ENEMY PRISONER OF WAR AND CIVILIAN INTERNEE RATES FOR NORTHEAST ASIA AND SOUTHWEST ASIA

STUDY REPORT

COMBAT DEVELOPMENTS DIRECTORATE

APRIL 1986
**UNCLASSIFIED**

**ENEMY PRISONER OF WAR (EPW)/CIVILIAN INTERNEE (CI) RATE STUDY**

**PERSONAL AUTHOR(S)** Mary Lynn Cook, Robert McConnell, Anna Faye Brandenburg, Dina Philips

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Research was conducted under the direction of Major Kenneth W. Hughes, Chief, Analysis Division, Directorate of Combat Developments, USASSC

**ENEMY PRISONERS OF WAR**
- Rear Battle EPW Factors
- NATO EPW/CI Rates
- Prisoners of War

**CIVILIAN INTERNEES**

**EPW CAPTURE RATES**
- An Audit Trail of historical rates given in FM 101-10-1
- Estimated number of CIs.

**ABSTRACT**

a. **Purpose.** This paper documents work by the US Army Soldier Support Center (SSC) which was performed to review and redefine Enemy Prisoner of War (EPW) and Civilian Internee (CI) rates considering NATO forces in a defensive posture.

b. **Methodology:**
   1. EPW: Analogous historical sample selected.
   2. CI: Factor given in FM 101-10-1 applied to target population.

c. **Results:**
   1. A Composite Rate for EPWs (includes rear battle captures).
   3. Estimated number of CIs.
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Accession For: A-1
ENEMY PRISONER OF WAR (EPW)/
CIVILIAN INTERNEE (CI)
RATE STUDY
FOR
NORTHEAST ASIA (NEA) AND SOUTHWEST ASIA (SWA) THEATERS

1. Purpose. The purpose of this paper is to document work by
the US Army Soldier Support Center (SSC) which was performed in-
response to taskings by HQ, TRADOC and Deputy Chief of Staff for
Operations (DCSOPS) to update/validate EPW/CI rates in the force
roundout model, Force Analysis Simulation of Theater
Administrative and Logistics Support (FASTALS), for NEA and SWA
theaters. Copies of tasking messages are attached at Tab A.
This unclassified report documents the study methodology and
results, but does not contain the derivation of the estimated
number of CIs nor EPWs for SWA. This information is documented
in a classified supplement on file at SSC.

2. Background. In September 1985, the SSC completed a study to
establish EPW/CI rates for NATO forces. SSC provided the Concepts
Analysis Agency (CAA) with the required information on 20
September 1985. On 27 September 1985, the VCSA approved the SSC
rates for NATO force planning. On 6 March 1986, the General
Officer Steering Committee reaffirmed these rates for use in
TAA-93. The current study is in response to follow-on taskings to
provide information on other theaters for use in CAA's FASTALS
Model during the TAA-93 process. Study results for NEA and SWA
were telephonically approved by the Combined Arms Center,
Combined Arms Integration Directorate, on 14 April 1986. Rates
for use in FASTALS were provided to CAA on 17 April 1986 (see Tab
B).

3. Methodology.

a. EPW Rates. SSC's approach to the determination of EPW
rates for both NEA and SWA forces was the same as that used in
the NATO study. Analogous historical samples were selected. It
had been determined during the previous study that there was a
lack of information available from existing automated wartime
models and war games. Because there are defined scenarios for
possible future conflicts in these theaters, relatively small
"matched" samples can be used. The better the match, of course,
the more precise the resulting estimates. Historical samples
were selected based on the recommendations of subject matter
experts and further supported by detailed research. To
accommodate the requirement to provide rates for use in FASTALS,
study results for EPW capture rates are given as the number of
prisoners captured per US combat soldier (divisional equivalents)
per day. A separate rate is given for each of four combat
intensities; i.e., intense, moderate, reduced and reserve.
(1) NEA. The first year of the Korean War, less periods when the combined United Nations (UN) Forces were on the offensive, was determined to be the best available sample for the purposes of this study. The similarities cited in support of the sample as analogous to a future conflict in that area were terrain, avenue of approach, operational art (air/land battle), war of maneuver, guerrilla activity, infiltration, rear battle, isolation from supplies, and numerically superior opposing force. (A list of the primary consultants who assisted and the research material used is given in Tab E.) In addition to the selected sample period, two other periods from the Korean War were evaluated to determine the sensitivity of results to the period of the war selected.

