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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This paper describes and documents an improved version of the optimal sortie allocation model (OPTISA) previously presented in IDA Papers P-992 and P-993, published in December 1973. OPTISA is a model for computing allocations of general purpose aircraft to combat air support, airbase attack, and intercept missions. The mathematical problem is a two-side, zero-sum, multi-stage game with		

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20. continued

simultaneous moves at each stage. The revised OPTSA model includes a substantially improved game-solving procedure and a more detailed simulation of warfare between the opposing sides.

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PAPER P-1111

REVISED OPTSA MODEL

Volume 3: The OPTSA Print-Run Program

Lowell Bruce Anderson
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INSTITUTE FOR DEFENSE ANALYSES
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Chapter I

PRINT-RUN PROGRAM DESCRIPTION

A. PURPOSE OF THE PROGRAM

This volume describes a program designed expressly to be used in conjunction with the OPTSA model. Its purpose is to take allocations of Blue and Red general-purpose aircraft to the three missions (CAS, ABA, and INT) for each decision period in the war, and run them through the OPTSA assessment routine to determine and to print out a variety of quantities (e.g., number of aircraft and sorties of various kinds destroyed on each day by various means, values of the various MOEs on all intermediate days of the war, and levels of aircraft shelters and ground divisions on all intermediate days of the war). This new program is referred to as the "print-run" program; the regular OPTSA model is called the "game" program.

The game program takes certain inputs and a given measure of effectiveness and finds optimal strategies for allocation of Blue and Red aircraft--which involves taking a large number of different Blue/Red allocation-choice pairs and running each pair through the assessment routine to determine a payoff in the specified MOE. In the assessment routine, many quantities are computed but not stored. The variables holding these quantities are usually written over with new information. The print-run program outputs some of them.

If a pure strategy is optimal, the print-run program can be used to take the optimal strategy produced by the game program and run it back through the assessment routine to show exactly what will go on over the course of the war if the

optimal strategy is played. It will show the values of some of the MOEs that were not optimized. The print-run program does not accept randomized strategies as such, but each realization of a randomized strategy can be run separately.

This description of the OPTSA print-run program is not detailed. The program is intended to be used by a person familiar with the main OPTSA model and Volumes 1 and 2 of this paper.

B. THE COMPUTER PROGRAM

The computer program is operational on the CDC 6400 at IDA. It occupies 51,000 octal (equivalent to 21,000 decimal) 60-bit words of core, contains about 1,900 FORTRAN statements, and requires about 50 seconds to compile. The execution time for a 30-day war is about five seconds. Unlike the game program, it is very short because only one allocation combination is assessed--not thousands. The core usage is smaller because the strategy arrays have been deleted.

1. Program Structure and Segments

For a description of the game-program structure, the reader is referred to Volume 2, Chapter I. The overall structure of the print-run program is very similar--except that the game-solving subroutines and game and strategy arrays have been removed, print commands have been added to the assessment routine, and a printing subroutine has been added. The result is a main program and six subroutines. The names of the subroutines remain the same; several of the subroutines are, in fact, *exactly* the same as the corresponding ones in the game program. There are still two COMMON blocks; blank COMMON contains the same variables as in the game program except for the arrays of payoff game values and strategies, and COMMON block CAMVAR remains exactly the same as before. Instead of

calling a game-solving subroutine, the main program reads the allocations of Blue and Red aircraft for each period and calls the assessment routine. The assessment routine remains exactly the same, but commands have been inserted to print out variables as they are computed. The two premature stops caused by excessive iterations of Newton's method remain, though the other premature stop (caused by too small a game value added) is of course no longer applicable. Finally, a subroutine called PRINTS has been added. After the assessment has been performed for all days in the war, PRINTS is called. It prints all the variables that are arrays, indexed by day of the war that are stored in blank COMMON--including division inventory, divisions destroyed, aircraft inventory (by type), aircraft destroyed, shelters destroyed, FEBA position, and other variables.

Table 1 lists the segments of the print-run program, in order, with the function of each.

Table 1. SEGMENTS OF THE PRINT-RUN COMPUTER PROGRAM

Segment	Function
Program MAIN	Main Program calls CLRCOM and READ, sets extent of periods in war; then reads and prints Blue and Red aircraft allocations and calls CAM.
Subroutine CLRCOM()	Initializes certain variables in blank COMMON to zero--exactly the same as in the game program.
Subroutine READ	Reads and prints the input data, except for the aircraft allocations--exactly the same as in the game program.
Subroutine CAM()	Performs assessment and prints out various intermediate variables as they are computed.
Subroutine CVFX()	Performs interpolations for use in CAM--exactly the same as in the game program.
Subroutine CAMCLR	Each day, initializes certain variables in CAM to zero--exactly the same as in the game program.
Subroutine PRINTS	Prints certain arrays in blank COMMON, for all days in the war.

2. Input

The print-run program is designed to accept the input deck to the regular game program (described in detail in Vol. 2, Ch. II), with four additional cards for the aircraft allocation at the end. Variable definitions remain unchanged. The sole difference is that variables $PROP_{B(3,3)}$ and $PROPR_{(3,3)}$ --the
MS,IPD MS,IPD
proportions of Blue or Red GP aircraft assigned to mission MS in period IPD--are input (not computed) variables. They are input on four cards, as follows:

- Card 1: $PROP_{B(MS,1)}$, MS=1,3. Three entries giving the proportion of Blue GP aircraft to CAS, ABA, and INT (resp.) in period 1.
- Card 2: $PROP_{B(MS,IPD)}$, MS=1,3, IPD=2,3. Six entries--the first three giving the Blue proportions to CAS, ABA, and INT for period 2; the second three for period 3.
- Card 3: $PROPR_{(MS,1)}$, MS=1,3--like Card 1, but for Red.
- Card 4: $PROPR_{(MS,IPD)}$, MS=1,3, IPD=2,3--like Card 2, but for Red.

Each entry occupies a field that is 10 characters wide. The input format is 8F10.3. A two-period war is considered as the last two periods of a three-period war; hence, the desired allocations are input on cards 2 and 4 only, though four cards must still be input.

3. Output

The output of the print-run program is in three parts. First, the input variables are output (exactly as in Vol. 2, Ch. V, Sec. B) followed by the aircraft allocation. Second, variables that give intermediate results (e.g., aircraft levels, by type and mission; aircraft killed, by type and mission; average detection and kill parameters; etc., that are recomputed each day) are printed as they are computed. The print commands for these have been inserted into game-program subroutine CAM. The variables printed are listed in Figure 1 (and defined in

<p><u>Blue Sorties and Aircraft at Beginning of Day (ID)</u></p> <p>BS(TY,MS) BA(TY,MS) BANAS BANF(TY,MS)</p> <p><u>Red Sorties and Aircraft at Beginning of Day (ID)</u></p> <p>RS(TY,MS) RA(TY,MS) RANAS RANF(TY,MS)</p> <p><u>Attrition to Blue in Air-to-Air Interaction</u></p> <p>IBIRA,IBARI RATS,RAISI BITS,BITSI VRIDBA(2) VRADBI(4) BSENG(TY,MS) (MS=1,2--attack missions only) DENOM BPENG(2) BSKAA(TY,MS) BAKAA(TY,MS) BSFB(TY,MS) BAFB(TY,MS) BS(TY,MS) BA(TY,MS)} (After air-to-air losses are subtracted out)</p>	<p><u>Attrition to Red in Air-to-Air Interaction</u></p> <p>BATS,BATSI RITS,RITSI VIDRA(2) VBADRI(4) RSENG(TY,MS) (MS=1,2--attack missions only) DENOM RPENG(2) RSKAA(TY,MS) RAKAA(TY,MS) RSFB(TY,MS) RS(TY,MS) RA(TY,MS)} (After air-to-air losses are subtracted out)</p> <p><u>Blue Losses to Enemy SAMs</u></p> <p>BSL(TY,MS) BAL(TY,MS) BS(TY,MS) BA(TY,MS)} (After losses are subtracted out)</p> <p><u>Red Losses to Enemy SAMs</u></p> <p>RSL(TY,MS) RAL(TY,MS) RS(TY,MS) RA(TY,MS)} (After losses are subtracted out)</p> <p>(concluded on next page)</p>
<p>*Variables are listed in the order output, which is very close to the order they are computed in the program; one line of the figure corresponds to one line of output.</p> <p>Variable definitions appear in Vol. 2, Ch. III, Sec. F, and are listed alphabetically in the appendix to Vol. 2.</p> <p>The indexing variable TY is declared integer.</p> <p>Most dimensioned variables for the ABA interaction are indexed by (TY,MS), aircraft type and mission; they are printed six to a line, in the following order: GP-CAS, GP-ABA, GP-INT, SP-CAS, SP-ABA, and SP-INT.</p> <p>Many dimensioned variables for the ABA interaction are indexed by kind of aircraft (KBA or KRA); they are printed four to a line, in the following order: GP, SP-CAS, SP-ABA, and SP-INT.</p> <p>ID, the day of the war, appears at the left-hand side of each line.</p> <p>Some variables in the air-to-air interaction might be inactive, depending on the method used to compute attritions; they are printed anyway.</p> <p>In the ABA interaction, only those variables encountered in the particular attack mode chosen are printed.</p> <p>A sample output of the variables (in the order listed in this figure) appears as Sec. B of Ch. III (below).</p>	

Figure 1. VARIABLES IN CAM THAT ARE OUTPUT*

Blue Airbase--Blue Losses Caused by Red Attack Mode (IRABA)	Red Airbase--Red Losses Caused by Blue Attack Mode (IBABA)
<p>BAVUL (KBA) ABQRA, ABQRAS, BSHEL, BSHELL BAVULT, ABQRAN, BSHELL BPOPS (KBA) BPOPS (KBA) BPOPS (KBA) BTOTS, BTOTNS, BTOT PRABA(2), RATP VRDBS, VRKBS, VRDBNS, VRKBNS</p> <p><u>Red Attack Mode 1:</u> TERMS1, TERMS2, TERMN1, TERMN2 BAKS, BSHELK(ID), BAKNS</p> <p><u>Red Attack Mode 2:</u> IB2EX CS0, CS1, CS CNO, CNI, CN C1, Q0, Q, CS2 BAKS, BSHELK(ID), BAKNS</p> <p><u>Red Attack Mode 3:</u> T, TERM1, TERM2, TERMS, TERMNS BAKS, BSHELK(ID), BAKNS</p> <p><u>Red Attack Mode 4:</u> B4AN, B4AS, B4NS, B4SN X4N, X4NS, X4SN, X4S X4n, X4NS, X4SN, X4S A1N, A1S, A2N, A2S, A2, A3, A4, A5, A6 IB4EX NTN, Q TERMS, TERMNS BAKS, BSHELK(ID), BAKNS</p> <p>If Very Few or No Blue Aircraft or Red Attackers: IB4EX (At value 40) BAKS, BSHELK(ID), BAKNS (All at value zero)</p>	<p>RAVUL (KRA) ARQRA, ARQRAS, RSHEL, RSHELL RAVULT, ARQRAN, RSHELL RPOPS (KRA) RPOPS (KRA) RPOPS (KRA) RTOTS, RTOTNS, RTOT PBABA(2), BATP VBDRS, VBKRS, VBDRNS, VBKRNS</p> <p><u>Blue Attack Mode 1:</u> TERMS1, TERMS2, TERMN1, TERMN2 RAKS, RSHELK(ID), RAKNS</p> <p><u>Blue Attack Mode 2:</u> IR2EX CS0, CS1, CS CNO, CNI, CN C1, Q0, Q, CS2 RAKS, RSHELK(ID), RAKNS</p> <p><u>Blue Attack Mode 3:</u> T, TERM1, TERM2, TERMS, TERMNS RAKS, RSHELK(ID), RAKNS</p> <p><u>Blue Attack Mode 4:</u> R4AN, R4AS, R4NS, R4SN X4N, X4NS, X4SN, X4S X4n, X4NS, X4SN, X4S A1N, A1S, A2N, A2S, A2, A3, A4, A5, A6 IR4EX NTN, Q TERMS, TERMNS RAKS, RSHELK(ID), RAKNS</p> <p>If Very Few or No Red Aircraft or Blue Attackers: IR4EX (At value 40) RAKS, RSHELK(ID), RAKNS (All at value zero)</p> <p><u>Total Aircraft Destruction for Day (ID)</u> BTOTS, BTOTNS, BTOT XS, XNS BAD(KBA) RTOTS, RTOTNS, RTOT XS, XNS RAD(KRA)</p> <p>(When QRA are added in)</p> <p>(When QRA are added in)</p> <p>(Not printed if IB2EX=21) (Not printed if IB2EX=22) (Not printed if IB2EX=21 or 22)</p> <p>(After these variables have been forced to be between 0 and 1)</p> <p>(Only if IB4EX=30) (Printed twice if IB4EX=30)</p> <p>(Redefined for Red)</p>

Figure 1 (concluded)

Vol. 2, Ch. III, Sec. F). Third, variables that have a day index are printed for all days in the war. A history of a desired variable over the course of the war can thus be found. These variables are stored in blank COMMON and are printed out by subroutine PRINTS after the assessment routine has been fought for the whole length of the war. Figure 2 lists these variables in the order that they are printed out. This section of output is preceded by a second printing of the aircraft allocations.

In the second part of the output, four working variables have been put into subroutine CAM in ABA modes 2 and 4 to show the outcome of the internal optimization used to determine the proportion of attack passes to attack sheltered aircraft. These variables are explained in Table 2. Variables IB4EX and IR4EX are also used if the check on total aircraft to be attacked is active, regardless of attack mode.

Sample output appears in Chapter III of this volume (below). The program listing clarifies the exact sequence of output.

Variable and Array Indices	Brief Description	Variable and Array Indices	Brief Description
BDA(1, ID)	Blue type-1 divisions added	RDA(1, ID)	Red type-1 divisions added
BDA(2, ID)	Blue type-2 divisions added	RDA(2, ID)	Red type-2 divisions added
BDA(3, ID)	Blue type-3 divisions added	RDA(3, ID)	Red type-3 divisions added
BDI(1, ID)	Blue type-1 division inventory	RDI(1, ID)	Red type-1 division inventory
BDI(2, ID)	Blue type-2 division inventory	RDI(2, ID)	Red type-2 division inventory
BDI(3, ID)	Blue type-3 division inventory	RDI(3, ID)	Red type-3 division inventory
BDD(1, ID)	Blue type-1 divisions destroyed	RDD(1, ID)	Red type-1 divisions destroyed
BDD(2, ID)	Blue type-2 divisions destroyed	RDD(2, ID)	Red type-2 divisions destroyed
BDD(3, ID)	Blue type-3 divisions destroyed	RDD(3, ID)	Red type-3 divisions destroyed
BGF(ID)	Blue ground firepower delivered	RGF(ID)	Red ground firepower delivered
BAA(1, ID)	Blue type-1 aircraft added	RAA(1, ID)	Red type-1 aircraft added
BAA(2, ID)	Blue type-2 aircraft added	RAA(2, ID)	Red type-2 aircraft added
BAA(3, ID)	Blue type-3 aircraft added	RAA(3, ID)	Red type-3 aircraft added
BAA(4, ID)	Blue type-4 aircraft added	RAA(4, ID)	Red type-4 aircraft added
BAI(1, ID)	Blue type-1 aircraft inventory	RAI(1, ID)	Red type-1 aircraft inventory
BAI(2, ID)	Blue type-2 aircraft inventory	RAI(2, ID)	Red type-2 aircraft inventory
BAI(3, ID)	Blue type-3 aircraft inventory	RAI(3, ID)	Red type-3 aircraft inventory
BAI(4, ID)	Blue type-4 aircraft inventory	RAI(4, ID)	Red type-4 aircraft inventory
BAD(1, ID)	Blue type-1 aircraft destroyed	RAD(1, ID)	Red type-1 aircraft destroyed
BAD(2, ID)	Blue type-2 aircraft destroyed	RAD(2, ID)	Red type-2 aircraft destroyed
BAD(3, ID)	Blue type-3 aircraft destroyed	RAD(3, ID)	Red type-3 aircraft destroyed
BAD(4, ID)	Blue type-4 aircraft destroyed	RAD(4, ID)	Red type-4 aircraft destroyed
SHELBI(ID)	Blue shelter inventory	SHELRI(ID)	Red shelter inventory
BSHELK(ID)	Blue shelters destroyed	RSHELK(ID)	Red shelters destroyed
BAF(ID)	Blue air firepower delivered	RAF(ID)	Red air firepower delivered
BF(ID)	Blue total firepower delivered	RF(ID)	Red total firepower delivered
		FEBA(ID)	FEBA position
		CBF(ID)	Cumulative Blue total firepower delivered
		CRF(ID)	Cumulative Red total firepower delivered
		CBAF(ID)	Cumulative Blue air firepower delivered
		CRAF(ID)	Cumulative Red air firepower delivered

*Variables are listed in the order output, which is not the same order as they are computed in the program. More detailed definitions appear in Vol. 1, Ch. III. Each variable is output for all days in the war, before the next variable is started; ID is the day index. If certain variables are not used (e.g., special-purpose aircraft), they are still output--as zero.

