

CAUSE AND EFFECT ESTIMATE OF ENEMY KIA AT KHE SANH

15 JANUARY - 31 MARCH 1968

1. Methodology: The cause and effect estimate is based on the assumption that the killed by ordnance was proportional to the troop density and tons of ordnance delivered:

$$KIA = K \times \frac{Nr \text{ Troops}}{Km^2} \times \text{Tons of Ordnance}$$

Where K is a constant of proportionality. Data based on the friendly experience at Khe Sanh for the period 27 January through 31 March was used to compute the constant of proportionality:

- a. Troop strength = 6085
- b. Tons received = 99.25
- c. Friendly KIA = 167
- d. Area (Km)² = 4.8
- e. K = $\frac{(KIA)}{\frac{(TROOPS)(TONS)}{(Km^2)}} = \frac{167}{\frac{6085}{4.8} \times 99.25} = .00133$

The estimate of enemy KIA is obtained by applying this formula to the enemy force:

$$\text{Enemy KIA} = .00133 \frac{\text{Troops}}{Km^2} \times \text{Tons}$$

$$\text{Enemy KIA} = \frac{(.00133)(15,100)(99,600)}{564} = 3547 = 3550$$

Estimated Enemy KIA = 3550

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By in, NARS, Date 6-8-84

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FRIENDLY TONS OF ORDNANCE DELIVERED 15 JANUARY - 31 MARCH

I. Air Delivered:

a. TAC AIR	36,000 TONS
b. B-52	60,000 TONS
c. TOTAL	96,000 TONS

II. Artillery:

<u>CALIBER</u>	<u>AVG RDS/DAY</u>	<u>POUNDS/RD</u>	<u>POUNDS/DAY</u>
175	137	147	20,139
155	298	95	28,310
105	1231	33	40,623
4.2	204	27	5,508

TOTAL POUNDS/DAY

94,580

TOTAL TONS/DAY

47.29

TOTAL FOR PERIOD (76 DAYS) = $(47.29)(76) = 3594 = 3600$

III. Recapitulation:

a. AIR	96,000 TONS
b. ARTY	3,600 TONS
c. TOTAL	99,600 TONS

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ENEMY STRENGTH

(20.0)

(15.8)

(16.4)

(9.1)

AVERAGE STRENGTH 15,100

20

16

12

8

4

0

THOUSANDS

10 20 30 10 20 30

JAN 68

FEB 68

MAR 68

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AN ESTIMATED KIA FROM BOMB DAMAGE ASSESSMENT

<u>TYPE</u>	<u>NR KIA</u>	<u>NR DESTROYED</u>	<u>TOTAL KIA</u>
BUNKERS	2	891	1780
TRUCKS	1	253	253
STRUCTURES	.5	1061	531
SECONDARY EXPLOSIONS	.1	4705	470
SECONDARY FIRES	.1	1932	193
KILLED BY AIR	-	-	<u>1288</u>
TOTAL			4515