(2) SWA. The uniqueness of the projected situation for SWA required the selection of two historical samples. One sample is applicable to an initial portion of the first 180 days FASTALS time period and the second sample is applicable to the remaining portion of the period. Details explaining these two periods cannot be discussed in this unclassified report, but can be reviewed in OPLAN 1008-86. Consultants and research materials used are listed in Tab F.

(a) The analogous sample selected for the initial period was the experience of the Iraqi forces during their invasion of Iran in 1980. The sample period used was 22 September through 31 December 1980. A substantial number of factors in this sample were cited by the subject matter experts consulted to be analogous to the period for which predictions are needed. These include intensity of conflict, terrain/geography, force posture, weapons, and cultural/political/religious factors.

(b) The second period was matched with a historical sample from the Italian campaign in World War II. The capture rate of US prisoners experienced by the Germans during the period 10 September 1944 and 4 April 1945 while participating in the Gothic Line campaign was determined. Analogous features of this sample include terrain, force posture, tactics, isolation from supplies, numerically superior opposing force, and guerrilla activity.

b. Civilian Internees.

(1) NEA. For the purpose of force structure planning (i.e., use in FASTALS and TAA-93), zero CIs should be assumed for NEA as for NATO. US forces, fighting as an ally with a friendly sovereign government on that government's own terrain, can assume minimal problems with CIs. (This position has been endorsed by Mr. W. Hays Paris, Chief, International Law, Office of the Judge Advocate General of the Army who is considered to be an expert on

*DCSOPS clarified NEA tasking as given in Tab A message. Per telephone guidance on 20 Jan 86, EPW rates were to be determined for US forces in a defensive posture.
civilians internees.)

(2) SWA

(a) The projected situation for SWA is distinctly different than what is projected for NEA in regard to factors affecting civilian internees. Expected heavy civilian resistance to US forces presence, combined with a government that may be primarily responsible for inciting the resistance, will result in a substantial number of civilian internees requiring internment by US personnel. It is anticipated, however, that many "civilians" desiring to resist US presence will fight with the military and paramilitary forces and therefore, if captured, will be classified as EPWs.

(b) CIs are a function of population size in the geographical area covered by US forces and the hostility level of that population. Therefore, it is not possible for FASTALS to generate the number of CIs expected in this theater. This number must be estimated "off-line", as has been done in this study.

(c) A total number of CIs for the entire 180 day FASTALS period is provided in the study results. This number was determined by estimating the urban and town populations for 1993 in the anticipated area of responsibility (AOR) and then applying the appropriate factor from FM 101-10-1 to that population. Should the build-up of the CIs over the 180 days be desired, the geographical progression of US forces during the period can be plotted, populations identified with the geographical areas, and the FM factor applied to these numbers.

4. Results.

a. NEA

(1) The following capture rates were experienced historically during the sample period selected; i.e., the time between June 25, 1950 and July 31, 1951 when UN Forces were on the defensive. (Derivations of these rates is given in Tab C).

| Intense   | 0.003 |
| Moderate  | 0.004 |
| Reduced   | 0.002 |
| Reserve   | 0.001 |

These rates are expressed as the number of EPWs captured per combat soldier per day to meet the requirements of FASTALS. However, because of the method by which the rates were derived, they do include the number of prisoners expected to be captured by the US forces in the rear area as well as by the troops in the main battle operating area.

(2) To consider the impact of the initial invasion of South Korea on the historical EPW rates and also to consider the impact of UN offensive actions (except Inchon), which occurred
during the first thirteen months of conflict, two other sample periods were evaluated. The results of this sensitivity analysis are given in Tab C. In this case, the EPW rates were not significantly changed by varying the sample periods as stated.