Figure 2. VARIABLES IN BLANK COMMON THAT ARE OUTPUT*

Table 2. NEW WORKING VARIABLES IN SUBROUTINE CAM

Variable Name	Place Appearing in Subroutine CAM	Value	Meaning
IB2EX	ABA of Blue Air-bases, Red Attack Mode 2	11	Since a few Red attackers can kill all the Blue sheltered aircraft, assign 0.9999 of them to attack Blue nonsheltered aircraft.
		12	Since a few Red attackers can kill all the Blue nonsheltered aircraft, assign 0.9999 of them to attack Blue shelters.
		20	Perform the optimization to determine proportion of Red passes to attack Blue shelters.
		21	Very few or no Blue sheltered aircraft; hence, Red attacks nonsheltered aircraft only.
		22	Very few or no Blue nonsheltered aircraft; hence, Red attacks shelters only.
		IB4EX	ABA of Blue air-bases, Red Attack Mode 4
12	Very few or no Blue nonsheltered aircraft; hence, Red attacks only shelters.		
21	Attrition function derivatives indicate that proper Red policy is to attack Blue nonsheltered aircraft only.		
22	Attrition function derivatives indicate that proper Red policy is to attack Blue shelters only.		
30	Internal optimization is performed to determine proportion of Red passes to attack Blue shelters.		
40	Very few or no Blue aircraft or Red attack passes; hence, nothing is killed (regardless of Red attack mode).		
IR2EX	ABA of Red air-bases, Blue Attack Mode 2	--	(Like IB2EX, <i>mutatis mutandis</i> .)
IR4EX	ABA of Red air-bases, Blue Attack Mode 4	--	(Like IB4EX, <i>mutatis mutandis</i> , including the value 40.)

Chapter II

COMPUTER PROGRAM LISTING

A. PROGRAM MAIN

PROGRAM MAIN(INPUT,OUTPUT,TAPE5=INPUT,TAPE6=OUTPUT)	MAIN	00002
C OPTSA II	MAIN	00003
C PROGRAM TO PRINT DAILY RESULTS FROM AN INPUT STRATEGY PAIR	MAIN	00004
CDUP=BEG	MAIN	00005
COMMON NKBD,NKMD,NKBA,NKRA	MAIN	00006
COMMON NID	MAIN	00007
COMMON NPD,IDL1,IDU1,IDL2,IDU2,IDL3,IDU3	MAIN	00008
COMMON IR0,JR0,KR0	MAIN	00009
COMMON IPRV,IPRU	MAIN	00010
COMMON IREPLB,IREPLR	MAIN	00011
COMMON BDA(3,90),ROA(3,90)	MAIN	00012
COMMON BAA(4,90),RAA(4,90)	MAIN	00013
COMMON DBQRA,DMURA	MAIN	00014
COMMON SHEL(90),SHEL(90),PBSHEL,PRSHEL	MAIN	00015
COMMON BSHELK(90),RSHELK(90)	MAIN	00016
COMMON FBD(3),FHD(3),FBA(2),FRA(2)	MAIN	00017
COMMON IDBSRC,IDRSRC	MAIN	00018
COMMON SORRB1(2,3),SORRB2(2,3),SORRR1(2,3),SORRR2(2,3)	MAIN	00019
COMMON IAA,XNBAA,XNRAA,BALPHA(2,2),RALPHA(2,2)	MAIN	00020
COMMON BIDRA(2,4),BADRI(4,2),RIDBA(2,4),RADBI(4,2)	MAIN	00021
COMMON BIKRA(2,4),BAKRI(4,2),RIKBA(2,4),RAKBI(4,2)	MAIN	00022
COMMON BSAMZR(2,2),RSAMZB(2,2)	MAIN	00023
COMMON IRSSH,BFRAC1,BFRAC2,RFRA(1),RFRA(2),FBSK,FRSK	MAIN	00024
COMMON MPASS(2),RPASS(2)	MAIN	00025
COMMON IBABA,IMABA,XNBAB,XNRAB,MPARK,RPARK	MAIN	00026
COMMON BDRS(2),BDRNS(2),BKRS(2),BKRNS(2)	MAIN	00027
COMMON RDBS(2),RDBNS(2),RKBS(2),RKBNS(2)	MAIN	00028
COMMON B4B,B4AL,B4AN1,B4AN2,B4AS1,B4AS2,B4NS1,B4NS2,B4SN1,B4SN2	MAIN	00029
COMMON R4B,R4AL,R4AN1,R4AN2,R4AS1,R4AS2,R4NS1,R4NS2,R4SN1,R4SN2	MAIN	00030
COMMON EPS4	MAIN	00031
COMMON NFRFA,FRFA(15),FA(15)	MAIN	00032
COMMON NFRBD,FRBD(15),BD(15)	MAIN	00033
COMMON NFRRD,FRRD(15),RD(15)	MAIN	00034
COMMON NB,NR	MAIN	00035
COMMON PB(20,3),PR(20,3)	MAIN	00036
COMMON PROPB(3,3),PROPR(3,3)	MAIN	00037
COMMON MOE,MOE1	MAIN	00038
COMMON BCWGT,B5WGT(3),BQWGT(2),HCWGT,RSWGT(3),RQWGT(2)	MAIN	00039
COMMON GVA	MAIN	00040
C	MAIN	00041
COMMON BDI(3,90),RDI(3,90)	MAIN	00042
COMMON BDD(3,90),RDD(3,90)	MAIN	00043
COMMON BGF(90),RGF(90)	MAIN	00044
COMMON BAI(4,90),RAI(4,90)	MAIN	00045
COMMON BAD(4,90),RAD(4,90)	MAIN	00046
COMMON BAF(90),RAF(90)	MAIN	00047
COMMON BF(90),RF(90)	MAIN	00048
COMMON FEBA(90)	MAIN	00049
COMMON CBF(90),CRF(90)	MAIN	00050
COMMON CBAF(90),CRAF(90)	MAIN	00051
C	MAIN	00052
CDUP=END	MAIN	00053
CALL CLRCOM(1,1,90)	MAIN	00054
CALL READ	MAIN	00055
IDL1=1	MAIN	00056
IDU1=IDL2-1	MAIN	00057
IDU2=IDL3-1	MAIN	00058

C	IDU3=NID	MAIN	00059
C	ITERATION LOOP CAN GO HERE	MAIN	00060
C		MAIN	00061
	READ 55,((PROPB(MS,IPD),MS=1,3),IPD=1,1)	MAIN	00062
	READ 55,((PROPB(MS,IPD),MS=1,3),IPD=2,3)	MAIN	00063
	READ 55,((PROPB(MS,IPD),MS=1,3),IPD=1,1)	MAIN	00064
	READ 55,((PROPB(MS,IPD),MS=1,3),IPD=2,3)	MAIN	00065
55	FORMAT(8F10,3)	MAIN	00066
	MOT=6	MAIN	00067
	WRITE(MOT,156)	MAIN	00068
156	FORMAT(1H1,20HSTRATEGIES, BY PERIOD /1H ,15X, 10H BLUE ,30X,	MAIN	00069
1	6H RED /1H ,30H CAS ABA INT ABA INT ,10X,	MAIN	00070
2	30H CAS ABA INT)	MAIN	00071
	DO 57 IPD=1,3	MAIN	00072
	WRITE(MOT,56) IPD, (PROPB(MS,IPD),MS=1,3), (PROPR(MS,IPD),MS=1,3)	MAIN	00073
56	FORMAT(1H ,12,3F10,4,10X,3F10,4)	MAIN	00074
57	CONTINUE	MAIN	00075
	WRITE(MOT,1)	MAIN	00076
1	FORMAT(1H1/)	MAIN	00077
	CALL CAM(1,NIU)	MAIN	00078
9	CONTINUE	MAIN	00079
C		MAIN	00080
C	ITERATION LOOP CAN GO HERE	MAIN	00081
C		MAIN	00082
C		MAIN	00083
	9999 CONTINUE	MAIN	00084
	END	MAIN	00085
		MAIN	00086

B. SUBROUTINE CLRCOM

Subroutine CLRCOM is the same as in the game program (a listing appears in Vol. 2, Ch. IV, Sec. B).

C. SUBROUTINE READ

Subroutine READ is the same as in the game program (a listing appears in Vol. 2, Ch. IV, Sec. C).

D. SUBROUTINE CAM

SUBROUTINE CAM(IDL,IOU)	CAM	00002
C OPTSA II	CAM	00003
C PRINTS DAILY RESULTS FROM AN INPUT STRATEGY PAIR	CAM	00004
CUUDDIM		
COMMON NKBU,NKKU,NKRA,NKKA	MAIN	
COMMON NIU	MAIN	
COMMON NPU,IDL1,IOU1,IDL2,IOU2,IDL3,IOU3	MAIN	
COMMON IRL,JRU,KRU	MAIN	
COMMON IPKV,IPKU	MAIN	
COMMON IREPLR,IREPLR	MAIN	
COMMON BDA(3,90),KDA(3,90)	MAIN	
COMMON BAA(4,90),KAA(4,90)	MAIN	
COMMON UBURA,UBURA	MAIN	
COMMON SHEL(90),SHELK(90),PBSEL,PMSHEL	MAIN	
COMMON BSHELK(90),MSHELK(90)	MAIN	
COMMON FBU(3),FRL(3),FBA(2),FRA(2)	MAIN	
COMMON IDBRC,IOHRC	MAIN	
COMMON SORR1(2,3),SORR2(2,3),SORR1(2,3),SORR2(2,3)	MAIN	
COMMON IAA,XNDAA,XNHAA,BALPHA(2,2),KALPHA(2,2)	MAIN	
COMMON BUDR(2,4),BADR(4,2),MIDR(2,4),MAUR(4,2)	MAIN	
COMMON BIKR(2,4),BKRI(4,2),MIBR(2,4),MAKI(4,2)	MAIN	
COMMON BSAMZ(2,2),KSAMZ(2,2)	MAIN	
COMMON IN3DH,DFMAC1,DFRAC2,REFRAC1,REFRAC2,FBCK,FRSK	MAIN	
COMMON BPASS(2),KPASS(2)	MAIN	
COMMON IBABA,IBABA,XNDAB,XNHAB,BPAB,KPAB	MAIN	
COMMON BDRS(2),BLRNS(2),DKRS(2),KKNNS(2)	MAIN	
COMMON KUBS(2),KUBNS(2),KUBS(2),KUBNS(2)	MAIN	
COMMON B4B,B4AL,B4AN1,B4AN2,B4AS1,B4AS2,B4NS1,B4NS2,B4SN1,B4SN2	MAIN	
COMMON K4B,K4AL,K4AN1,K4AN2,K4AS1,K4AS2,K4NS1,K4NS2,K4SN1,K4SN2	MAIN	
COMMON EPS	MAIN	
COMMON NFKFA,FKFA(15),FA(15)	MAIN	
COMMON NFKRU,FKRU(15),RU(15)	MAIN	
COMMON NFKRU,FKRU(15),RD(15)	MAIN	
COMMON N8,IR	MAIN	
COMMON PH(20,3),PK(20,3)	MAIN	
COMMON PROPB(3,3),PROPK(3,3)	MAIN	
COMMON MOE,MOE1	MAIN	
COMMON BCRU1,B5WGT(2),KRWGT(2),RCWGT,RSWGT(3),RWGT(2)	MAIN	
COMMON GVA	MAIN	
C		
COMMON BU1(3,90),KDU(3,90)	MAIN	
COMMON BDU(3,90),KDU(3,90)	MAIN	
COMMON BGF(90),KGF(90)	MAIN	
COMMON BAI(4,90),KAI(4,90)	MAIN	
COMMON BAU(4,90),KAU(4,90)	MAIN	
COMMON BAF(90),KAF(90)	MAIN	
COMMON BF(90),KF(90)	MAIN	
COMMON FEBA(90)	MAIN	
COMMON CHF(90),KCF(90)	MAIN	
COMMON CRAF(90),KRAF(90)	MAIN	
C		
CUUDDIM	CAM	00005
C	CAM	00006
COMMON/CAMV4/ SURR(2,3),SORR(2,3)	CAM	00007
COMMON/CAMV4/ BA(2,3),KA(2,3),BS(2,3),KS(2,3)	CAM	00008
COMMON/CAMV4/ BAKAA(2,3),RAKAA(2,3),BSKAA(2,3),HAKAA(2,3)	CAM	00009
COMMON/CAMV4/ BAL(2,3),KAL(2,3),BSL(2,3),KSL(2,3)	CAM	00010

