	0	0	0	0	0	0	0	0	16	31	к 1544,	IIIOKSDA																	US 101st AB Division
2nd AB Division	33	31	2	0	0	0	0	0	0	0	0	15	23																		_	US 82nd AB Division
sh by US IX TCC	114	72	41	5	33	11	1568	1003	41	0	0	66	4																			British by US IX TCC
JK 38 & 46 Gps	117	91	2	23	61		0	0				271																				British by UK 38 & 46 G
Total	294	218	51	28	94	11	1568	1003	41	0		368 D±5 22	SEPTEMB	FR 1944	FRIDAY																	Total
							No troop	landing	s or air	supply (s day due			ather in	Britain:	aircraft	unable t	o takeof	f											
							,	S		7 7 3			SEPTEMBE				,															
01st AB Division														85	79	5	0	0	0	85	79	5	395	338	12	15	14	23	21	95	92	US 101st AB Division
2nd AB Division	4.1											20		406	398	4	4	96	13	406	351	6	3385	+2900	17	25	24	104	92	253	911111111111111111111111111111111111111	US 82nd AB Division
sh by US IX TCC JK 38 & 46 Gps		115	0	6	63	0	560	558	9	0	0	28 291	2.5																			British by US IX TCC British by UK 38 & 46 G
Total			2	6	63	0	560	558	0	0	0	319		491	477	9	4	96	13	491	430	11	3780	3238	29	40	38	127	113	348		Total
												D+7, 24	SEPTEMB																			
IK 38 & 46 Gps	21	17	0	0	4	0	0	0	0	0	0	8																				British by UK 38 & 46 G
													SEPTEMB	ER 1944,	MONDAY																	110 464
1st AB Division	34	34	0	0	0	0	0	0	0	0	0	48.7	64																		_	US 101st AB Division
JK 38 & 46 Gps Total	41	40	0	1	0	0	0	0	0	0	0	15.5 64.2	U																			British by UK 38 & 46 G
Total		10									_	·																				Total
											T	UTAL FOR	R 17 TO 2	5 SEPTEN	IBER 194	4																
	1674	1627	39	39	326	56	14134	14066	235	0	18	1558.5		1902		163	42	524	97	1901	1619	163	11140		133	184	140	696		1134.7		
TAL	1067	958	50	71	363	33	6590	6195	Unclear	0	0	1648.5		711	647	62	2	46	22	699	622	76	Unclear	5725	Unclear	105	Unclear	Unclear	926	21		
	Aircraft	Aircraft	Aircraft	Aircraft Destroyed	Aircraft	Aircraft crewmen	Troops Carried	Troops dropped	Drop casualties	Vehicles landed	Arty pieces	Equipment & supplies dropped (Tons)	% of supplies recovered	Aircraft	Aircraft Effective	Aircraft Aborted	Aircraft Destroyed or Missing	Aircraft	Aircraft crewmen	Gliders	Gliders	Gliders Aborted	Troops Carried by	Troops	Landing casualties	Artillery Carried by Gliders	Artillery Effective	Vehicles Landed by Gliders	Vehicles Effective	Equipment & supplies	% of supplies	
	Dispatched	Effective	Aborted	or Missing (1)	Damaged	KIA or MIA (2)	Carried	dropped and landed	casualties	landed	dropped	dropped (Tons)	recovered	ызратспед	ETTECTIVE	Aborted	or Missing	Damaged	KIA or MIA (2)	Dispatched	Effective	Aborted	Carried by by Gliders	Troops Landed by by Gliders‡	among troops	Gliders	Effective	Gliders	Effective	& supplies landed (Tons)	recovered	
												D+9, 26	SEPTEMBI	R 1944,	TUESDAY																	
														209	209	0	0	0	0	0	0	0	873	873	0	0	0	134	0	378.7	100	British by US IX TCC
S IX TCC		<u></u>				<u> </u>	<u> </u>																									
S IX TCC												D+12, 29	9 SEPTEM	BER 1944	, FRIDAY																	
S IX TCC Division													9 SEPTEM SEPTEMBI	11	5	6	0	0	0	20	20	0	0	0	30							US 82nd AB Division

* The term "British" in this column covers the British 1st Airborne Division, the British Glider Regiment, and the Polish 1st Independent Parachute Brigade.

** The United States Army Air Force's (USAAF's) 9th (IX) Troop Carrier Command handled all air logistics for the US 82nd and 101st Airborne Divisions during the battle.

*** The British Royal Air Force's (RAF's) No 38 and No 46 Groups were primarily used to tow gliders to the Arnhem area and to drop supplies.

† Glider-landing operations comprise nearly all of this dataset. Deliveries by aircraft physically landing at improvised airstrips were limited to 26 September 1944.

‡ Numbers for British "troops landed by gliders" includes 1,262 British/Imperial glider pilots.

(1) Nineteen of the planes listed in these tables as destroyed or missing were later repaired or salvaged. (2) Minimum known figures. Total as of 31 October 1944.

MAJOR SOURCES

38 Group Operation Order No 526 for Operation "Market", SHAEF, 23 December 1944.

Air Invasion of Holland, IX Troop Carrier Command, SHAEF, 2 Jan 1945.

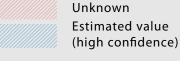
Allied Airborne Operations in Holland, September-October 1944, SHAEF, 10 February 1945.

Brereton, Lewis H (Lt. General), First Airborne Army Market-Garden, SHAEF/US Army, 22 December 1944.

Higgins, G J (Brig. General) Report of Airborne Phase (17-27 September 1944), Operation "Market," 101st Airborne Division, SHAEF, 15 October 1944 (incl Annex 4) Margry, Karel, Operation Market-Garden: Then and Now, Volumes 1 & 2, Pen & Sword, 2021.

Middlebrook, Martin, Arnhem 1944: The Airborne Battle, Penguin 1995.

Warren, Dr John C., Airborne Operations in World War II, European Theater, USAF Historical Studies No 97, USAF Historical Division, Air University, September 1956.



. .

Aircraft shot down by AA over Boxtel and Schinjdel after completing drop.

21st Independent Parachute Company

22 Horsa gliders aborted over southeast England.

640 gallons of gasoline also landed.

All British 4th Parachute Brigade.

Resupply operation by US 8th
Air Force's 2d Air Division.
520 gallons of gasoline
also landed.

Two Hamilcar gliders delivered 14

340 gallons of gasoline also dropped.
25 gallons of gasoline also dropped.
Low clouds and bad weather; 80 gliders broke loose, landing in England; 19 gliders crashed in English Channel; 31 in Belgium. Also, 24 Wacos went missing (after landing in enemy territory)
35 planes dropped 17 tons of supplies (food and medicine) of which 31% was recovered. Twelve planes with B Battery ,377th Parachute Field Artillery

Primarily ammunition.

All Polish Parachute Brigade.
All food; 40% of supplies dropped by B-17's recovered; 50% from C-47s.
60% of supplies dropped by B-17s recovered; 72% from C-47s.

Balance of Polish troops not dropped on 21 September.
21 C-47s tried to drop supplies to the Hartenstein Hotel but missed due to bad weather.
325th Glider Infantry Regiment, Four batteries of 80th (Airborne) Anti-Tank Regiment, and others.
No precise figure available.
Over 2,900 troops.

Losses probably due to pilferage.

Landed at Oud Keent airstrip, 2¼ miles west of Grave. Personnel landed included 162 men from the 1st Battery (2nd Light Anti-Aircraft Regiment); 706 men of the Airborne Forward Delivery Airfield Group (AFDAG) and five war correspondents.