(3) For planning purposes, zero CIs should be assumed for NEA. (Reference para 3b(1) above.)

b. SWA

(1) The following capture rates were experienced historically by the Iraqi forces while on the offensive for the first SWA sample.

| Intense | .0003 |
| Moderate | .0004 |
| Reduced | .0002 |
| Reserve | .0001 |

Derivation of these rates requires use of classified data and is not included in this unclassified report.*

(2) The capture rates of US forces historically experienced by the Germans on the defensive during the sample period selected are given below.

| Intense | .0003 |
| Moderate | .0004 |
| Reduced | .0002 |
| Reserve | .0001 |

Derivation of these rates is given in Tab D.

(4) Rates given in para 4b(1) and 4b(2) above are expressed as the number of EPWs captured per combat soldier per day for use in FASTALS. However, incorporated in the rates are the number of enemy prisoners expected to be captured by US forces in the rear area of operations.

(5) Generally, offensive capture rates have been significantly higher than defensive rates. This is not, however, the result found in the two samples taken for SWA. Cultural/religious/political considerations in Iran are primarily responsible for this deviation from expectations.

(5) The expected number of civilian internees for SWA for 180 days is projected to be between 3,500 and 1,750. It is

*Classified portions to supplement this study report are on file at SSC. (Reference "Derivation of EPW/CI Rates for SWA, 25 April 1986").
expected that a large majority of these CIs will be interned
within the first few days. (The number of CIs for SWA can be time
phased, if required, by applying the methodology given in para
7b(2)(c).) Actual calculations generating this number result
from use of classified data and are not included in this
unclassified report.*

c. Historical rates experienced during samples selected are
recommended for use without modifications for the purpose of
force planning. It should be noted, however, that implicit in
this recommendation is the assumption that differences between
the selected samples and the specified scenarios do not
significantly impact the EPW rates.

d. Because FASTALS considers only Army forces, total EPW
workload will not be generated directly from the model.
(Specifically, EPWs captured by the Marines will not be in the
FASTALS workload estimates.) However, for force planning this
additional workload should be considered due to the fact that
Army Military Police personnel are responsible for all EPWs
captured in SWA.

5. Use of Historical Rates. Much research and time were expended
in identifying "matched" historical samples for each theater, and
the samples used are considered by subject matter experts to be
the best available. However, not unexpectedly, some of the
samples match the projected scenarios better than others. The
samples selected for NEA, and previously for NATO, are considered
very well matched. However, the large number of unknowns for SWA
and the number of assumptions necessary to project the scenario
make matched sampling much more difficult. It is therefore
anticipated that the precision of the SWA estimates is less than
that of the other two theaters.

*Classified portions to supplement this study report are on file
at 55C. (Reference "Derivation of EPW/CI Rates for SWA, 25 April
1995".)
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PAGE 02 RUEADWD5827 UNCLAS

RTTUZYUW RUEADWD5827 3521713=UUUURUFEOPENZNRUUUU
R 181602Z DEC 85
FM DA WASHOC //DAHO-FDZ/
TO RUCLAIA/CDRTRADOC FT MONROE VA//ATZD-SE/
INFO RUCLBWA/CDRMPScHTNGCEN FT MCCLELLAN AL//ATZN-MP-CFD
/RUWTFHA/CDRUSACAC FT LEAVENWORTH KS//ATZL-CA//
RUFEAAAA/CORSSC FT BEN HARRISON IN//ATSG-DOH/
RUEADWD/DIRECTOR US ARMY CONCEPTS ANALYSIS AGENCY
//CSAC-FOS//
RUEADWD/DA WASHOC //DAPE-HRE//

BT

UNCLAS

SUBJECT: ENEMY PRISONER OF WAR AND CIVILIAN INTERNEES (EPW/CI)
FACTORS FOR FASTALS
A. LTR, HQDA, DAPE-MPH-CS; 7 MAR 85; SUBJECT: ENEMY PRISONER OF
WAR (EPW) CAPTURE RATES,
B. MSG, HQDA, DACS-ZB; 031430Z AUG 85; SUBJECT: FORCE STRUCTURE
ALIGNMENT.

1. REFERENCE A TASKED THE US ARMY SOLDIER SUPPORT CENTER (SSC) TO
RESOLVE THE MP FAA ISSUE PERTAINING TO EPW FACTORS FOR THE REAR
BATTLE. ADDITIONALLY, IT WAS REQUESTED THAT THE COMBINED ARMS CEN.