COMMON/CAMVAR/	VBDIPA(2),VBDRI(4),VRIDRA(2),VRADHI(4)	CAM	00011
COMMON/CAMVAR/	BSENG(2,2),RSENG(2,2)	CAM	00012
COMMON/CAMVAR/	BPENG(2),RPENG(2)	CAM	00013
COMMON/CAMVAR/	BSFB(2,3),HAFB(2,3),RSFB(2,3),RAFB(2,3)	CAM	00014
COMMON/CAMVAR/	BAVUL(4),RAVUL(4),PRABA(2),PKABA(2)	CAM	00015
COMMON/CAMVAR/	BPOPS(4),BPOPNS(4),RPOPS(4),RPOPNS(4)	CAM	00016
COMMON/CAMVAR/	VHDQS,VBDHNS,VBKRS,VRKRS	CAM	00017
COMMON/CAMVAR/	VHDQS,VRDHNS,VRKBS,VRKBS	CAM	00018
INTEGER	TY,TYH,TYR	CAM	00019
DIMENSION	BANF(2,3),RANF(2,3)	CAM	00020
DIMENSION	L(105,5)	CAM	00021
C	THESE DATA STATEMENTS CONTAIN VARIABLE NAMES TO BE PRINTED ON THE	CAM	00022
C	APPROPRIATE LINE	CAM	00023
C	DATA FRAGMENT 1	CAM	00024
DATA(L(I),I=	1,105)/ 4HBS(T,4HBA(T,4HRANA,4HBANF,4HRS(T,4HRA(T,	CAM	00025
44HRANA,4HRANF,4HIBIR,4HRATS,4HBITS,4HV2ID,4HV2AD,4HMBSEN,4HDENO,		CAM	00026
44HHPEN,4HBSKA,4HBAKA,4HRSFB,4HBAFB,4HBS(T,4HBA(T,4HBATS,4HRITS,		CAM	00027
44HVBIID,4HV2AD,4HRSEN,4HDENO,4HRPEN,4HRSKA,4HRAKA,4HRSFB,4HRAFB,		CAM	00028
44HRS(T,4HRA(T,4HBSL(,4HBAL(,4HBS(T,4HBA(T,4HBSL(,4HRAL(,4HRS(T,		CAM	00029
44HRA(T,4HBA(VI),4HBA(VI),4HBA(VI),4HBPPOP,4HBPPOP,4HBPPOP,4HBTUT,4HPRAB,		CAM	00030
44HIB2E,4HCS0,4HCN0,4HCL,Q,4HIB2E,4HCN0,4HIB2E,4HCS0,4HBAAN,		CAM	00031
44HX4N,4HX4N,4HIB4E,4HNTN,4HTERM,4HTERM,4HIB4E,4HTERM,4HIB4E,		CAM	00032
44HTERM,4HIB4E,4HRAVI,4HRAVI,4HRRPOP,4HRRPOP,4HRRPOP,4HRRPOP,4HRTOT,		CAM	00033
44HBPAB,4HIR2E,4HCS0,4HCN0,4HCL,Q,4HIR2E,4HCN0,4HIR2E,4HCS0,		CAM	00034
44HR4AN,4HX4N,4HX4N,4HIR4E,4HNTN,4HTERM,4HTERM,4HIR4E,4HTERM,		CAM	00035
44HIR4E,4HTERM,4HIB4F,4HRTOT,4HXS,X,4HBAID,4HRTOT,4HXS,X,4HRAD(/		CAM	00036
C	DATA FRAGMENT 2	CAM	00037
DATA(L(I),I=106,210)/ 4HY,MS,4HY,MS,4HS ,4H(TY,4HY,MS,4HY,MS,		CAM	00038
44HS ,4H(TY,4HA,IR,4H,RAT,4H,BIT,4HBA(T,4HRI(K,4HG(TY,4HM		CAM	00039
44HG(TY,4HA(TY,4HA(TY,4H(TY,4H(TY,4HY,MS,4HY,MS,4H,BAT,4H,RII,		CAM	00040
44HRA(TY,4HRI(K,4HG(TY,4HM ,4HG(TY,4HA(TY,4HA(TY,4H(TY,4H(TY,		CAM	00041
44HY,MS,4HY,MS,4HTY,M,4HTY,M,4HY,MS,4HY,MS,4HTY,M,4HTY,M,4HY,MS,		CAM	00042
44HY,MS,4HL(KR,4HLT,A,4HS(KR,4HNS(K,4HS(KR,4HNS(K,4HS,BT,4HA(TY,		CAM	00043
44HX ,4HCS1,4HCN1,4H0,Q,4HX ,4HCN1,4MX ,4HCS1,4H,B4A,		CAM	00044
44HX4NS,4HX4NS,4HX ,4H0 ,4HS,TE,4HS,TE,4MX ,4HS,TE,4HX		CAM	00045
44HS,TE,4HX ,4HL(KR,4HLT,A,4HS(KR,4HNS(K,4HS(KR,4HNS(K,4HS,RT,		CAM	00046
44HA(TY,4HX ,4HCS1,4HCN1,4H0,Q,4HX ,4HCN1,4MX ,4HCS1,		CAM	00047
44H,R4A,4HX4NS,4HX4NS,4HX ,4H0 ,4HS,TE,4MS,TE,4HX ,4HS,TE,		CAM	00048
44HX ,4HS,TE,4HX ,4HS,BT,4HNS ,4HKB,A,4MS,RT,4HNS ,4HKRA,/		CAM	00049
C	DATA FRAGMENT 3	CAM	00050
DATA(L(I),I=211,315)/ 4H) ,4H) ,4H) ,4H) ,4H) ,4H) ,		CAM	00051
44H) ,4HMS) ,4HARI ,4HS1 ,4HS1 ,4HYI) ,4MAT) ,4H,MS) ,4H) ,		CAM	00052
44H) ,4H,MS) ,4H,MS) ,4HMS) ,4HMS) ,4H) ,4H) ,4HS1 ,4HS1 ,		CAM	00053
44HYI) ,4HAT) ,4H,MS) ,4H) ,4H) ,4H,MS) ,4H,MS) ,4HMS) ,4HMS) ,		CAM	00054
44H) ,4H) ,4HSJ ,4HSJ ,4H) ,4H) ,4HS) ,4HS) ,4H) ,		CAM	00055
44H) ,4HA) ,4HBA,4HA) ,4HBA) ,4HA) ,4HRA) ,4HOTNS,4H) ,RA,		CAM	00056
44H) ,4HCS ,4HCN ,4HCS2 ,4H) ,4HCN ,4H) ,4HCS ,4HS,B4,		CAM	00057
44H,X4S,4H,X4S,4H) ,4H) ,4HRMNS,4HRMNS,4H) ,4HRMNS,4H) ,		CAM	00058
44HRMNS,4H) ,4HAJ ,4HRQRA,4HAJ ,4HRA) ,4HA) ,4HRA) ,4HOTNS,		CAM	00059
44H) ,BA,4H) ,4HCS ,4HCN ,4HCS2 ,4H) ,4HCN ,4H) ,4HCS ,		CAM	00060
44HS,R4,4H,X4S,4H,X4S,4H) ,4H) ,4HRMNS,4HRMNS,4H) ,4HRMNS,		CAM	00061
44H) ,4HRMNS,4H) ,4HOTNS,4H) ,4HID) ,4HOTNS,4H) ,4HID)/		CAM	00062
C	DATA FRAGMENT 4	CAM	00063
DATA(L(I),I=316,420)/ 44*1H ,4HN,BS,4*1H ,4H,BTO,4HTP ,R*1H ,		CAM	00064
44HNS,B,4HN,X4,4HN,X4,I0*1H ,4HN,RS,4*1H ,4H,RTO,4HTP ,8*1H ,		CAM	00065
44HNS,R,4HN,X4,4HN,X4,9*1H ,4H,BTO,4H) ,4HKB,A=,4H,RTO,1H ,4HKRA=/		CAM	00066
C	DATA FRAGMENT 5	CAM	00067
DATA(L(I),I=421,525)/ 44*1H ,4HHEL1,4*1H ,4HT ,9*1H ,4H4SN ,		CAM	00068

X2*4HS	,10*1H ,4MHFL1,4*1H ,4HT	,9*1H ,4M4SN ,2*4HS	,9*1H ,	CAM	00069
X 4HT	,4H ,4M1,4 ,4HT	,4H ,4M1,4	/	CAM	00070
F14(Q) =	A2-A3*ALOG(A4)*A4**Q-A5*ALOG(A6)*A6**Q			CAM	00071
F24(Q) =	-A3*(ALOG(A4)**2)*A4**Q-A5*(ALOG(A6)**2)*A6**Q			CAM	00072
MOT=6				CAM	00073
12	FORMAT(1H ,15,5X,5A4,10X,1X,6F13.5)			CAM	00074
13	FORMAT(1H ,15,5X,5A4,10X,1X,2F13.5,13X,2F13.5)			CAM	00075
14	FORMAT(1H ,15,5X,5A4,10X,1X,18,5X,5F13.5)			CAM	00076
15	FORMAT(1H ,15,5X,5A4,10X,1X,18,5X,1R,5X,4F13.5)			CAM	00077
25	FORMAT(1H ,15,5X,30HBAKS,RSHELK(ID),RAKNS		,1X,6F13.5)	CAM	00078
26	FORMAT(1H ,15,5X,30HBAKS,RSHELK(ID),RAKNS		,1X,6F13.5)	CAM	00079
31	FORMAT(1H ,15,5X,30HABQRA,ABQRAS,RSHEL,RSHEL1		,1X,6F13.5)	CAM	00080
32	FORMAT(1H ,15,5X,30HVRDAS,VRKBS,VRDANS,VRKBNS		,1X,6F13.5)	CAM	00081
33	FORMAT(1H ,15,5X,30HTERMS1,TERMS2,TERMN1,TEMWN2		,1X,6F13.5)	CAM	00082
34	FORMAT(1H ,15,5X,30HT,TERM1,TERM2,TERMS,TERMS		,1X,6F13.5)	CAM	00083
35	FORMAT(1H ,15,5X,30HAIN,A1S,A2N,A2S,A2,A3,A4,A5,A6		,1X,6F13.5/1H ,	CAM	00084
	1 40X,1X, 5F13.5)			CAM	00085
36	FORMAT(1H ,15,5X,30HARQRA,ARQRAS,RSHEL,RSHEL1		,1X,6F13.5)	CAM	00086
37	FORMAT(1H ,15,5X,30HVDRS,VBKRS,VBORNS,VBKRNS		,1X,6F13.5)	CAM	00087
	CALL CLRCOM(3,IDL,IDU)			CAM	00088
C				CAM	00089
C	-- DO LOOP ON ID			CAM	00090
C				CAM	00091
	DO 3000 ID=IDL,IUU			CAM	00092
	CALL CAMCLR			CAM	00093
C				CAM	00094
C	-- STARTING DIVISION INVENTORY FOR ID -- B AND R			CAM	00095
C				CAM	00096
	IF (ID=1) 1510,1510,1520			CAM	00097
1510	DO 1512 KBD=1,NKBD			CAM	00098
1512	BDI(KBD, ID) = BDA(KBD, ID)			CAM	00099
	DO 1514 KRD=1,NKRD			CAM	00100
1514	RDI(KRD, ID) = RDA(KRD, ID)			CAM	00101
	GO TO 1600			CAM	00102
1520	IDM1 = ID-1			CAM	00103
	DO 1522 KBD=1,NKBD			CAM	00104
1522	BDI(KBD, ID) = BDI(KBD, IDM1) - BDD(KBD, IDM1) + BDA(KBD, ID)			CAM	00105
	DO 1524 KRD=1,NKRD			CAM	00106
	RDI(KRD, ID) = RDI(KRD, IDM1) - RDD(KRD, IDM1) + RDA(KRD, ID)			CAM	00107
1524	CONTINUE			CAM	00108
C				CAM	00109
C	-- GROUND FIREPOWER FOR ID -- B AND R			CAM	00110
C				CAM	00111
1600	BGF(ID) = 0.			CAM	00112
	DO 1610 KBD=1,NKBD			CAM	00113
1610	BGF(ID) = BDI(KBD, ID) * FRD(KBD)			CAM	00114
	RGF(ID) = 0.			CAM	00115
	DO 1620 KRD=1,NKRD			CAM	00116
	RGF(ID) = RDI(KRD, ID) * FRD(KRD)			CAM	00117
1620	CONTINUE			CAM	00118
C				CAM	00119
C	SHELTER INVENTORY FOR ID--B AND R			CAM	00120
C				CAM	00121
	IF (ID=1) 1621,1621,1622			CAM	00122
1622	CONTINUE			CAM	00123
	SHELB(ID) = SHELB(IDM1) - BSHELK(IDM1)			CAM	00124
	SHELR(ID) = SHELR(IDM1) - RSHELK(IDM1)			CAM	00125
	GO TO 1623			CAM	00126

1621	CONTINUE	CAM	00127
	SHELH(1) = PRSHEL	CAM	00128
	SHELH(1) = PRSHEL	CAM	00129
1623	CONTINUE	CAM	00130
C		CAM	00131
C	STARTING AIRCRAFT INVENTORY FOR ID-- B AND H	CAM	00132
C		CAM	00133
	IF (ID-1) 2010, 2010, 2020	CAM	00134
2010	DO 2012 KBA=1, NKBA	CAM	00135
2012	HAI(KBA, ID) = RAA(KBA, ID)	CAM	00136
	DO 2014 KRA=1, NKRA	CAM	00137
2014	RAI(KRA, ID) = RAA(KRA, ID)	CAM	00138
	GO TO 2050	CAM	00139
2020	IDM1 = ID-1	CAM	00140
	DO 2022 KBA=1, NKBA	CAM	00141
2022	HAI(KBA, ID) = RAI(KBA, IDM1) - BAD(KBA, IDM1) + BAA(KBA, ID)	CAM	00142
	DO 2024 KRA=1, NKRA	CAM	00143
	RAI(KRA, ID) = HAI(KRA, IDM1) - RAD(KRA, IDM1) + RAA(KRA, ID)	CAM	00144
2024	CONTINUE	CAM	00145
C		CAM	00146
C	DETERMINATION OF GRA AND	CAM	00147
C	AIRCRAFT ASSIGNMENTS--BLUE AND RED	CAM	00148
C		CAM	00149
2050	CONTINUE	CAM	00150
	IF (HAI(1, ID) - DBGRA) 2051, 2052, 2052	CAM	00151
2051	ABGRA = HAI(1, ID)	CAM	00152
	BAAS = 0.0	CAM	00153
	GO TO 2053	CAM	00154
2052	ABGRA = DBGRA	CAM	00155
	BAAS = HAI(1, ID) - DBGRA	CAM	00156
2053	IF (RAI(1, ID) - DRGRA) 2054, 2055, 2055	CAM	00157
2054	ARGRA = RAI(1, ID)	CAM	00158
	RAAS = 0.0	CAM	00159
	GO TO 2056	CAM	00160
2055	ARGRA = DRGRA	CAM	00161
	RAAS = RAI(1, ID) - DRGRA	CAM	00162
2056	CONTINUE	CAM	00163
2060	CONTINUE	CAM	00164
	IPD = I	CAM	00165
	IF (ID .GE. IUL2) IPD = 2	CAM	00166
	IF (ID .GE. IUL3) IPD = 3	CAM	00167
	SUMB = SUMR = 0.0	CAM	00168
	DO 2061 MS = 1, 3	CAM	00169
	HA(1, MS) = PROPH(MS, IPD) * BAAS	CAM	00170
	RA(1, MS) = PROPH(MS, IPD) * RAAS	CAM	00171
	HA(2, MS) = RAI(MS+1, ID)	CAM	00172
	RA(2, MS) = RAI(MS+1, ID)	CAM	00173
	SUMB = SUMB + HA(1, MS)	CAM	00174
	SUMR = SUMR + RA(1, MS)	CAM	00175
2061	CONTINUE	CAM	00176
	BANAS = BAAS - SUMB	CAM	00177
	RANAS = RAAS - SUMR	CAM	00178
C		CAM	00179
C	SORTIE RATES FOR BLUE AND RED	CAM	00180
C		CAM	00181
	IF (ID = IDBSRC) 2080, 2085, 2085	CAM	00182
2080	CONTINUE	CAM	00183
	DO 2081 TY = 1, 2	CAM	00184

	DO 2081 MS=1,3	CAM	00185
	SORRB(TY,MS) = SORRR1(TY,MS)	CAM	00186
2081	CONTINUE	CAM	00187
	BFRAC=BFRAC1	CAM	00188
	GO TO 2089	CAM	00189
2085	CONTINUE	CAM	00190
	DO 2086 TY=1,2	CAM	00191
	DO 2086 MS=1,3	CAM	00192
	SORRB(TY,MS) = SORRR2(TY,MS)	CAM	00193
2086	CONTINUE	CAM	00194
	BFRAC=BFRAC2	CAM	00195
2089	CONTINUE	CAM	00196
	IF(ID=IDRSRC) 2090,2095,2095	CAM	00197
2090	CONTINUE	CAM	00198
	DO 2091 TY=1,2	CAM	00199
	DO 2091 MS=1,3	CAM	00200
	SORRR(TY,MS) = SORRR1(TY,MS)	CAM	00201
2091	CONTINUE	CAM	00202
	RFRAC=RFRAC1	CAM	00203
	GO TO 2100	CAM	00204
2095	CONTINUE	CAM	00205
	DO 2096 TY=1,2	CAM	00206
	DO 2096 MS=1,3	CAM	00207
	SORRR(TY,MS) = SORRR2(TY,MS)	CAM	00208
2096	CONTINUE	CAM	00209
	RFRAC=RFRAC2	CAM	00210
C		CAM	00211
C		CAM	00212
C	AIRCRAFT DESTRUCTION -- AIR TO AIR INTERACTION	CAM	00213
C		CAM	00214
C		CAM	00215
2100	CONTINUE	CAM	00216
C		CAM	00217
C	SORTIES FOR BLUE AND RED	CAM	00218
C		CAM	00219
	DO 2101 TY=1,2	CAM	00220
	DO 2101 MS=1,3	CAM	00221
	BS(TY,MS) = HA(TY,MS)*SORRB(TY,MS)	CAM	00222
	RS(TY,MS) = RA(TY,MS)*SORRR(TY,MS)	CAM	00223
	BANF(TY,MS)=HANF(TY,MS)= 0.0	CAM	00224
	IF(SORRB(TY,MS) .LT. 1.0) BANF(TY,MS)=BA(TY,MS)*(1.-SORRB(TY,MS))	CAM	00225
	IF(SORRR(TY,MS) .LT. 1.0) RANF(TY,MS)=RA(TY,MS)*(1.-SORRR(TY,MS))	CAM	00226
2101	CONTINUE	CAM	00227
	BITS= BS(1,3) + BS(2,3)	CAM	00228
	BATS= BS(1,1) + BS(1,2) +BS(2,1) + BS(2,2)	CAM	00229
	RITS=RS(1,3) + RS(2,3)	CAM	00230
	RATS= RS(1,1)+RS(1,2)+RS(2,1)+RS(2,2)	CAM	00231
C		CAM	00232
C	CHECKS	CAM	00233
C		CAM	00234
	IBIRA=IBARI=0	CAM	00235
	IF(RATS .LT. 1. .OR. BITS .LT. 1.) IBIRA=1	CAM	00236
	IF(RITS .LT. 1. .OR. BATS .LT. 1.) IBARI=1	CAM	00237
C		CAM	00238
C	COMPUTING AVERAGE DETECTION PARAMETERS	CAM	00239
C		CAM	00240
2100	CONTINUE	CAM	00241
	IF((IBIRA .EQ. 1) GO TO 2185	CAM	00242

