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Background Exploratory Data Analysis

The US Army's Center for Strategy and Force Evaluation

RESEARCH PAPER CAA-RP-95-1

PERSONNEL ATTRITION RATES IN
HISTORICAL LAND COMBAT OPERATIONS:
SOME EMPIRICAL RELATIONS AMONG
FORCE SIZES, BATTLE DURATIONS, BATTLE
DATES, AND CASUALTIES

MARCH 1995



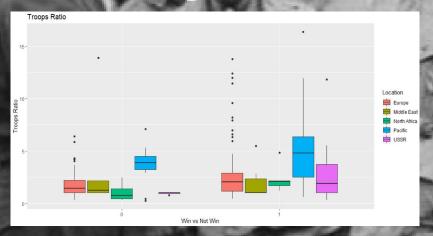
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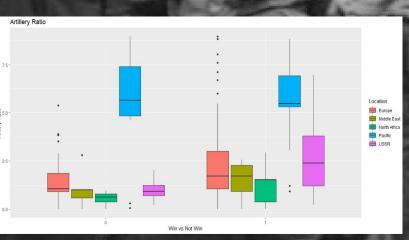
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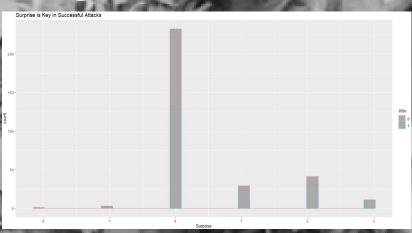
PREPARED BY TACTICAL ANALYSIS DIVISION

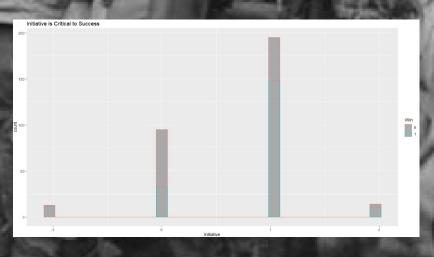
US ARMY CONCEPTS ANALYSIS AGENCY 8120 WOODMONT AVENUE BETHESDA, MARYLAND 20814-2797