2. REFERENCE B TASKED THE SSC TO REVIEW AND REDEFINE EPW/CI RATES
AS THEY RELATE TO NATO FORCES IN A DEFENSIVE POSTURE.
3. DURING THE RECENT MP FAA ANNUAL REVIEW (11 DEC 85) IT WAS NOTED
THAT THE MP FAA ISSUE (ISSUE 19-03) PERTAINING TO EPW/CI CAPTURE
RATES WAS RESOLVED ONLY AS IT PERTAINS TO THE NATO THEATER. IT WAS
DETERMINED THAT A REALISTIC APPROACH TO THE ISSUE MUST INCLUDE
PLANNING FACTORS FOR ALL THEATERS. CONSEQUENTLY, DIRECTOR, FORCE
PROGRAMS DIRECTED THAT EPW/CI PLANNING FACTORS FOR THE SOUTHWEST
ASIA (SWA) AND NORTHEAST ASIA (NEA) THEATERS BE ALIGNED WITH CURRENT

During the recent MP FAA annual review (11 Dec 85), it was noted that the MP FAA issue (Issue 19-03) pertaining to EPW/CI capture rates was resolved only as it pertains to the NATO theater. It was determined that a realistic approach to the issue must include planning factors for all theaters. Consequently, the Director, Force Programs directed that EPW/CI planning factors for the Southwest Asia (SWA) and Northeast Asia (NEA) theaters be aligned with current...
AIRLAND RATTLE DOCTRINE:

4. REQUEST ACTION BE INITIATED TO VALIDATE CURRENT EPW/CI PLANNING FACTORS FOR SWA AND NEA THEATERS. IT IS FURTHER REQUESTED THAT THE VALIDATED FACTORS BE PROVIDED THIS HQ NLT 5 MAR 86.

5. POC THIS HQ IS MAJ WHITE, DANO-FDL, AUTOVON 224-0552.

BT
*5827

NNNN

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ROUTINE

--
SSC FAC DMEAD DINFOS EREC DISC DCASMA 21ST OSP
- 64TH 123RD 327TH TRAMEA DCAA CIDC DRMO READI-GRP
- AAFES COMSY DOIM COMMSPT COMSEC SSD 972ND FILECPY MDR

RTTUZYW RUCLAIA3830 3572256-UUUU--RUFEAAA; ZNR.UUUU
R 201300Z DEC 85
FM CDR TRADOC FT MONROE VA //ATCO-SE/
TO RUFEAAA/CDR SOLDIER SPCN FT BEN HARRISON IN //ATSG-DDN/
INFO RUWTFMA/COR USACAC FT LEAVENWORTH KS //ATZL-CA/
RUEADWD/HQ DA WASHDC //DAHQ-FDZ/DAPE-MRE/
RUCLBWA/COMDT MSECH FT MCCLELLAN AL //ATZN-MP-CPD/
BT
UNCLA/

SUBJECT: ENEMY PRISONER OF WAR AND CIVILIAN INTERNEES
FACTORS FOR FORCE ANALYSIS SIMULATION OF THEATER
ADMINISTRATION AND LOGISTICS SUPPORT

A: MSG, HQ DA, DAMQ-FDZ, 1816027Z DEC 85, SAB:
1. REQUEST SSC TAKE THE LEAD IN ACCOMPLISHING THE HQ DA TASKS
   IDENTIFIED IN REF A;
2. THE POC IS LTC SMITH, AV 680-3477;
BT
#3830

NNNN
FROM: CDR SSC FT BEN HARRISON IN //ATSG-DDN//
TO: DIR USACAA BETHESDA MD //CSCA-FO//
INFO DA WASH DC //DAMO-FDZ//
CDR TRADOC FT MONROE VA //ATCD-SE//
COMDT MPSCH FT MCCLELLAN AL //ATZN-MP-Z//
CDR USACAC FT LEAVENWORTH KS //ATZI-CAF-F/ATZL-CAI-S//
CDR THIRD US ARMY FT MCPHERSON GA //AFRD-PM//
CDR INTEL CEN FT HUACHUCA AZ //ATSI-HI//
CDR FORSCOM FT MCPHERSON GA //AFPM-RP//