	DO 2181 TYB =1,2	CAM 00243
	SUM= 0.0	CAM 00244
	DO 2182 TYR =1,2	CAM 00245
	DO 2182 MSR =1,2	CAM 00246
	INDR= MSR* 2*(TYR-1)	CAM 00247
	SUM= SUM+ MIDRA(TYB,INDR)*RS(TYR,MSR)	CAM 00248
2182	CONTINUE	CAM 00249
	VHMIDRA(TYB)= SUM/RATS	CAM 00250
2181	CONTINUE	CAM 00251
	IF(IAA .EQ. 1) GO TO 2185	CAM 00252
	DO 2183 TYR=1,2	CAM 00253
	DO 2183 MSR=1,2	CAM 00254
	INDR= MSR* 2*(TYR-1)	CAM 00255
	SUM= 0.0	CAM 00256
	DO 2184 TYB=1,2	CAM 00257
	SUM= SUM+ MADBI(INDR,TYB)*BS(TYB,3)	CAM 00258
2184	CONTINUE	CAM 00259
	VHADBI(INDR)= SUM/RITS	CAM 00260
2183	CONTINUE	CAM 00261
2185	CONTINUE	CAM 00262
	IF(IHARI .EQ. 1) GO TO 2200	CAM 00263
	DO 2186 TYR =1,2	CAM 00264
	SUM= 0.0	CAM 00265
	DO 2187 TYB =1,2	CAM 00266
	DO 2187 MSB =1,2	CAM 00267
	INDB= MSB* 2*(TYB-1)	CAM 00268
	SUM= SUM+ RIDBA(TYR,INDB)*BS(TYB,MSB)	CAM 00269
2187	CONTINUE	CAM 00270
	VRIDBA(TYR)=SUM/BATS	CAM 00271
2186	CONTINUE	CAM 00272
	IF(IAA .EQ. 1) GO TO 2200	CAM 00273
	DO 2188 TYR=1,2	CAM 00274
	DO 2188 MSR=1,2	CAM 00275
	INDB= MSB* 2*(TYB-1)	CAM 00276
	SUM= 0.0	CAM 00277
	DO 2189 TYR=1,2	CAM 00278
	SUM= SUM+ BADRI(INDB,TYR)*RS(TYR,3)	CAM 00279
2189	CONTINUE	CAM 00280
	VHADRI(INDB)=SUM/RITS	CAM 00281
2188	CONTINUE	CAM 00282
2200	CONTINUE	CAM 00283
	WRITE(MOT,61) ID	CAM 00284
	61 FORMAT(/////1H ,45HBLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY	CAM 00285
	1, I4)	CAM 00286
	WRITE(MOT,12) ID, ((L(1,I),I=1,5),((BS(TY,MS),MS=1,3),TY=1,2)	CAM 00287
	WRITE(MOT,12) ID, ((L(2,I),I=1,5),((BA(TY,MS),MS=1,3),TY=1,2)	CAM 00288
	WRITE(MOT,12) ID, ((L(3,I),I=1,5),RANAS	CAM 00289
	WRITE(MOT,12) ID, ((L(4,I),I=1,5),((BANF(TY,MS),MS=1,3),TY=1,2)	CAM 00290
	WRITE(MOT,71) ID	CAM 00291
	71 FORMAT(1H ,44HRED SORTIES AND AIRCRAFT AT BEGINNING OF DAY ,I4)	CAM 00292
	WRITE(MOT,12) ID, ((L(5,I),I=1,5),((RS(TY,MS),MS=1,3),TY=1,2)	CAM 00293
	WRITE(MOT,12) ID, ((L(6,I),I=1,5),((RA(TY,MS),MS=1,3),TY=1,2)	CAM 00294
	WRITE(MOT,12) ID, ((L(7,I),I=1,5),RANAS	CAM 00295
	WRITE(MOT,12) ID, ((L(8,I),I=1,5),((RANF(TY,MS),MS=1,3),TY=1,2)	CAM 00296
C		CAM 00297
C	CHOOSE DESIRED METHOD OF ATTRITION	CAM 00298
C	STATEMENT NUMBERS IN 22005 FOR FIRST METHOD	CAM 00299
C	STATEMENT NUMBERS IN 23005 FOR SECOND METHOD	CAM 00300

C	IF (IAA .EQ. 1) GO TO 2300	CAM	00301
C	BLUE INTERCEPTORS, RED ATTACKERS	CAM	00302
C	IF (IBIRA .EQ. 1) GO TO 2249	CAM	00303
C	BLUE INTERCEPTORS KILL RED ATTACKERS	CAM	00304
C	RATS1=RATS/XNBAA	CAM	00305
	DO 2210 TYR =1,2	CAM	00306
	DO 2210 MSR =1,2	CAM	00307
	INDR= MSR* 2*(TYR-1)	CAM	00308
	PROD=1.0	CAM	00309
	DO 2220 TYB =1,2	CAM	00310
	X1= (1.-(1.-VVIDRA(TYB))*RATS1)/RATS1	CAM	00311
	X15=AMAX1(0.0, 1.-BIKRA(TYB,INDR)*X1)	CAM	00312
	PROD= PROD* X15*(RS(TYB,3)/XNBAA)	CAM	00313
2220	CONTINUE	CAM	00314
	RSKAA(TYR,MSR)=RS(TYR,MSR)*(1.-PROD)	CAM	00315
2210	CONTINUE	CAM	00316
C	RED ATTACKERS KILL BLUE INTERCEPTORS	CAM	00317
C	BITS1=BITS/XNBAA	CAM	00318
	DO 2230 TYB =1,2	CAM	00319
	PROD=1.0	CAM	00320
	DO 2240 TYR =1,2	CAM	00321
	DO 2240 MSR =1,2	CAM	00322
	INDR= MSR* 2*(TYR-1)	CAM	00323
	X1=(1.-(1.-VRADBI(INDR))*BITS1)/BITS1	CAM	00324
	X15=AMAX1(0.0, 1.-RAKBI(INDR,TYB)*X1)	CAM	00325
	PROD=PROD* X15*(RS(TYR,MSR)/XNBAA)	CAM	00326
2240	CONTINUE	CAM	00327
	BSKAA(TYB,3) = BS(TYB,3)*(1.-PROD)	CAM	00328
2230	CONTINUE	CAM	00329
	GO TO 2250	CAM	00330
2249	RAKAA(1,1) =RAKAA(1,2)=RAKAA(2,1)=RAKAA(2,2)=0.0	CAM	00331
	RSKAA(1,1)=RSKAA(1,2)=RSKAA(2,1)=RSKAA(2,2) = 0.0	CAM	00332
	BSKAA(1,3) = BSKAA(2,3) = 0.0	CAM	00333
	BAKAA(1,3) =BAKAA(2,3)=0.0	CAM	00334
2250	CONTINUE	CAM	00335
C	RED INTERCEPTORS, BLUE ATTACKERS	CAM	00336
C	IF (IBARI .EQ. 1) GO TO 2299	CAM	00337
C	RED INTERCEPTORS KILL BLUE ATTACKERS	CAM	00338
C	BATS1=BATS/XNBAA	CAM	00339
	DO 2260 TYB =1,2	CAM	00340
	DO 2260 MSB =1,2	CAM	00341
	INDB= MSB* 2*(TYB-1)	CAM	00342
	PROD=1.0	CAM	00343
	DO 2270 TYR =1,2	CAM	00344
	X1= (1.-(1.-VVIDRA(TYR))*BATS1)/BATS1	CAM	00345
	X15=AMAX1(0.0, 1.-RIKBA(TYR,INDB)*X1)	CAM	00346
	PROD =PROD *X15*(RS(TYR,3)/XNBAA)	CAM	00347
		CAM	00348
		CAM	00349
		CAM	00350
		CAM	00351
		CAM	00352
		CAM	00353
		CAM	00354
		CAM	00355
		CAM	00356
		CAM	00357
		CAM	00358

2270	CONTINUE					CAM	00359
	BSKAA(TYB,MSB)=BS(TYB,MSR)*(1.-PROD)					CAM	00360
2280	CONTINUE					CAM	00361
C						CAM	00362
C	BLUE ATTACKERS KILL RED INTERCEPTORS					CAM	00363
C						CAM	00364
	RITS1=RITS/XNRAA					CAM	00365
	DO 2280 TYR =1,2					CAM	00366
	PROD=1.0					CAM	00367
	DO 2290 TYB=1,2					CAM	00368
	DO 2290 MSR=1,2					CAM	00369
	INDH= MSR* 2*(TYB-1)					CAM	00370
	X1=(1.- (1.-VBADRI(INDH))*RITS1)/RITS1					CAM	00371
	X15=AMAX1(0.0, 1.-BAKRI(INDH, TYR)*X1)					CAM	00372
	PROD=PROD* X15*(BS(TYB,MSB)/XNRAA)					CAM	00373
2290	CONTINUE					CAM	00374
	RSKAA(TYR,3)=RS(TYR,3)*(1.-PROD)					CAM	00375
2290	CONTINUE					CAM	00376
	GO TO 2400					CAM	00377
2299	BSKAA(1,1) =BSKAA(1,2) = BSKAA(2,1) = BSKAA(2,2) = 0.0					CAM	00378
	BAKAA(1,1) =BAKAA(1,2) = BAKAA(2,1) = BAKAA(2,2) = 0.0					CAM	00379
	RSKAA(1,3) = HSKAA(2,3) = 0.0					CAM	00380
	RAKAA(1,3) = RAKAA(2,3) = 0.0					CAM	00381
	GO TO 2400					CAM	00382
2300	CONTINUE					CAM	00383
C						CAM	00384
C	ALTERNATE ATTRITION SCHEME					CAM	00385
C	IN THIS ATTRITION METHOD ATTACKERS SHOOT AT INTERCEPTORS ONLY IF					CAM	00386
C	ENGAGED BY THEM AND THEN ONLY (1.-ALPHA) OF THE TIME					CAM	00387
C						CAM	00388
C	BLUE INTERCEPTORS, RED ATTACKERS					CAM	00389
C						CAM	00390
	IF (IBIRA .EQ. 1) GO TO 2349					CAM	00391
C						CAM	00392
C	RED ATTACKERS KILLED					CAM	00393
C						CAM	00394
	RATS1=RATS/XNBAA					CAM	00395
	DO 2310 TYR =1,2					CAM	00396
	DO 2310 MSR =1,2					CAM	00397
	INDR= MSR* 2*(TYR-1)					CAM	00398
	PROD1=PROD2=1.0					CAM	00399
	DO 2311 TYB =1,2					CAM	00400
	X1= (1.- (1.-VBIDRA(TYB))*RATS1)/RATS1					CAM	00401
	X15=AMAX1(0.0, 1.-RIKRA(TYB, INDR)*X1)					CAM	00402
	X2 =AMAX1(0.0, 1.-X1)					CAM	00403
	PROD1=PROD1*X15*(RS(TYB,3)/XNBAA)					CAM	00404
	PROD2=PROD2*X2 *(RS(TYB,3)/XNBAA)					CAM	00405
2311	CONTINUE					CAM	00406
	RSKAA(TYR,MSR)=RS(TYR,MSR)*(1.-PROD1)					CAM	00407
	RSENG(TYR,MSR)=RS(TYR,MSR)*(1.-PROD2)					CAM	00408
2310	CONTINUE					CAM	00409
C						CAM	00410
C	BLUE INTERCEPTORS KILLED					CAM	00411
C						CAM	00412
	DENOM= BS(1,3)*VBIDRA(1) + BS(2,3)*VBIDRA(2)					CAM	00413
	BPENG(1)=(BS(1,3)*VBIDRA(1))/DENOM					CAM	00414
	BPENG(2)=(BS(2,3)*VBIDRA(2))/DENOM					CAM	00415
	DO 2320 TYB =1,2					CAM	00416

SUM= 0.0	CAM	00417
DO 2321 TYR =1,2	CAM	00418
DO 2321 MSR =1,2	CAM	00419
INDB= MSR* 2*(TYR-1)	CAM	00420
SUM=SUM+ RSENG(TYR,MSR) *RAKBI(INDB,TYB)*BPENG(TYB)*	CAM	00421
1 (1.-RALPHA(TYR,MSR))	CAM	00422
2321 CONTINUE	CAM	00423
BSKAA(TYB,3)=SUM	CAM	00424
2320 CONTINUE	CAM	00425
GO TO 2350	CAM	00426
2349 RAKAA(1,1) =RAKAA(1,2)=RAKAA(2,1)=RAKAA(2,2)=0.0	CAM	00427
RSKAA(1,1)=RSKAA(1,2)=RSKAA(2,1)=RSKAA(2,2) = 0.0	CAM	00428
BSKAA(1,3) = BSKAA(2,3) = 0.0	CAM	00429
BAKAA(1,3) =BAKAA(2,3)=0.0	CAM	00430
2350 CONTINUE	CAM	00431
C	CAM	00432
C RED INTERCEPTORS, BLUE ATTACKERS	CAM	00433
C	CAM	00434
C IF(IBARI .EQ. 1) GO TO 2399	CAM	00435
C	CAM	00436
C BLUE ATTACKERS KILLED	CAM	00437
C	CAM	00438
BATS1=BATS/XNRAA	CAM	00439
DO 2360 TYB =1,2	CAM	00440
DO 2360 MSB =1,2	CAM	00441
INDB= MSB* 2*(TYB-1)	CAM	00442
PROD1=PROD2=1.0	CAM	00443
DO 2361 TYR =1,2	CAM	00444
X1= (1.- (1.-VRIDBA(TYR))*BATS1)/BATS1	CAM	00445
X15=AMAX1(0.0, 1.-RIKBA(TYR,INDB)*X1)	CAM	00446
X2 =AMAX1(0.0, 1.-X1)	CAM	00447
PROD1=PROD1*X15** (RS(TYR,3)/XNRAA)	CAM	00448
PROD2=PROD2*X2 ** (RS(TYR,3)/XNRAA)	CAM	00449
2361 CONTINUE	CAM	00450
BSKAA(TYB,MSB)=BS(TYB,MSB)*(1.-PROD1)	CAM	00451
BSENG(TYB,MSB)=BS(TYB,MSB)*(1.-PROD2)	CAM	00452
2360 CONTINUE	CAM	00453
C	CAM	00454
C RED INTERCEPTORS KILLED	CAM	00455
C	CAM	00456
DENOM= RS(1,3)*VRIDBA(1)+RS(2,3)*VRIDBA(2)	CAM	00457
RPENG(1)=(RS(1,3)*VRIDBA(1))/DENOM	CAM	00458
RPENG(2)=(RS(2,3)*VRIDBA(2))/DENOM	CAM	00459
DO 2370 TYR =1,2	CAM	00460
SUM= 0.0	CAM	00461
DO 2371 TYB =1,2	CAM	00462
DO 2371 MSB =1,2	CAM	00463
INDB= MSB* 2*(TYB-1)	CAM	00464
SUM=SUM+ BSENG(TYB,MSB)*BAKRI(INDB,TYR)*RPENG(TYR)*	CAM	00465
1 (1.-BALPHA(TYB,MSB))	CAM	00466
2371 CONTINUE	CAM	00467
RSKAA(TYR,3)= SUM	CAM	00468
2370 CONTINUE	CAM	00469
GO TO 2400	CAM	00470
2399 BSKAA(1,1) =BSKAA(1,2) = BSKAA(2,1) = BSKAA(2,2) = 0.0	CAM	00471
BAKAA(1,1) =BAKAA(1,2) = BAKAA(2,1) = BAKAA(2,2) = 0.0	CAM	00472
RSKAA(1,3) = RSKAA(2,3) = 0.0	CAM	00473
RAKAA(1,3) = RAKAA(2,3) = 0.0	CAM	00474