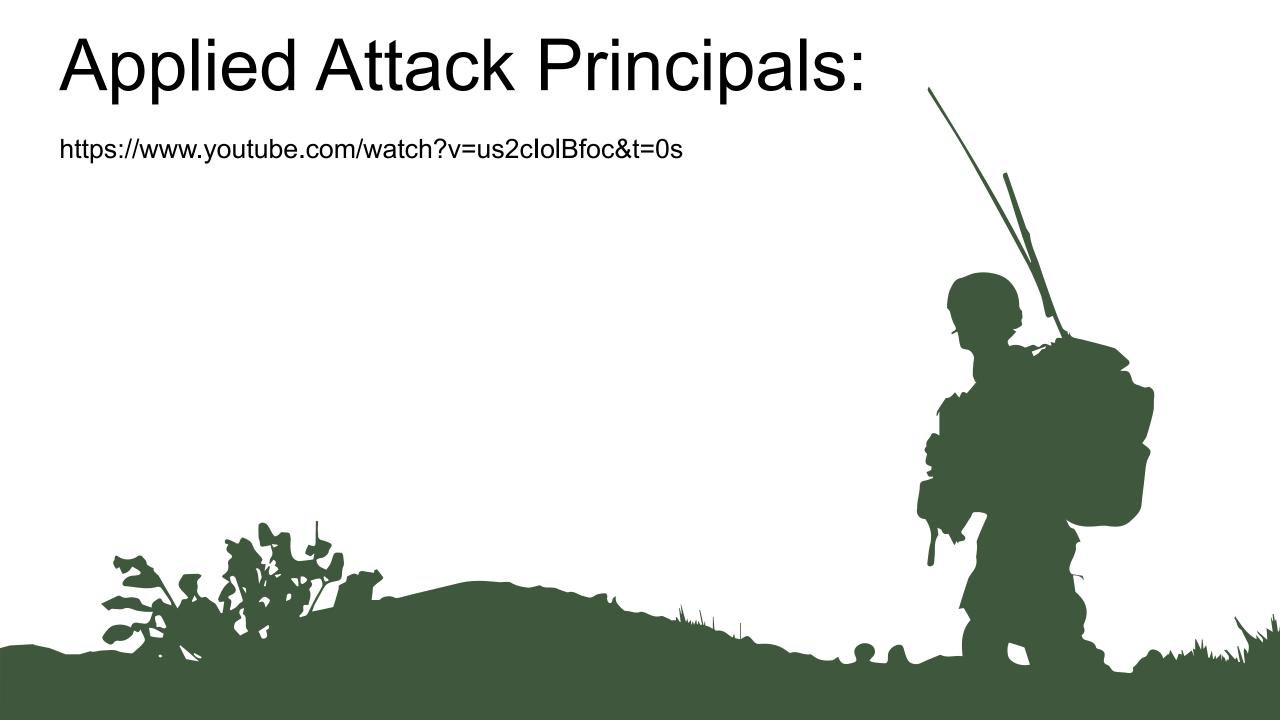












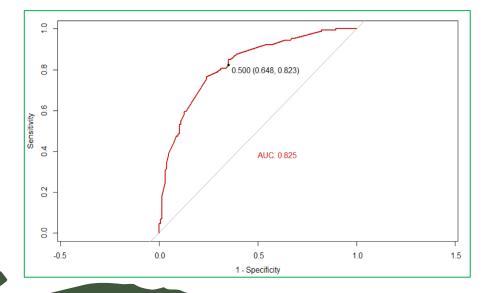
Model/Validation

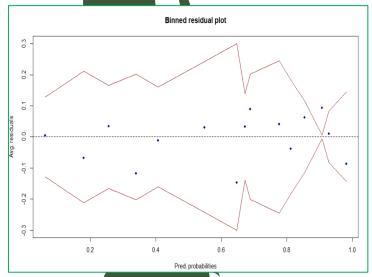
Selection Criteria - BIC

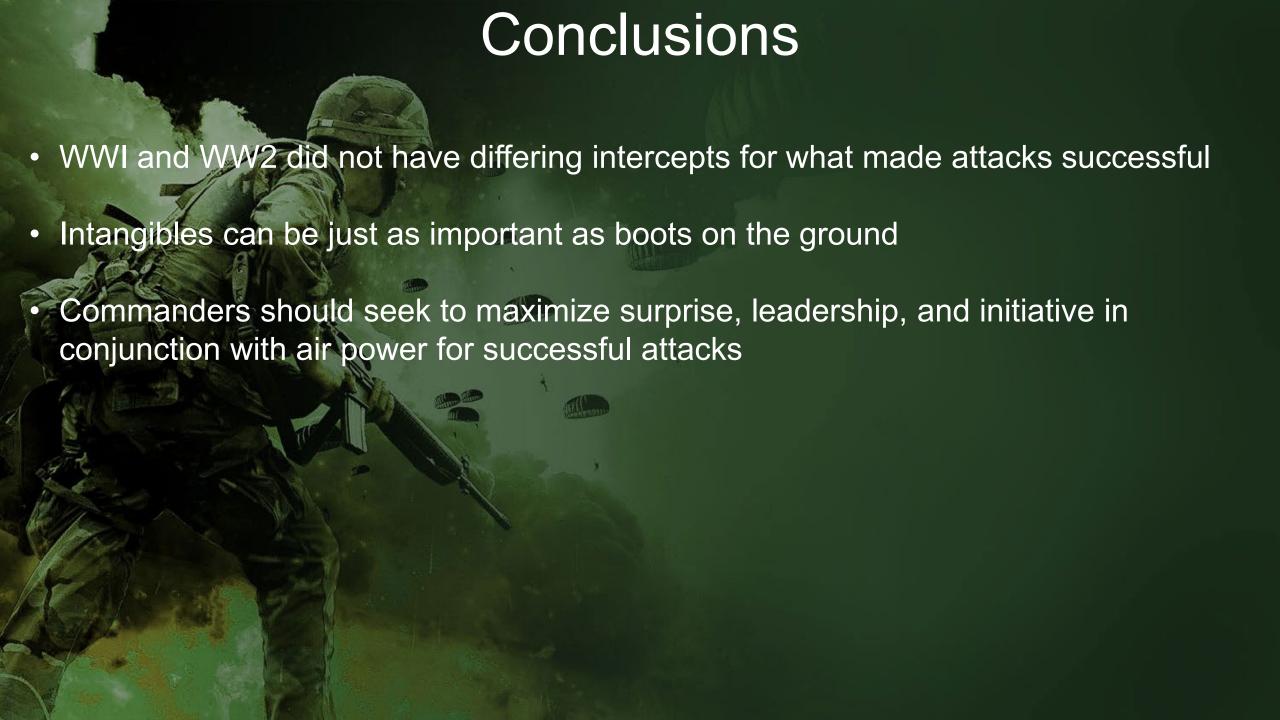
 $Win_{(WW1+WW2)} = \beta_0 + \beta_1 x_{Surprise} + \beta_2 x_{Air.Power} + \beta_3 x_{Morale} + \beta_4 x_{Initiative} + \beta_5 x_{Leadership}$

eta_0	eta_1	eta_2	eta_3	eta_4	eta_5
1.1584	0.3948	0.4754	0.6865	1.2205	1.0418

Metric	Value
Accuracy	0.754
Sensitivity	0.822
Specificity	0.648
AUC	0.825







"FLANK EM THEN SPANK EM." -SUN TZU

Questions?



Sources

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