UNCLAS

SUBJ: ENEMY PRISONER OF WAR AND CIVILIAN INTERNEE (EPW/CII) FACTORS
FOR FORCE ANALYSIS SIMULATION OF THEATER ADMINISTRATIVE AND
LOGISTICS SUPPORT (FASTALS)

A. MSG, HQ DA, DAMO-FDZ, 1816027Z Dec 85, SAB.
B. MSG, HQ TRADOC, ATCD-SE, 201300Z Dec 85, SAB.
C. MSG, CAA, CSCA-FO, 171506Z Jan 86, SUBJ: EPW/CII RATES FOR SWA
AND NEA.

1. REFERENCE A IDENTIFIED A HQ DA REQUIREMENT TO VALIDATE EPW/CII
RATES BEING USED IN FASTALS FOR NEA AND SWA. REFERENCE B TASKED THE

DISTR
ATZI-CS

MARY LYNN COOK
ATSG-DDN
X3813

Stephen F. Donovan, Dir, DCD

UNCLASSIFIED 161500Z APR 86
SSC TO ACCOMPLISH THIS ACTION.

2. THE NEW EPW CAPTURE RATES FOR NEA AND SWA ARE PROVIDED BELOW IN THE FORMAT SPECIFIED BY CONCEPTS ANALYSIS AGENCY IN REFERENCE C. THESE RATES HAVE BEEN REVIEWED BY THE COMBINED ARMS CENTER. DETAILED STUDY METHODOLOGY CAN BE FOUND IN THE FINAL REPORT CURRENTLY BEING WRITTEN BY THE STUDY TEAM.

A. NEA.
   INTENSE .0003
   MODERATE .0004
   REDUCED .0002
   RESERVE .0001

B. SWA.
   INTENSE .0003
   MODERATE .0004
   REDUCED .0002
   RESERVE .0001

3. CIVILIAN INTERNEES {CIS}.

A. SWA. THE NUMBER OF CIS FOR SWA IS A FUNCTION OF BOTH THE "IZE OF THE INDIGENOUS POPULATION OF THE GEOGRAPHICAL AREA OF
RESPONSIBILITY of US forces and the hostility level of that population. Therefore, it is necessary to estimate the number of CIS "off-line", rather than by FASTALS, unless modifications are made to the model. For the TAA-93 process, the expected number of CIS for the first 180 days is projected to be between 3,500 and 3,750.

B. NEA. The situation in NEA for CIS is similar to that for NATO. Therefore, for TAA-93, zero CIS should be assumed in NEA.

4. It should be noted that FASTALS considers only Army forces in theater. Because of this model characteristic, the number of EPWs expected to be captured by Marine Ground Troops will not be included in FASTALS workload output. It should also be noted that the Army has responsibility for all prisoners captured by military forces in SWA.

5. POC is MRS. MARY LYNN COOK, AV 699-3813.
1. Sampling:
   a. Geographical location: Korea.
   b. Period: June 25, 1950 - July 31, 1951 less Inchon Campaign (16 September - 24 November 1950) and other UN counteroffensive actions.
   c. Posture: Defensive (UN Forces).
   d. Force Size: Varies over sample period.
   e. No. of prisoners captured: Varies over sample period.
   f. Intensity of Conflict: Sample period was categorized by combat intensity (Intense, Moderate, Reduced, Reserve) by consulting historian.

2. Calculations. The EW rates are expressed as the number of EW's captured per combat soldier per day. They were derived by taking the weighted average of the periodic rates in each level of intensity of combat, except Reserve. No direct Reserve time was found in the sample selected, and the Reserve rate was calculated using the relationship between intensities now in FASIALS. The results are given below:

   Intense - .0003
   Moderate - .0004
   Reduced - .0002
   Reserve - .0001

3. Sensitivity Analysis. Using the same methodology as discussed in para 1 and 2 above, two other samples from the Korean War were evaluated to determine EW rates. The periods used and the resulting rates are given below.


   Intense - .0003
   Moderate - .0003
   Reduced - .0002
   Reserve - .0001

1 The data elements, UN force strength and number of EWs captured by period, were not available from only one source. The primary sources were the monograph by the Eighth Army historian, "The Handling of Prisoners of War During the Korean War," and the Black Series on Korea published by the Center for Military History. Gaps were filled from other references or found by interpolation.