24n0	CONTINUE	CAM	00475
C		CAM	00476
C	FIRST REVISED ATTACK-- SUBTRACT OUT AIRCRAFT LOSSES	CAM	00477
C	IN AIR TO AIR INTERACTION	CAM	00478
C		CAM	00479
C	COMPUTE AND SUBTRACT OUT SORTIES LOST	CAM	00480
C		CAM	00481
	IF (IAA) 2401,2401,2403	CAM	00482
24n1	DO 2402 TY=1,2	CAM	00483
	DO 2402 MS=1,3	CAM	00484
	BS(TY,MS)=RS(TY,MS)-BSKAA(TY,MS)	CAM	00485
	RS(TY,MS)=RS(TY,MS)-BSKAA(TY,MS)	CAM	00486
24n2	CONTINUE	CAM	00487
	GO TO 2407	CAM	00488
24n3	CONTINUE	CAM	00489
	DO 2405 TY=1,2	CAM	00490
	HS(TY,3)=BS(TY,3)-RSKAA(TY,3)	CAM	00491
	RS(TY,3)=RS(TY,3)-RSKAA(TY,3)	CAM	00492
	BSFB(TY,3)=RSFB(TY,3)+0.0	CAM	00493
	DO 2405 MS=1,2	CAM	00494
	BSFB(TY,MS)=(1.-BAPHA(TY,MS))*(BSENG(TY,MS)-BSKAA(TY,MS))	CAM	00495
	RSFB(TY,MS)=(1.-HALPHA(TY,MS))*(RSENG(TY,MS)-RSKAA(TY,MS))	CAM	00496
	BS(TY,MS)=BS(TY,MS)-BSKAA(TY,MS)-BSFB(TY,MS)	CAM	00497
	RS(TY,MS)=RS(TY,MS)-RSKAA(TY,MS)-RSFB(TY,MS)	CAM	00498
24n5	CONTINUE	CAM	00499
24n7	CONTINUE	CAM	00500
C		CAM	00501
C	CONVERT SORTIES LOST TO AIRCRAFT LOST	CAM	00502
C	FIND REMAINING NUMBER OF AIRCRAFT	CAM	00503
C		CAM	00504
	DO 2410 TY=1,2	CAM	00505
	DO 2410 MS=1,3	CAM	00506
	SRB=AMAX1(1.0,SORRR(TY,MS))	CAM	00507
	SRR=AMAX1(1.0,SORRR(TY,MS))	CAM	00508
	BAFB(TY,MS)=BSFB(TY,MS)/SRB	CAM	00509
	RAFB(TY,MS)=RSFB(TY,MS)/SRR	CAM	00510
	BAKAA(TY,MS)=BSKAA(TY,MS)/SRB	CAM	00511
	RAKAA(TY,MS)=RSKAA(TY,MS)/SRR	CAM	00512
	BA(TY,MS)=BA(TY,MS)-BAFB(TY,MS)-BAKAA(TY,MS)	CAM	00513
	RA(TY,MS)=RA(TY,MS)-RAFB(TY,MS)-RAKAA(TY,MS)	CAM	00514
24j0	CONTINUE	CAM	00515
	WRITE(MOT,62)	CAM	00516
A2	FORMAT(1H,43HATTRITION TO BLUE IN AIR-TO-AIR INTERACTION)	CAM	00517
	WRITE(MOT,15) ID, ((9,I),I=1,5),IRIRA,IBARI	CAM	00518
	WRITE(MOT,12) ID, ((10,I),I=1,5),RATS,RATS1	CAM	00519
	WRITE(MOT,12) ID, ((11,I),I=1,5),RITS,RITS1	CAM	00520
	WRITE(MOT,12) ID, ((12,I),I=1,5),VRIDBA	CAM	00521
	WRITE(MOT,12) ID, ((13,I),I=1,5),VRADBI	CAM	00522
	WRITE(MOT,13) ID, ((14,I),I=1,5),((BSENG(TY,MS),MS=1,2),TY=1,2)	CAM	00523
	WRITE(MOT,12) ID, ((15,I),I=1,5),DENOM	CAM	00524
	WRITE(MOT,12) ID, ((16,I),I=1,5),RPENG	CAM	00525
	WRITE(MOT,12) ID, ((17,I),I=1,5),((BSKAA(TY,MS),MS=1,3),TY=1,2)	CAM	00526
	WRITE(MOT,12) ID, ((18,I),I=1,5),((BAKAA(TY,MS),MS=1,3),TY=1,2)	CAM	00527
	WRITE(MOT,12) ID, ((19,I),I=1,5),((BSFB(TY,MS),MS=1,3),TY=1,2)	CAM	00528
	WRITE(MOT,12) ID, ((20,I),I=1,5),((BAFB(TY,MS),MS=1,3),TY=1,2)	CAM	00529
	WRITE(MOT,12) ID, ((21,I),I=1,5),((BS(TY,MS),MS=1,3),TY=1,2)	CAM	00530
	WRITE(MOT,12) ID, ((22,I),I=1,5),((BA(TY,MS),MS=1,3),TY=1,2)	CAM	00531
	WRITE(MOT, 72)	CAM	00532

72	FORMAT(1H,43HATTITION TO RED IN AIR-TO-AIR INTERACTION)	CAM	00533
	WRITE(MOT,12) ID, (L(23,I),I=1,5),BATS,BATS1	CAM	00534
	WRITE(MOT,12) ID, (L(24,I),I=1,5),RITS,RITS1	CAM	00535
	WRITE(MOT,12) ID, (L(25,I),I=1,5),VRINRA	CAM	00536
	WRITE(MOT,12) ID, (L(26,I),I=1,5),VRAORI	CAM	00537
	WRITE(MOT,13) ID, (L(27,I),I=1,5),((RSENG(TY,MS),MS=1,2),TY=1,2)	CAM	00538
	WRITE(MOT,12) ID, (L(28,I),I=1,5),DEFNM	CAM	00539
	WRITE(MOT,12) ID, (L(29,I),I=1,5),RPENG	CAM	00540
	WRITE(MOT,12) ID, (L(30,I),I=1,5),((RSKAA(TY,MS),MS=1,3),TY=1,2)	CAM	00541
	WRITE(MOT,12) ID, (L(31,I),I=1,5),((RAKAA(TY,MS),MS=1,3),TY=1,2)	CAM	00542
	WRITE(MOT,12) ID, (L(32,I),I=1,5),((RQFR(TY,MS),MS=1,3),TY=1,2)	CAM	00543
	WRITE(MOT,12) ID, (L(33,I),I=1,5),((RAFR(TY,MS),MS=1,3),TY=1,2)	CAM	00544
	WRITE(MOT,12) ID, (L(34,I),I=1,5),((RS(TY,MS),MS=1,3),TY=1,2)	CAM	00545
	WRITE(MOT,12) ID, (L(35,I),I=1,5),((RA(TY,MS),MS=1,3),TY=1,2)	CAM	00546
C		CAM	00547
C	BLUE AND RED SAMs AND SECOND REVISED ATTACK	CAM	00548
C	FIND AND SUBTRACT OUT SORTIES AND AIRCRAFT KILLED BY SAMs	CAM	00549
C		CAM	00550
	DO 2415 TY=1,2	CAM	00551
	BSL(TY,3)*RSL(TY,3)= 0.0	CAM	00552
	DO 2416 MS=1,2	CAM	00553
	BSL(TY,MS)= BSAMZB(TY,MS)*BS(TY,MS)	CAM	00554
	RSL(TY,MS)= BSAMZR(TY,MS)*RS(TY,MS)	CAM	00555
2416	CONTINUE	CAM	00556
2415	CONTINUE	CAM	00557
	DO 2420 TY=1,2	CAM	00558
	DO 2420 MS=1,3	CAM	00559
	SRB=AMAX1(1.0,SORRR(TY,MS))	CAM	00560
	SRR=AMAX1(1.0,SORRR(TY,MS))	CAM	00561
	BAL(TY,MS)= HSL(TY,MS)/SRB	CAM	00562
	RAL(TY,MS)= RSL(TY,MS)/SRR	CAM	00563
	BS(TY,MS)=BS(TY,MS)-BSL(TY,MS)	CAM	00564
	BA(TY,MS)=BA(TY,MS)-BAL(TY,MS)	CAM	00565
	RS(TY,MS)=RS(TY,MS)-RSL(TY,MS)	CAM	00566
	RA(TY,MS)=RA(TY,MS)-RAL(TY,MS)	CAM	00567
2420	CONTINUE	CAM	00568
	WRITE(MOT, 63)	CAM	00569
63	FORMAT(1H,25HBLUE LOSSES TO ENEMY SAMs)	CAM	00570
	WRITE(MOT,12) ID, (L(36,I),I=1,5),((BSL(TY,MS),MS=1,3),TY=1,2)	CAM	00571
	WRITE(MOT,12) ID, (L(37,I),I=1,5),((BAL(TY,MS),MS=1,3),TY=1,2)	CAM	00572
	WRITE(MOT,12) ID, (L(38,I),I=1,5),((BS(TY,MS),MS=1,3),TY=1,2)	CAM	00573
	WRITE(MOT,12) ID, (L(39,I),I=1,5),((BA(TY,MS),MS=1,3),TY=1,2)	CAM	00574
	WRITE(MOT, 73)	CAM	00575
73	FORMAT(1H,25HRED LOSSES TO ENEMY SAMs)	CAM	00576
	WRITE(MOT,12) ID, (L(40,I),I=1,5),((RSL(TY,MS),MS=1,3),TY=1,2)	CAM	00577
	WRITE(MOT,12) ID, (L(41,I),I=1,5),((RAL(TY,MS),MS=1,3),TY=1,2)	CAM	00578
	WRITE(MOT,12) ID, (L(42,I),I=1,5),((RS(TY,MS),MS=1,3),TY=1,2)	CAM	00579
	WRITE(MOT,12) ID, (L(43,I),I=1,5),((RA(TY,MS),MS=1,3),TY=1,2)	CAM	00580
C		CAM	00581
C		CAM	00582
C	AIRCRAFT DESTRUCTION--AIRBASE ATTACK	CAM	00583
C		CAM	00584
C		CAM	00585
C	BLUE AIRBASES	CAM	00586
C		CAM	00587
C		CAM	00588
C	COMPUTE NUMBER OF BLUE AIRCRAFT VULNERABLE TO ABA BY RED	CAM	00589
C		CAM	00590

	BSHEL=SHELH(ID)	CAM	00591
	IF(SHELH(ID) .LT. 1.) BSHEL=0.	CAM	00592
	BAVUL(1)=BANAS	CAM	00593
	DO 2501 MS=1,3	CAM	00594
	BAVUL(1)=BAVUL(1)+RA(1,MS)+BANF(1,MS)+BAFB(1,MS)	CAM	00595
2501	CONTINUE	CAM	00596
	DO 2502 KBA=2,4	CAM	00597
	MS=KBA-1	CAM	00598
	BAVUL(KBA)=RA(2,MS)+BAFB(2,MS)+BANF(2,MS)	CAM	00599
2502	CONTINUE	CAM	00600
	WRITE(MOT,13) IRABA	CAM	00601
121	FORMAT(1H0,51HBLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE	CAM	00602
	1,I5)	CAM	00603
	WRITE(MOT,12) ID, (L(44,I),I=1,5),BAVUL	CAM	00604
	ABGRAS=AMIN1(ABGRA,BSHEL)	CAM	00605
	BSHEL1=BSHEL-ABGRAS	CAM	00606
	WRITE(MOT,31) ID, ABGRA,ABGRAS,BSHEL,BSHEL1	CAM	00607
	ABQRAN=ABQRA-ABGRAS	CAM	00608
	BAVULT=BAVUL(1)+BAVUL(2)+BAVUL(3)+BAVUL(4)	CAM	00609
	BSHEL1=AMIN1(BSHEL1,BAVULT)	CAM	00610
	WRITE(MOT,12) ID, (L(45,I),I=1,5),BAVULT,ABQRAN,BSHEL1	CAM	00611
	IF(BAVULT .EQ. 0.0) GO TO 2505	CAM	00612
	DO 2504 KBA=1,NKBA	CAM	00613
	BPOPS(KBA)=BSHEL1*(BAVUL(KBA)/BAVULT)	CAM	00614
2504	CONTINUE	CAM	00615
2505	CONTINUE	CAM	00616
	DO 2506 KBA=1,NKBA	CAM	00617
	BPOPNS(KBA)=BFRAC*(BAVUL(KBA)-BPOPS(KBA))	CAM	00618
	BPOPS(KBA)=BFRAC*BPOPNS(KBA)	CAM	00619
2506	CONTINUE	CAM	00620
	WRITE(MOT,12) ID, (L(46,I),I=1,5),BPOPS	CAM	00621
	WRITE(MOT,12) ID, (L(47,I),I=1,5),BPOPNS	CAM	00622
	BPOPS(I)=BPOPNS(I)+ABGRAS	CAM	00623
	BPOPNS(I)=BPOPNS(I)+ABQRAN	CAM	00624
	WRITE(MOT,12) ID, (L(48,I),I=1,5),BPOPNS	CAM	00625
	WRITE(MOT,12) ID, (L(49,I),I=1,5),BPOPNS	CAM	00626
	BTOTS=BTOTNS+0.0	CAM	00627
	DO 2507 KBA=1,4	CAM	00628
	BTOTS=BTOTS+BPOPS(KBA)	CAM	00629
	BTOTNS=BTOTNS+BPOPNS(KBA)	CAM	00630
2507	CONTINUE	CAM	00631
	BTOT=BTOTS+BTOTNS	CAM	00632
	WRITE(MOT,12) ID, (L(50,I),I=1,5),BTOTS,BTOTNS,BTOT	CAM	00633
	RED ATTACKERS--COMPUTE NUMBER OF RED ATTACK PASSES	CAM	00634
		CAM	00635
	DO 2509 TYR=1,2	CAM	00636
	PRABA(TYR)=HS(TYR,2)*HPASS(TYR)	CAM	00637
2509	CONTINUE	CAM	00638
	RATP=PRABA(1)+PRABA(2)	CAM	00639
	WRITE(MOT,12) ID, (L(51,I),I=1,5),PRABA,RATP	CAM	00640
		CAM	00641
		CAM	00642
	CHECKS	CAM	00643
		CAM	00644
	IF(RATP .LT. 1.0 .OR. BTOT .LT. 1.0) GO TO 2598	CAM	00645
		CAM	00646
	AVERAGE RED EFFECTIVENESS PARAMETERS	CAM	00647
		CAM	00648

