

<i>GROUPS</i>	Target	Assigned Mission	Aborted Unauth.	Bombs on Target (%)	Returns Repairable	Crew Lost	Individual Results
400 <sup>th</sup>	Offenburg	17	3	17.1	13	8	50.0%
800 <sup>th</sup>	Offenburg	16	0	16.6	15	1	50.0%
Wing Total		33	3	16.8	28	9	50.0%

Bombs on Target	16.8 Percent	Good
B17 Survival Expectation	14.1 Missions	Good
Crew Survival Expectation	25.0 Missions	Superb
Individual Results	50.0 Percent	Win

**Substantive 8th AF Victory**

SQUADRONS		Assigned Mission	Aborted Unauth.	Bombs on Target (%)	Returns Repairable	Crew Lost	Individual Result
<b>400<sup>th</sup></b>							
Ten Angels	B-17G	Y	N	30	Y	0	Win
Shamrock Shelly	B-17G	Y	N	30	Y	0	Win
Pete's Pieces	B-17G	Y	N	30	Y	0	Win
Frankie's Charm	B-17G	Y	Y				
Aluminum Overcast	B-17G	Y	N	60	Y	0	Win
<i>400<sup>th</sup> Total</i>		5	1	30.0	4	0	100.0%
<b>401<sup>st</sup></b>							
Sherry Baby	B-17G	Y	N	30	Y	0	Win
Scarecrow	B-17G	Y	Y				
Inner Demons	B-17G	Y	Y				
Tipsy Pete	B-17G	Y	N	0	Y	1	Draw
Dumbo	B-17G	Y	N	0	N	6	Loss
<i>401<sup>st</sup> Total</i>		5	2	6.0	2	7	0.0%
<b>402<sup>nd</sup></b>							
Marge's Barge	B-17G	Y	N	40	Y	0	Win
Bloody Angel	B-17G	Y	N	0	Y	0	Draw
Sweet Charlene	B-17G	Y	N	0	Y	0	Draw
Reich Raider	B-17G	Y	N	30	Y	0	Win
Root'n Toot'n Shoot'n	B-17G	N					
Pandora's Boxers	B-17G	Y	N	0	Y	0	Draw
Suffolk Punch	B-17G	Y	N	0	Y	1	Draw
Dakota Blizzard	B-17G	Y	N	40	Y	0	Win
<i>402<sup>nd</sup> Total</i>		7	0	15.7	7	1	42.9%
Group Total		17	3	17.1	13	8	50.0%

Zone: 7

Target: Offenburg

Bombs on Target:	17.1 Percent	Good
B17 Survival Expectation:	13.2 Missions	Good
Crew Survival Expectation:	16.5 Missions	Good
Individual Results:	50.0 Percent	Win

**Marginal 8th AF Victory**

SQUADRONS		Assigned Mission	Aborted Unauth.	Bombs on Target (%)	Returns Repairable	Crew Lost	Individual Result
<b>403<sup>rd</sup></b>							
Susan Tall	B-17G	Y	N	20	Y	0	Win
Sassy Sadie	B-17G	Y	N	0	Y	0	Draw
Honest Abe	B-17G	Y	N	30	Y	0	Win
The Duchess	B-17G	Y	N	20	N	0	Loss
October Monday	B-17G	Y	N	0	Y	0	Draw
<i>403<sup>rd</sup> Total</i>		5	0	14.0	4	0	20.0%
<b>804<sup>th</sup></b>							
Spirit of 1776	B-17G	Y	N	40	Y	1	Win
Wrath of God	B-17G	Y	N	0	Y	0	Draw
Bell of the Brawl	B-17G	Y	N	0	Y	0	Draw
Geordie Lass	B-17G	Y	N	20	Y	0	Win
Damn Yankee	B-17G	Y	N	30	Y	0	Win
<i>804<sup>th</sup> Total</i>		5	0	18.0	5	1	60.0%
<b>805<sup>th</sup></b>							
Hard Eight	B-17G	Y	N	30	Y	0	Win
Last Call	B-17G	Y	N	25	Y	0	Win
Furious Francine	B-17G	Y	N	30	Y	0	Win
Lucky Duck	B-17G	Y	N	0	Y	0	Draw
Miss Match	B-17G	Y	N	20	Y	0	Win
Crushing Avenger	B-17G	Y	N	0	Y	0	Draw
<i>805<sup>th</sup> Total</i>		6	0	17.5	6	0	66.7%
Group Total		16	0	16.6	15	1	50.0%

Zone: 7

Target: Offenburg

Bombs on Target	16.6 Percent	Good
B17 Survival Expectation	15.0 Missions	Good
Crew Survival Expectation	25.0 Missions	Superb
Individual Results	50.0 Percent	Win

**Substantive 8th AF Victory**

## Analysis Notes

The analysis is based on the criteria in section 7.0 of the rules, "How to Win."

### Victory Conditions

Listed as "Individual Result" on the spreadsheet, a crew records a Win if their bomb run is On Target, and the aircraft is fit for further missions. A Loss is recorded if the aircraft cannot fly further missions. Any other outcome is a Draw.

The standard for the Group is based on considering an individual win as +1, an individual draw as zero, and an individual loss as -1. The Group has a win if the average of these values exceeds half the standard deviation. The Group has a Loss if the crews have more losses than the square root of the number of crews assigned. Any other result is a Draw. For the purpose of calculating an overall result for the group, +1 point is awarded for a win, and -1 point is awarded for a loss. Zero points are awarded for a draw.

Crews and aircraft that do not fly, for whatever reason, do not affect this determination.

### Bomb Run Result

The average bomb run percentage ("BOT Pct") for all crews assigned to the mission, including those that do not fly ("Abort Unauth.") is calculated and compared to the chart in section 7.3. For the purpose of calculating an overall mission result for the group, +1.5 points are awarded for an Excellent result, +0.5 for Good, -0.5 for Fair, and -1.5 for Poor.

### B-17 and Crew Survival Expectation

A B-17 and a Crew Member loss rate per zone are each calculated. The reciprocal of this rate is the most likely number of zones a B-17 or Crew Member could expect to survive. This is converted to an expected number of missions based on the weighted average target distance of 7.44 zones in the "Queen in Germany" variant. The results are compared to the chart in section 7.3. For both B-17 Survival and Crew Survival, when calculating an overall mission result for the group, +2 points are awarded for an Superb result, +1 for Excellent, zero for Good, -1 for Fair, and -2 points for Poor.

Crews and aircraft that do not fly, for whatever reason, do not affect this determination.

### Overall Group Result

While all these criteria might be measuring the same thing (e.g., if the Luftwaffe does well, there will probably be more individual losses than wins, a low bomb run average, and poor survival expectations), the two survival expectations are probably most closely related. Thus, the points for the two survival expectations are averaged, then added to the sum of points for Individual Results and Bomb Run Results. Totals between -1 and +1 indicate a Draw. The 8th Air Force wins with totals +1 or greater, while the Luftwaffe wins with results -1 or less. Because my youth was spent playing SPI games, victories are Marginal with totals from +/- 1 to +/- 2, Substantive with totals from +/- 2 to +/- 3, and Decisive with totals from +/- 3 or beyond.