Intense = .0002
Moderate = .0003
Ruduced = .0002
Reserve = .0000
1. Sample 1. Iraq - September 1943 - April 4, 1945

Derivation of these rates is given in classified part of this report which is on file at G-6.

2. Sample 2.


b. Period: September 10, 1944 to April 4, 1945 (207 days).


d. Force Size: 80,000 (Axis forces opposing U.S.) (derived from The Gothic Line and Handbook on German Military).

e. EPW Data: 4017 (U.S.).

f. Computation of composite rate:

\[
\frac{4017}{207} = 19.4058 \text{ EPW's per day}
\]

\[
\frac{19.4058}{80000} = .0002426
\]

g. Computation of intensity rates:

\[\text{(Determination of intensities)}\]

<table>
<thead>
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<th>Intense</th>
<th>Moderate</th>
<th>Reduced</th>
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<td>Sep. 10 = 10</td>
<td>12</td>
<td>12</td>
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<td>Oct. 10 = 10</td>
<td>12</td>
<td>12</td>
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<td>Nov. 10 = 12</td>
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<td>Dec. 1 = 4</td>
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<tr>
<td>Jan. 1 = 4</td>
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<td>Apr. 1 = 4</td>
<td>4</td>
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<td></td>
</tr>
</tbody>
</table>

\[\text{References:}\]

3. Army, Battle Casualties and Active Battles in World War II, Department of the Army.
4. W. Ernest F., Cohen, United States Military History, United States Army, Washington D.C.
\[
\left(\frac{28}{207}\right)x_1 + (1.34)\left(\frac{12}{207}\right)x_1 + (0.74)\left(\frac{167}{207}\right)x_1 = 0.0002426
\]
\[
0.8099516x_1 = 0.0002426
\]
\[
x_1 = 0.000300
\]
\[
x_2 = 0.000401
\]
\[
x_3 = 0.000222
\]
\[
x_4 = 0.000060
\]

(3) Rounded to four places:

\[
x_1 = 0.0003
\]
\[
x_2 = 0.0004
\]
\[
x_3 = 0.0002
\]
\[
x_4 = 0.0001
\]
Dr. Lowell Dyson  
U.S. Army Center of Military History  
Washington, D.C.

Dr. Bill Moorman  
Senior Historian, Retired  
U.S. Army Center of Military History  
Washington, D.C.

Mr. John McReynolds  
Eighth U.S. Army  
Korea

Mr. James Barnhart, Historian  
Eighth U.S. Army  
Korea

Dr. Jack Gifford  
Combat Studies Institute  
U.S. Army Command and General Staff College  
Ft. Leavenworth, Kansas

Dr. William Robertson  
Combat Studies Institute  
U.S. Army Command and General Staff College  
Ft. Leavenworth, Kansas

Mr. Edward Grega  
U.S. Army Military History Institute  
Carlisle Barracks, Pennsylvania

Mr. John Smith  
U.S. Army Corps of Engineers  
Ft. Ainsworth, Virginia

Mr. John Smith  
U.S. Army Corps of Engineers  
Ft. Ainsworth, Virginia


KEY PERSONNEL CONSULTED - SWA

Defense Intelligence Agency
Directorate of Research, Middle East Division
Bolling Air Force Base
Washington, D.C.

Dr. Ernest F. Fisher
U.S. Army Center of Military History
Washington, D.C.

Colonel David M. Glantz
Center for Land Warfare
U.S. Army War College
Carlisle Barracks, Pennsylvania

Dr. Jeffery Greenhut
U.S. Army Center of Military History
Washington, D.C.

Dr. Joseph Kip
Combat Studies Institute
Command and General Staff College
Ft. Leavenworth, Kansas

Mr. W. Hays Parks
Chief, International Law
Office of the Judge Advocate General of the Army
Washington, D.C.

Dr. Roger Spiller
Combat Studies Institute
Command and General Staff College
Ft. Leavenworth, Kansas

Third U.S. Army Staff
Ft. McPherson, Georgia
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