VRDBS = (RDBS(1)*PRABA(1)+ RDBS(2)*PRABA(2))/RATP	CAM	00649
VRKBS = (RKBS(1)*PRABA(1)+ RKBS(2)*PRABA(2))/RATP	CAM	00650
VRDBNS = (RDNS(1)*PRABA(1)+ RDNS(2)*PRABA(2))/RATP	CAM	00651
VRKBNS = (RKNS(1)*PRABA(1)+ RKNS(2)*PRABA(2))/RATP	CAM	00652
WRITE(MOT,32) ID, VRDBS,VRKBS,VRDBNS,VRKBNS	CAM	00653
C	CAM	00654
C USING APPROPRIATE RED ATTACK MODE, COMPUTE NUMBER OF BLUE AIRCRAFT	CAM	00655
C KILLED	CAM	00656
C	CAM	00657
GO TO (2510,2520,2530,2540), IRABA	CAM	00658
2510 CONTINUE	CAM	00659
TERMS1=0.0	CAM	00660
IF(BSMEL .NE. 0.0) TERMS1=	CAM	00661
1 VRKBS*(1.-(1.-VRDBS)**(BSHEL/XNBAB))/(BSMEL/XNBAB)	CAM	00662
XS=AMAX1(0.0, 1.-TERMS1*(1.-VRDBNS)**(BTOTNS/XNBAB))	CAM	00663
TERMS2= 1.- XS*(RATP/XNBAB)	CAM	00664
BAKS=BTOTS*TERMS2	CAM	00665
BSHELK(ID)=FBSK*BSHEL*TERMS2	CAM	00666
TERMN1=0.0	CAM	00667
IF(BTOTNS .GE. 1.0) TERMN1=	CAM	00668
1 VRKBNS*(1.-(1.-VRDBNS)**(BTOTNS/XNBAB))/AMIN1(BPARK,BTOTNS/XNBAB)	CAM	00669
XNS= AMAX1(0.0, 1.-TERMN1)	CAM	00670
TERMN2= 1.- XNS*(RATP/XNBAB)	CAM	00671
BAKNS= BTOTNS*TERMN2	CAM	00672
WRITE(MOT,33) ID, TERMS1,TERMS2,TERMN1,TERMN2	CAM	00673
WRITE(MOT,25) ID, BAKS,BSHELK(ID),BAKNS	CAM	00674
GO TO 2600	CAM	00675
2520 CONTINUE	CAM	00676
IF(BTOTNS .LT. 1.0) GO TO 2521	CAM	00677
IF(BTOTNS.LT. 1.0) GO TO 2522	CAM	00678
CS0=BSHEL/XNBAB	CAM	00679
CN0= BTOTNS/XNBAB	CAM	00680
CS1= 1.-(VRKBS/CS0)*(1.-(1.-VRDBS)**CS0)	CAM	00681
CS1= AMAX1(0.0,CS1)	CAM	00682
CS=CS1*(RATP/XNBAB)	CAM	00683
CN1= 1.-(VRKBNS/AMIN1(BPARK,CN0))*(1.-(1.-VRDBNS)**CN0)	CAM	00684
CN1= AMAX1(0.0, CN1)	CAM	00685
CN=CN1*(RATP/XNBAB)	CAM	00686
IF(CS .NE. 0.0) GO TO 2523	CAM	00687
IBZEX= 11	CAM	00688
Q= .0001	CAM	00689
GO TO 2525	CAM	00690
2523 IF(CN .NE. 0.0) GO TO 2524	CAM	00691
IBZEX= 12	CAM	00692
Q= .9999	CAM	00693
GO TO 2525	CAM	00694
2524 CONTINUE	CAM	00695
IBZEX= 20	CAM	00696
C1=BTOTNS*CN*ALOG(CN)/(BTOTS*ALOG(CS))	CAM	00697
Q0=ALOG(C1)/(ALOG(CS)+ALOG(CN))	CAM	00698
Q= Q0	CAM	00699
IF(Q0 .LE. 0.0) Q= 0.0	CAM	00700
IF(Q0 .GE. 1.0) Q= 1.0	CAM	00701
2525 CONTINUE	CAM	00702
CS2= 1.-CS**Q	CAM	00703
BAKS=BTOTS*CS2	CAM	00704
BSHELK(ID)=FBSK*BSHEL*CS2	CAM	00705
BAKNS=BTOTNS*(1.-CN**Q)	CAM	00706

WRITE(MOT,14) ID, (L(52,I),I=1,5),IR2EX	CAM	00707
WRITE(MOT,12) ID, (L(53,I),I=1,5),CS0,CS1,CS	CAM	00708
WRITE(MOT,12) ID, (L(54,I),I=1,5),CN0,CN1,CN	CAM	00709
WRITE(MOT,12) ID, (L(55,I),I=1,5),C1,00,0,CS2	CAM	00710
WRITE(MOT,25) ID, BAKS,RSHELK(ID),BAKNS	CAM	00711
GO TO 2600	CAM	00712
2521 BAKS=RSHELK(ID)=0.0	CAM	00713
CN1= 1.-(VRKHS/AMIN1(BPARK,CNU))*(1.-(1.-VRDRNS)**CNU)	CAM	00714
CN1= AMAX1(0.0,CN1)	CAM	00715
CN=CN1**(RATP/XNBAB)	CAM	00716
BAKNS=BTOTNS*(1.-CN)	CAM	00717
IR2EX= 21	CAM	00718
WRITE(MOT,14) ID, (L(56,I),I=1,5),IR2EX	CAM	00719
WRITE(MOT,12) ID, (L(57,I),I=1,5),CN0,CN1,CN	CAM	00720
WRITE(MOT,25) ID, BAKS,RSHELK(ID),BAKNS	CAM	00721
GO TO 2600	CAM	00722
2522 BAKNS= 0.0	CAM	00723
CS1= 1.-(VRKHS/CS0)*(1.-(1.-VRDRNS)**CS0)	CAM	00724
CS1= AMAX1(0.0,CS1)	CAM	00725
CS=CS1**(RATP/XNBAB)	CAM	00726
BAKNS=BTOTNS*(1.-CS)	CAM	00727
RSHELK(ID)= FBSK*RSHEL*(1.-CS)	CAM	00728
IR2EX= 22	CAM	00729
WRITE(MOT,14) ID, (L(58,I),I=1,5),IR2EX	CAM	00730
WRITE(MOT,12) ID, (L(59,I),I=1,5),CS0,CS1,CS	CAM	00731
WRITE(MOT,25) ID, BAKS,RSHELK(ID),BAKNS	CAM	00732
GO TO 2600	CAM	00733
2520 CONTINUE	CAM	00734
T=BTOTNS*RSHEL	CAM	00735
TERM1=(VRDRNS*RSHEL*VRDRNS*BTOTNS)/T	CAM	00736
TERM2=(1.-(1.-TERM1)**(T/XNBAB))/AMIN1(BPARK,(T/XNBAB))	CAM	00737
XNS= AMAX1(0.0, 1.-VRKHS*TERM2)	CAM	00738
XNS= AMAX1(0.0, 1.-VRKHS*TERM2)	CAM	00739
TERMS= 1. - XNS*(RATP/XNBAB)	CAM	00740
TERMNS=j. - XNS*(RATP/XNBAB)	CAM	00741
BAKNS= BTOTNS*TERMS	CAM	00742
RSHELK(ID)= FBSK*RSHEL*TERMS	CAM	00743
BAKNS= BTOTNS*TERMNS	CAM	00744
WRITE(MOT,34) ID, T,TERM1,TERM2,TERMS,TERMNS	CAM	00745
WRITE(MOT,25) ID, BAKS,RSHELK(ID),BAKNS	CAM	00746
GO TO 2600	CAM	00747
2540 CONTINUE	CAM	00748
B4AN=(B4AN1*PRABA(1)+B4AN2*PRABA(2))/RATP	CAM	00749
B4AS=(B4AS1*PRABA(1)+B4AS2*PRABA(2))/RATP	CAM	00750
B4NS=(B4NS1*PRABA(1)+B4NS2*PRABA(2))/RATP	CAM	00751
B4SN=(B4SN1*PRABA(1)+B4SN2*PRABA(2))/RATP	CAM	00752
X4N=(1.-B4AL)*B4AN/B4B	CAM	00753
X4SN=(1.-B4AL)*B4AS/B4B	CAM	00754
X4NS=(1.-B4AL)*B4AN*B4NS/B4B	CAM	00755
X4S=(1.-B4AL)*B4AS/B4B	CAM	00756
WRITE(MOT,12) ID, (L(60,I),I=1,5),B4AN,B4AS,B4NS,B4SN	CAM	00757
WRITE(MOT,12) ID, (L(61,I),I=1,5),X4N,X4NS,X4SN,X4S	CAM	00758
X4N=AMIN1(1.0,X4N)	CAM	00759
X4SN=AMIN1(1.0,X4SN)	CAM	00760
X4NS=AMIN1(1.0,X4NS)	CAM	00761
X4S=AMIN1(1.0,X4S)	CAM	00762
X4N=AMAX1(0.0,X4N)	CAM	00763
X4NS=AMAX1(0.0,X4NS)	CAM	00764

X4SN=AMAX1(0.0,X4SN)	CAM	00765
X4S =AMAX1(0.0,X4S)	CAM	00766
WRITE(MOT,12) I0, (L(62,I),I=1,5),X4N,X4NS,X4SN,X4S	CAM	00767
A1N= 1.-B4AL*B4AN*RATP/(B4B*XNBAB)	CAM	00768
A2N=(B4AL*RATP/(B4B*XNBAB))*(B4AS-R4SN-B4AN)	CAM	00769
A0B= RATP/XNBAB	CAM	00770
A3= (1.-X4N)**A0B	CAM	00771
A4=((1.-X4SN)/(1.-X4N))**A0B	CAM	00772
A1S= B4AL*B4AN*RATP*B4NS/(B4B*XNBAB)+1.	CAM	00773
A2S=(B4AL*RATP/(B4B*XNBAB))*(B4AS-B4AN*B4NS)	CAM	00774
A2=A2S+A2N	CAM	00775
A5=(1.-X4NS)**A0B	CAM	00776
A6= ((1.-X4S)/(1.-X4NS))**A0B	CAM	00777
WRITE(MOT,35) I0, A1N,A1S,A2N,A2S,A2,A3,A4,A5,A6	CAM	00778
IF(BTOT5 .LT. .0001) IR4EX= 11	CAM	00779
IF(BTOT5 .LT. .0001) GO TO 2548	CAM	00780
IF(BTOTNS .LT. .0001) IR4EX= 12	CAM	00781
IF(BTOTNS .LT. .0001) GO TO 2549	CAM	00782
X0=F14(0.)	CAM	00783
X1=F14(1.)	CAM	00784
IF(X0 .GE. 0. .AND. X1 .GE. 0.) IR4EX= 22	CAM	00785
IF(X0 .GE. 0. .AND. X1 .GE. 0.) GO TO 2549	CAM	00786
IF(X0 .LE. 0. .AND. X1 .LE. 0.) IR4EX= 21	CAM	00787
IF(X0 .LE. 0. .AND. X1 .LE. 0.) GO TO 2548	CAM	00788
2541 CONTINUE	CAM	00789
USE NEWTONS METHOD	CAM	00790
IR4EX=30	CAM	00791
Q0= .5	CAM	00792
NTN=0	CAM	00793
2542 Q1=Q0-F14(Q0)/F24(Q0)	CAM	00794
IF(ABS(Q1-Q0) .LT. EPS4) GO TO 2543	CAM	00795
IF(NTN .GT. 100) STOP 445	CAM	00796
Q0 =Q1	CAM	00797
NTN= NTN+1	CAM	00798
GO TO 2542	CAM	00799
2543 Q= Q1	CAM	00800
WRITE(MOT,14) I0, (L(63,I),I=1,5),IR4EX	CAM	00801
WRITE(MOT,14) I0, (L(64,I),I=1,5),NTN,Q	CAM	00802
TERMS= A1S+A2S*Q-A5*A6**Q	CAM	00803
TERMNS=A1N +A2N*Q-A3*A4**Q	CAM	00804
WRITE(MOT,12) I0, (L(65,I),I=1,5),TERMS,TERMNS	CAM	00805
TERMS=AMIN1(1.0,TERMS)	CAM	00806
WRITE(MOT,12) I0, (L(66,I),I=1,5),TERMS,TERMNS	CAM	00807
BAKS= BTOTS*TERMS	CAM	00808
BSHELK(ID)= FB5K*BSHEL*TERMS	CAM	00809
BAKNS= BTOTNS*AMIN1(1.0,TERMNS)	CAM	00810
WRITE(MOT,25) I0, BAKS,BSHELK(ID),BAKNS	CAM	00811
GO TO 2600	CAM	00812
2548 CONTINUE	CAM	00813
USE ONLY ANTI-NONSHeltered-AIRCRAFT MUNITIONS	CAM	00814
TERMS= B4AL*B4AN*RATP*B4NS/(B4B*XNBAB)+1.- (1.-X4NS)**(RATP/XNBAB)	CAM	00815
TERMS= AMIN1(1.0,TERMS)	CAM	00816
TERMNS=B4AL*B4AN*RATP/(B4B*XNBAB) +1.- (1.-X4N)**(RATP/XNBAB)	CAM	00817
BAKS=BTOTS*TERMS	CAM	00818
	CAM	00819
	CAM	00820
	CAM	00821
	CAM	00822

	HSHELK(ID)=FRSK*BSHEL*TERMS	CAM	00823
	BAKNS=BTOTINS*AMIN1(1.0,TERMNS)	CAM	00824
	WRITE(MOT,14) ID, (L(67,I),I=1,5),IR4FX	CAM	00825
	WRITE(MOT,12) ID, (L(68,I),I=1,5),TERMS,TERMNS	CAM	00826
	WRITE(MOT,25) ID, BAKS,BSHELK(ID),BAKNS	CAM	00827
	GO TO 2600	CAM	00828
2549	CONTINUE	CAM	00829
C		CAM	00830
C	USE ONLY ANTI-SHELTER MUNITIONS	CAM	00831
C		CAM	00832
	TERMS= (B4AL)*B44S*RATP/(B4B*XNBAR)+1.-(1.-X4S)**(RATP/XNBAB)	CAM	00833
	TERMNS=AMIN1(1.0,TERMS)	CAM	00834
	TERMNS=B4AL*B44S*RATP*B4SN/(B4B*XNBAR)+1.-(1.-X4SN)**(RATP/XNBAB)	CAM	00835
	BAKNS=HTOTS*TERMS	CAM	00836
	BSHELK(ID)=FRSK*BSHEL*TERMS	CAM	00837
	BAKNS=BTOTINS*AMIN1(1.0,TERMNS)	CAM	00838
	WRITE(MOT,14) ID, (L(69,I),I=1,5),IR4FX	CAM	00839
	WRITE(MOT,12) ID, (L(70,I),I=1,5),TERMS,TERMNS	CAM	00840
	WRITE(MOT,25) ID, BAKS,BSHELK(ID),BAKNS	CAM	00841
	GO TO 2600	CAM	00842
2598	CONTINUE	CAM	00843
	BAKNS=BAKNS+BSHELK(ID)*0.0	CAM	00844
	IR4FX=40	CAM	00845
	WRITE(MOT,14) ID, (L(71,I),I=1,5),IR4FX	CAM	00846
	WRITE(MOT,25) ID, BAKS,BSHELK(ID),BAKNS	CAM	00847
2600	CONTINUE	CAM	00848
C		CAM	00849
C	RED AIRBASES	CAM	00850
C		CAM	00851
C		CAM	00852
C	COMPUTE NUMBER OF RED AIRCRAFT VULNERABLE TO ABA BY BLUE	CAM	00853
C	IF IR3SH=1, DO NOT SHELTER RED SP ABA AIRCRAFT	CAM	00854
C		CAM	00855
	RSHEL=SHELR(ID)	CAM	00856
	IF(SHELK(ID) .LT. 1.) RSHEL=0.	CAM	00857
	RAVUL(1)=HANA5	CAM	00858
	DO 2601 MS=1,3	CAM	00859
	RAVUL(1)=RAVUL(1)+RA(1,MS)+RANF(1,MS)+RAFB(1,MS)	CAM	00860
2601	CONTINUE	CAM	00861
	DO 2602 KRA=2,4	CAM	00862
	MS=KRA-1	CAM	00863
	RAVUL(KRA)=RA(2,MS)+RAFB(2,MS)+RANF(2,MS)	CAM	00864
2602	CONTINUE	CAM	00865
	WRITE(MOT,14) IBARA	CAM	00866
141	FORMAT(1H,50HRED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE	CAM	00867
	1,15)	CAM	00868
	WRITE(MOT,12) ID, (L(72,I),I=1,5),RAVUL	CAM	00869
	ARQRAS=AMIN1(ARQRA,RSHEL)	CAM	00870
	RSHEL1=RSHEL-ARQRAS	CAM	00871
	WRITE(MOT,36) ID, ARQRA,ARQRAS,RSHEL,RSHEL1	CAM	00872
	ARQRAN=ARQRA -ARQRAS	CAM	00873
	XS=1-IR3SH	CAM	00874
	RAVULT=RAVUL(1)+RAVUL(2)+RAVUL(3)*XS+RAVUL(4)	CAM	00875
	RSHEL1=AMIN1(RSHEL1,RAVULT)	CAM	00876
	WRITE(MOT,12) ID, (L(73,I),I=1,5),RAVULT,ARQRAN,RSHEL1	CAM	00877
	IF(RAVULT.FW.0.0) GO TO 2605	CAM	00878
	DO 2604 KRA=1,NKRA	CAM	00879
	RPOPS(KRA)=RSHEL1*(RAVUL(KRA)/RAVULT)	CAM	00880

2604	CONTINUE	CAM	00881
	RPOPS(3)= XS*MPOPS(3)	CAM	00882
2605	CONTINUE	CAM	00883
	DO 2606 KRA=1,NKRA	CAM	00884
	RPOPNS(KRA)=RFHAC*(RAVUL(KRA)-RPOPS(KRA))	CAM	00885
	RPOPS(KRA)=RFHAC*RPOPNS(KRA)	CAM	00886
2606	CONTINUE	CAM	00887
	WRITE(MOT,12) I0, (L(74,I),I=1,5),RPOPS	CAM	00888
	WRITE(MOT,12) I0, (L(75,I),I=1,5),RPOPNS	CAM	00889
	RPOPS(1)=MPOPS(1)+ARURAS	CAM	00890
	RPOPNS(1)=RPOPNS(1)+ARQHAN	CAM	00891
	WRITE(MOT,12) I0, (L(76,I),I=1,5),RPOPS	CAM	00892
	WRITE(MOT,12) I0, (L(77,I),I=1,5),RPOPNS	CAM	00893
	RTOTS=RTOTNS+0.0	CAM	00894
	DO 2607 KHA=1,4	CAM	00895
	RTOTS= RTOTS+RPOPS(KHA)	CAM	00896
	RTOTNS=RTOTNS+RPOPNS(KRA)	CAM	00897
2607	CONTINUE	CAM	00898
	RTOT=RTOTS+RTOTNS	CAM	00899
	WRITE(MOT,12) I0, (L(78,I),I=1,5),RTOTS,RTOTNS,RTOT	CAM	00900
C		CAM	00901
C	BLUE ATTACKERS--COMPUTE NUMBER OF BLUE ATTACK PASSES	CAM	00902
C		CAM	00903
	DO 2609 TYR=1,2	CAM	00904
	PBABATTYB= BS(TYB,2)*RPASS(TYB)	CAM	00905
2609	CONTINUE	CAM	00906
	BATP=PBABA(1)+PBABA(2)	CAM	00907
	WRITE(MOT,12) I0, (L(79,I),I=1,5),PRARA,BATP	CAM	00908
C		CAM	00909
C	CHECKS	CAM	00910
C		CAM	00911
	IF(BATP .LT. 1.0 .OR. RTOT .LT. 1.0) GO TO 2698	CAM	00912
C		CAM	00913
C	AVERAGE BLUE EFFECTIVENESS PARAMETERS	CAM	00914
C		CAM	00915
	VBURNS = (BURNS(1)*PBABA(1)+ BURNS(2)*PBABA(2))/BATP	CAM	00916
	VBKRS = (BKRS(1)*PBABA(1)+ BKRS(2)*PBABA(2))/BATP	CAM	00917
	VBURNS = (RDMNS(1)*PBABA(1)+BURNS(2)*PBABA(2))/BATP	CAM	00918
	VBKRS = (BKRS(1)*PBABA(1)+BKRS(2)*PBABA(2))/BATP	CAM	00919
	WRITE(MOT,37) I0, VBURNS,VBKRS,VBDRNS,VBKRS	CAM	00920
C		CAM	00921
C	USING APPROPRIATE BLUE ATTACK MODE, COMPUTE NUMBER OF RED AIRCRAFT	CAM	00922
C	KILLED	CAM	00923
C		CAM	00924
	GO TO (2610,2620,2630,2640), IPABA	CAM	00925
2610	CONTINUE	CAM	00926
	TERMS1=0.0	CAM	00927
	IF(RSMEL .NE. 0.0) TERMS1=	CAM	00928
	1 VBKRS*(1.-(1.-VBDRS)**(RSMEL/XNRAB))/(RSMEL/XNRAB)	CAM	00929
	XS=AMAX1(0.0, 1.-TERMS1*(1.-VBURNS)**(RTOTNS/XNRAB))	CAM	00930
	TERMS2= 1.- XS** (BATP/XNRAB)	CAM	00931
	RAKS=RTOTS*TERMS2	CAM	00932
	RSMEL(I0)=FHSK*RSMEL*TERMS2	CAM	00933
	TERMN1=0.0	CAM	00934
	IF(RTOTNS .GE. 1.0) TERMN1=	CAM	00935
	1 VBKRS*(1.-(1.-VBDRS)**(RTOTNS/XNRAB))/AMIN1(RPARK,RTOTNS/XNRAB)	CAM	00936
	XNS= AMAX1(0.0, 1.-TERMN1)	CAM	00937
	TERMN2= 1.- XNS** (BATP/XNRAB)	CAM	00938

	RAKNS= RTOTNS*TERMN2	CAM	00939
	WRITE(MOT,33) ID, IFRMS1,TERMS2,TERMN1,TERMN2	CAM	00940
	WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	00941
	GO TO 2700	CAM	00942
2620	CONTINUE	CAM	00943
	IF(RTOTNS.LT. 1.0) GO TO 2621	CAM	00944
	IF(RTOTNS.LT. 1.0) GO TO 2622	CAM	00945
	CS0=RSHEL/XNRAB	CAM	00946
	CN0= RTOTNS/XNRAB	CAM	00947
	CS1= 1.-(VBKRS/CS0)*(1.-(1.-VBDRS)**CS0)	CAM	00948
	CS1= AMAX1(0.0,CS1)	CAM	00949
	CS=CS1** (BATP/XNRAB)	CAM	00950
	CN1= 1.-(VBKRS/AMIN1(RPARK,CN0))*(1.-(1.-VBDRNS)**CN0)	CAM	00951
	CN1= AMAX1(0.0, CN1)	CAM	00952
	CN=CN1** (BATP/XNRAB)	CAM	00953
	IF(CS .NE. 0.0) GO TO 2623	CAM	00954
	IRZEX= 11	CAM	00955
	Q= .0001	CAM	00956
	GO TO 2625	CAM	00957
2623	IF(CN .NE. 0.0) GO TO 2624	CAM	00958
	IRZEX= 12	CAM	00959
	Q= .9999	CAM	00960
	GO TO 2625	CAM	00961
2624	CONTINUE	CAM	00962
	IRZEX= 20	CAM	00963
	C1=RTOTNS*CN*ALOG(CN)/(RTOTS*ALOG(CS))	CAM	00964
	Q0=ALOG(C1)/(ALOG(CS)+ALOG(CN))	CAM	00965
	Q= Q0	CAM	00966
	IF(Q0 .LE. 0.0) Q= 0.0	CAM	00967
	IF(Q0 .GE. 1.0) Q= 1.0	CAM	00968
2625	CONTINUE	CAM	00969
	CS2= 1.-CS**W	CAM	00970
	RAKNS=RTOTS*CS2	CAM	00971
	RSHELK(ID)=FHSK*MSHEL*CS2	CAM	00972
	RAKNS=RTOTNS*(1.-CN** (1.-Q))	CAM	00973
	WRITE(MOT,14) ID, (L(80,I),I=1,5),IRZEX	CAM	00974
	WRITE(MOT,12) ID, (L(81,I),I=1,5),CS0,CS1,CS	CAM	00975
	WRITE(MOT,12) ID, (L(82,I),I=1,5),CN0,CN1,CN	CAM	00976
	WRITE(MOT,12) ID, (L(83,I),I=1,5),C1,Q0,Q,CS2	CAM	00977
	WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	00978
	GO TO 2700	CAM	00979
2621	RAKNS=RSHELK(ID)=0.0	CAM	00980
	CN1= 1.-(VBKRS/AMIN1(RPARK,CN0))*(1.-(1.-VBDRNS)**CN0)	CAM	00981
	CN1= AMAX1(0.0, CN1)	CAM	00982
	CN=CN1** (BATP/XNRAB)	CAM	00983
	RAKNS=RTOTNS*(1.-CN)	CAM	00984
	IRZEX= 21	CAM	00985
	WRITE(MOT,14) ID, (L(84,I),I=1,5),IRZEX	CAM	00986
	WRITE(MOT,12) ID, (L(85,I),I=1,5),CN0,CN1,CN	CAM	00987
	WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	00988
	GO TO 2700	CAM	00989
2622	RAKNS= 0.0	CAM	00990
	CS1= 1.-(VBKRS/CS0)*(1.-(1.-VBDRS)**CS0)	CAM	00991
	CS1= AMAX1(0.0,CS1)	CAM	00992
	CS=CS1** (BATP/XNRAB)	CAM	00993
	RAKNS=RTOTS*(1.-CS)	CAM	00994
	RSHELK(ID)= FHSK*RSHEL*(1.-CS)	CAM	00995
	IRZEX= 22	CAM	00996

WRITE (MOT,14) ID, (L(86,I),I=1,5),IR2FX	CAM	00997
WRITE (MOT,12) ID, (L(87,I),I=1,5),CSU,CS1,CS	CAM	00998
WRITE (MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	00999
GO TO 2700	CAM	01000
2630 CONTINUE	CAM	01001
T=RTOTS*MSHEL	CAM	01002
TERM1=(VBDUS*RSHEL+VBDONS*RTOTNS)/T	CAM	01003
TERM2=(1.-(1.-TERM1)**(T/XNRAB))/AMIN1(RPAK,(T/XNRAB))	CAM	01004
XS=AMAX1(0.0,1.-VBKRS*TERM2)	CAM	01005
XNS=AMAX1(0.0,1.-VBKRS*TERM2)	CAM	01006
TERMS=1.-XS** (RATP/XNRAB)	CAM	01007
TERMNS=1.-XNS** (RATP/XNRAB)	CAM	01008
RAKS=RTOTS*TERMS	CAM	01009
RSHELK(ID)=FKSK*RSHEL*TERMS	CAM	01010
RAKNS=RTOTNS*TERMNS	CAM	01011
WRITE (MOT,34) ID, T,TERM1,TERM2,TERMS,TERMNS	CAM	01012
WRITE (MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	01013
GO TO 2700	CAM	01014
2640 CONTINUE	CAM	01015
R4AN=(R4AN1*PBABA(1)+R4AN2*PBABA(2))/BATP	CAM	01016
R4AS=(R4AS1*PBABA(1)+R4AS2*PBABA(2))/BATP	CAM	01017
R4NS=(R4NS1*PBABA(1)+R4NS2*PBABA(2))/BATP	CAM	01018
R4SN=(R4SN1*PBABA(1)+R4SN2*PBABA(2))/BATP	CAM	01019
X4N=(1.-R4AL)*R4AN/R4B	CAM	01020
X4SN=(1.-R4AL)*R4AS/R4SN/R4B	CAM	01021
X4NS=(1.-R4AL)*R4AN*R4NS/R4B	CAM	01022
X4S=(1.-R4AL)*R4AS/R4B	CAM	01023
WRITE (MOT,12) ID, (L(88,I),I=1,5),R4AN,R4AS,R4NS,R4SN	CAM	01024
WRITE (MOT,12) ID, (L(89,I),I=1,5),X4N,X4NS,X4SN,X4S	CAM	01025
X4N=AMIN1(1.0,X4N)	CAM	01026
X4SN=AMIN1(1.0,X4SN)	CAM	01027
X4NS=AMIN1(1.0,X4NS)	CAM	01028
X4S=AMIN1(1.0,X4S)	CAM	01029
X4N=AMAX1(0.0,X4N)	CAM	01030
X4NS=AMAX1(0.0,X4NS)	CAM	01031
X4SN=AMAX1(0.0,X4SN)	CAM	01032
X4S=AMAX1(0.0,X4S)	CAM	01033
WRITE (MOT,12) ID, (L(90,I),I=1,5),X4N,X4NS,X4SN,X4S	CAM	01034
A1N=(1.-R4AL)*R4AN*BATP/(R4B*XNRAB)	CAM	01035
A2N=(R4AL*BATP/(R4B*XNRAB))*(R4AS*R4SN-R4AN)	CAM	01036
A0B=BATP/XNRAB	CAM	01037
A3=(1.-X4N)**A0B	CAM	01038
A4=(1.-X4SN)/(1.-X4N)**A0B	CAM	01039
A1S=R4AL*R4AN*BATP*R4NS/(R4B*XNRAB)+1.	CAM	01040
A2S=(R4AL*BATP/(R4B*XNRAB))*(R4AS-R4AN*R4NS)	CAM	01041
A2=A2S+A2N	CAM	01042
A5=(1.-X4NS)**A0B	CAM	01043
A6=(1.-X4S)/(1.-X4NS)**A0B	CAM	01044
WRITE (MOT,35) ID, A1N,A1S,A2N,A2S,A3,A4,A5,A6	CAM	01045
IF (RTOTS .LT. .0001) IR4EX= 11	CAM	01046
IF (RTOTS .LT. .0001) GO TO 2648	CAM	01047
IF (RTOTNS .LT. .0001) IR4EX= 12	CAM	01048
IF (RTOTNS .LT. .0001) GO TO 2649	CAM	01049
X0=F14(0.)	CAM	01050
X1=F14(1.)	CAM	01051
IF (X0 .GE. 0. .AND. X1 .GE. 0.) IR4EX= 22	CAM	01052
IF (X0 .GE. 0. .AND. X1 .GE. 0.) GO TO 2649	CAM	01053
IF (X0 .LE. 0. .AND. X1 .LE. 0.) IR4EX= 21	CAM	01054

	IF(X0 .LE. 0. .AND. X1 .LE. 0.) GO TO 2648	CAM	01055
2641	CONTINUE	CAM	01056
C		CAM	01057
C	USE NEWTONS METHOD	CAM	01058
C		CAM	01059
	IR4EX=30	CAM	01060
	Q0=.5	CAM	01061
	NTN=0	CAM	01062
2642	Q1=Q0-F14(Q0)/F24(Q0)	CAM	01063
	IF(AHS(Q1-Q0) .LI. EPS4) GO TO 2643	CAM	01064
	IF(NTN .GT. 100) STOP 446	CAM	01065
	Q0=Q1	CAM	01066
	NTN=NTN+1	CAM	01067
	GO TO 2642	CAM	01068
2643	Q=Q1	CAM	01069
	WRITE(MOT,14) ID, (L(91,I),I=1,5),IR4EX	CAM	01070
	WRITE(MOT,14) ID, (L(92,I),I=1,5),NTN,Q	CAM	01071
	TERMS=A15+A25*Q-A5*A6**Q	CAM	01072
	TERMNS=A1N+A2N*Q-A3*A4**Q	CAM	01073
	WRITE(MOT,12) ID, (L(93,I),I=1,5),TERMS,TERMNS	CAM	01074
	TERMS=AMIN1(1.0,TERMS)	CAM	01075
	WRITE(MOT,12) ID, (L(94,I),I=1,5),TERMS,TERMNS	CAM	01076
	RAKS=RTOTS*TERMS	CAM	01077
	RSHELK(ID)=FMSK*RSHEL*TERMS	CAM	01078
	RAKNS=RTOTNS*AMIN1(1.0,TERMNS)	CAM	01079
	WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	01080
	GO TO 2700	CAM	01081
2648	CONTINUE	CAM	01082
C		CAM	01083
C	USE ONLY ANTI-NONSHelterED-AIRCRAFT MUNITIONS	CAM	01084
C		CAM	01085
	TERMS=R4AL*R4AN*BATP/R4B*XNRAB)+1.-(1.-X4NS)**(BATP/XNRAB)	CAM	01086
	TERMNS=AMIN1(1.0,TERMS)	CAM	01087
	TERMNS=R4AL*R4AN*BATP/(R4B*XNRAB)+1.-(1.-X4N)**(BATP/XNRAB)	CAM	01088
	RAKS=RTOTS*TERMS	CAM	01089
	RSHELK(ID)=FMSK*RSHEL*TERMS	CAM	01090
	RAKNS=RTOTNS*AMIN1(1.0,TERMNS)	CAM	01091
	WRITE(MOT,14) ID, (L(95,I),I=1,5),IR4EX	CAM	01092
	WRITE(MOT,12) ID, (L(96,I),I=1,5),TERMS,TERMNS	CAM	01093
	WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	01094
	GO TO 2700	CAM	01095
2649	CONTINUE	CAM	01096
C		CAM	01097
C	USE ONLY ANTI-SHELTER MUNITIONS	CAM	01098
C		CAM	01099
	TERMS=(R4AL)*R4AS*BATP/(R4B*XNRAB)+1.-(1.-X4S)**(BATP/XNRAB)	CAM	01100
	TERMNS=AMIN1(1.0,TERMS)	CAM	01101
	TERMNS=R4AL*R4AS*BATP/R4B*XNRAB)+1.-(1.-X4SN)**(BATP/XNRAB)	CAM	01102
	RAKS=RTOTS*TERMS	CAM	01103
	RSHELK(ID)=FMSK*RSHEL*TERMS	CAM	01104
	RAKNS=RTOTNS*AMIN1(1.0,TERMNS)	CAM	01105
	WRITE(MOT,14) ID, (L(97,I),I=1,5),IR4EX	CAM	01106
	WRITE(MOT,12) ID, (L(98,I),I=1,5),TERMS,TERMNS	CAM	01107
	WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	01108
	GO TO 2700	CAM	01109
2648	CONTINUE	CAM	01110
	RAKS=RAKNS=RSHELK(ID)=0.0	CAM	01111
	IR4EX=40	CAM	01112

WRITE(MOT,14) ID, (L(99,I),I=1,5),IR*FX	CAM	01113
WRITE(MOT,26) ID, RAKS,RSHELK(ID),RAKNS	CAM	01114
2700 CONTINUE	CAM	01115
C TOTAL AIRCRAFT DESTRUCTION	CAM	01116
C	CAM	01117
XS= 0.0	CAM	01118
IF(BTOTNS .GT. .0001) XS=RAKS/BTOTNS	CAM	01119
XNS= 0.0	CAM	01120
IF(RTOTNS .GT. .0001) XNS=BAKNS/RTOTNS	CAM	01121
BAD(1, ID) = XS*BPOPS(1) + XNS*BPOPNS(1)	CAM	01122
DO 2701 MS=1,3	CAM	01123
BAD(1, ID) = BAD(1, ID) + BAKAA(1, MS) + BAL(1, MS)	CAM	01124
2701 CONTINUE	CAM	01125
IF(NKBA .EQ. 1) GO TO 2703	CAM	01126
DO 2702 KBA=2,4	CAM	01127
MS=KBA-1	CAM	01128
BAD(KBA, ID) = XS*BPOPS(KBA) + XNS*BPOPNS(KBA) + BAKAA(2, MS) + BAL(2, MS)	CAM	01129
2702 CONTINUE	CAM	01130
2703 CONTINUE	CAM	01131
WRITE(MOT,150) ID	CAM	01132
150 FORMAT(1H0,34HTOTAL AIRCRAFT DESTRUCTION FOR DAY , 14)	CAM	01133
WRITE(MOT,12) ID, (L(100,I),I=1,5),BTOTNS,RTOTNS,BTOT	CAM	01134
WRITE(MOT,12) ID, (L(101,I),I=1,5),XS,XNS	CAM	01135
WRITE(MOT,12) ID, (L(102,I),I=1,5), (BAD(KBA, ID), KBA=1,4)	CAM	01136
XS= 0.0	CAM	01137
IF(BTOTNS .GT. .0001) XS=RAKS/RTOTNS	CAM	01138
XNS= 0.0	CAM	01139
IF(RTOTNS .GT. .0001) XNS=RAKNS/RTOTNS	CAM	01140
RAD(1, ID) = XS*RPOPS(1) + XNS*RPOPNS(1)	CAM	01141
DO 2706 MS=1,3	CAM	01142
RAD(1, ID) = RAD(1, ID) + RAKAA(1, MS) + RAL(1, MS)	CAM	01143
2706 CONTINUE	CAM	01144
IF(NKRA .EQ. 1) GO TO 2708	CAM	01145
DO 2707 KRA=2,4	CAM	01146
MS=KRA-1	CAM	01147
RAD(KRA, ID) = XS*RPOPS(KRA) + XNS*RPOPNS(KRA) + RAKAA(2, MS) + RAL(2, MS)	CAM	01148
2707 CONTINUE	CAM	01149
2708 CONTINUE	CAM	01150
WRITE(MOT,12) ID, (L(103,I),I=1,5),BTOTNS,RTOTNS,BTOT	CAM	01151
WRITE(MOT,12) ID, (L(104,I),I=1,5),XS,XNS	CAM	01152
WRITE(MOT,12) ID, (L(105,I),I=1,5), (RAD(KRA, ID), KRA=1,4)	CAM	01153
C	CAM	01154
C --- AIR FIREPOWER FOR ID -- B AND R	CAM	01155
C	CAM	01156
BAF(ID) = 0.0	CAM	01157
RAF(ID) = 0.0	CAM	01158
DO 2801 TY=1,2	CAM	01159
BAF(ID) = BAF(ID) + BS(TY,1)*FBA(TY)	CAM	01160
RAF(ID) = RAF(ID) + RS(TY,1)*FRA(TY)	CAM	01161
2801 CONTINUE	CAM	01162
C	CAM	01163
C TOTAL FIREPOWER FOR ID--B AND R	CAM	01164
C	CAM	01165
BF(ID) = BGF(ID) + BAF(ID)	CAM	01166
RF(ID) = RGF(ID) + RAF(ID)	CAM	01167
C	CAM	01168
C FEBA FOR ID	CAM	01169
C	CAM	01170

C	FRFR = RF(ID)/BF(ID)	CAM	01171
	IF (BF(ID) .LT. RF(ID)) GO TO 2802	CAM	01172
	CALL CVFX (NFRFA, FRFA, FA, FRFR, DFERA)	CAM	01173
	GO TO 2805	CAM	01174
2802	CONTINUE	CAM	01175
	FRFR = RF(ID)/BF(ID)	CAM	01176
	CALL CVFX(NFRFA,FRFA,FA,FRFR,DFERA)	CAM	01177
	DFERA=DFERA	CAM	01178
2805	CONTINUE	CAM	01179
	IF (ID-1) 2810,2810,2820	CAM	01180
2810	FEBA(ID)=DFERA	CAM	01181
	GO TO 2850	CAM	01182
2820	IDM1=ID-1	CAM	01183
	FEBA(ID)=FEBA(IDM1)+DFERA	CAM	01184
		CAM	01185
C	---	CAM	01186
C	--- DIVISION DESTRUCTION FOR ID	CAM	01187
C		CAM	01188
2850	CONTINUE	CAM	01189
	IF (IHEPLB .EQ. 0) GO TO 2851	CAM	01190
	BDD(1, ID)=BDD(2, ID)+BDD(3, ID)+BDD(4, ID)=0.0	CAM	01191
	GO TO 2855	CAM	01192
2851	CALL CVFX(NFRBD,FRBD,BD,FRBR,PBDID)	CAM	01193
	DO 2852 KBD=1,NKBD	CAM	01194
2852	BDD(KBD, ID)=BDI(KBD, ID)*PBDID	CAM	01195
2855	IF (IHEPLR .EQ. 0) GO TO 2856	CAM	01196
	RDD(1, ID)=RDD(2, ID)+RDD(3, ID)+RDD(4, ID)=0.0	CAM	01197
	GO TO 2860	CAM	01198
2856	CALL CVFX(NFRRD,FRRD,RD,FRBR,PRDID)	CAM	01199
	DO 2857 KRD=1,NKRD	CAM	01200
2857	RDD(KRD, ID) = RDI(KRD, ID)*PRDID	CAM	01201
2860	CONTINUE	CAM	01202
		CAM	01203
C	---	CAM	01204
C	--- CUMULATIVE TOTAL AND AIR FIREPOWER -- R AND R	CAM	01205
C		CAM	01206
2870	IF (ID-1) 2875,2875,2880	CAM	01207
2875	CBF(ID)=BF(ID)	CAM	01208
	CRF(ID) = RF(ID)	CAM	01209
	CBAF(ID) = BAF(ID)	CAM	01210
	CRAF(ID) = RAF(ID)	CAM	01211
	GO TO 2900	CAM	01212
C		CAM	01213
2880	IDM1=ID-1	CAM	01214
	CBF(ID) = CBF(IDM1) + BF(ID)	CAM	01215
	CRF(ID) = CRF(IDM1) + RF(ID)	CAM	01216
	CBAF(ID) = CBAF(IDM1) + BAF(ID)	CAM	01217
	CRAF(ID) = CRAF(IDM1) + RAF(ID)	CAM	01218
2900	CONTINUE	CAM	01219
		CAM	01220
C	---	CAM	01221
C	--- END OF DO LOOP ON ID	CAM	01222
C		CAM	01223
3000	CONTINUE	CAM	01224
		CAM	01225
C	PRINT RESULTS OVER WHOLE WAR	CAM	01226
	CALL PRINTS	CAM	01227
C		CAM	01228
9999	CONTINUE	CAM	01227
	RETURN	CAM	01228

END

CAM 01229

E. SUBROUTINE CVFX

Subroutine CVFX is the same as in the game program (a listing appears in Vol. 2, Ch. IV, Sec. H).

F. SUBROUTINE CAMCLR

Subroutine CAMCLR is the same as in the game program (a listing appears in Vol. 2, Ch. IV, Sec. I).

G. SUBROUTINE PRINTS

SUBROUTINE PRINTS		PRINTS	00002
CDUPDIM	COMMON NKBU, NKMU, NKRA, NKRA	MATN	
	COMMON NID	MATN	
	COMMON NP0, IDL1, IDU1, IDL2, IDU2, IDL3, IDU3	MATN	
	COMMON IR0, JR0, KR0	MATN	
	COMMON IPRV, TPHU	MATN	
	COMMON IREPLR, IKEPLR	MATN	
	COMMON BDA(3,90), MDA(3,90)	MATN	
	COMMON BAA(4,90), RAA(4,90)	MATN	
	COMMON DBQHA, DMWHA	MATN	
	COMMON SHEL(90), SHEL(90), PBSHEL, PRSHEL	MATN	
	COMMON BSHELK(90), RSHELK(90)	MATN	
	COMMON FBD(3), FRD(3), FBA(2), FRA(2)	MATN	
	COMMON IDBSKC, IDRSKC	MATN	
	COMMON SORRB1(2,3), SORRB2(2,3), SORRR1(2,3), SORRR2(2,3)	MATN	
	COMMON IAA, XNBAA, XNRAA, BALPHA(2,2), RALPHA(2,2)	MATN	
	COMMON BIDRA(2,4), BADRI(4,2), RIDBA(2,4), RADBI(4,2)	MATN	
	COMMON BIKRA(2,4), BAKRI(4,2), RIRBA(2,4), RAKBI(4,2)	MATN	
	COMMON BSAMZK(2,2), RSAMZB(2,2)	MATN	
	COMMON IR3SH, BFRAC1, BFRAC2, RFRAC1, RFRAC2, FB5K, FR5K	MATN	
	COMMON BPASS(2), RPASS(2)	MATN	
	COMMON IBABA, IMABA, XNBAH, XNRAB, BPARK, RPARK	MATN	
	COMMON BGRS(2), BGRNS(2), BKRS(2), BKRNS(2)	MATN	
	COMMON RDBS(2), RDBNS(2), RKBS(2), RKBNS(2)	MATN	
	COMMON B4B, B4AL, B4ANI, B4AN2, B4AS1, R4AS2, B4NS1, B4NS2, B4SN1, B4SN2	MATN	
	COMMON R4B, R4AL, R4ANI, R4AN2, R4AS1, R4AS2, R4NS1, R4NS2, R4SN1, R4SN2	MATN	
	COMMON EPS4	MATN	
	COMMON NFRFA, FHFA(15), FA(15)	MATN	
	COMMON NFRBD, FRBD(15), BD(15)	MATN	
	COMMON NFRKD, FKRD(15), RD(15)	MATN	
	COMMON NB, NR	MATN	
	COMMON PB(20,3), PR(20,3)	MATN	
	COMMON PROPB(3,3), PROPR(3,3)	MATN	
	COMMON MOE, MOET	MATN	
	COMMON BCWGT, BSWGT(3), BCWGT(2), RCWGT, RSWGT(3), RCWGT(2)	MATN	
	COMMON GVA	MATN	
C	COMMON BDI(3,90), HDI(3,90)	MATN	
	COMMON BDD(3,90), RDN(3,90)	MATN	
	COMMON BGF(90), RGF(90)	MATN	
	COMMON BAI(4,90), RAI(4,90)	MATN	
	COMMON BAD(4,90), RAD(4,90)	MATN	
	COMMON BAF(90), RAF(90)	MATN	
	COMMON BF(90), RF(90)	MATN	
	COMMON FEBA(90)	MATN	
	COMMON CBF(90), CRF(90)	MATN	
	COMMON CBAF(90), CRAF(90)	MATN	
C		MATN	
CDUPDIM		PRINTS	00003
	DIMENSION L1(57), L2(57)	PRINTS	00004
	DATA L1/ 3*4HBDA(,3*4HBDI(,3*4HBDD(,3HRGF,4*4HBAA(,4*4HBAI(,	PRINTS	00005
	4*4HBAD(,4HSHEL,4HBSHE,3HBAF,2HBF,	PRINTS	00006
	X 3*4HMDA(,3*4HMDI(,3*4HRDU(,3HRGF,4*4HRAA(,4*4HRAI(,	PRINTS	00007
	4*4HRAO(,4HSHEL,4HRSHE,3HRAF,2HRF,	PRINTS	00008
	4HFEDA,3HCBF,3HCRF,4HCBAF,4HCRAF /	PRINTS	00009
	DATA L2/ 2H1,2H2,2H3,2H1,2H2,2H3,2H1,2H2,2H3,1H,2H1,	PRINTS	00010

A2H2,,2H3,,2H4,,2H1,,2H2,,2H3,,2H4,,2H1,,2H2,,2H3,,2H4,,14B,2HLK,	PRINTS	00011
A2*1H , 2H1,,2H2,,2H3,,2H1,,2H2,,2H3,,2H1,,2H2,,2H3,,1H ,2H1,,	PRINTS	00012
X2H2,,2H3,,2H4,,2H1,,2H2,,2H3,,2H4,,2H1,,2H2,,2H3,,2H4,,1WR,2HLK,	PRINTS	00013
X 7*1H /	PRINTS	00014
MOT=6	PRINTS	00015
WRITE(MOT,156)	PRINTS	00016
156 FORMAT(1H1,2NHSTRATEGIES,BY PERIOD /1H ,15X, 10H BLUE ,30X,	PRINTS	00017
1 6H RFD /1H ,30H CAS ABA INT ,10X,	PRINTS	00018
2 30H CAS ABA INT)	PRINTS	00019
DO 57 IPD=1,3	PRINTS	00020
WRITE(MOT,54) IPD,(PROPR(MS,IPD),MS=1,3),(PROPR(MS,IPD),MS=1,3)	PRINTS	00021
56 FORMAT(1H ,12,3F10.4,10X,3F10.4)	PRINTS	00022
57 CONTINUE	PRINTS	00023
WRITE(MOT,1)	PRINTS	00024
1 FORMAT(1H1/)	PRINTS	00025
700 FORMAT(1M0,2A*,10F12.3/(1H ,8X,10F12.3))	PRINTS	00026
K=1	PRINTS	00027
WRITE(MOT,700) L1(K),L2(K), (BDA(1,1D),ID=1,NID)	PRINTS	00028
K=K+1	PRINTS	00029
WRITE(MOT,700) L1(K),L2(K), (BDA(2,1D),ID=1,NID)	PRINTS	00030
K=K+1	PRINTS	00031
WRITE(MOT,700) L1(K),L2(K), (BDA(3,1D),ID=1,NID)	PRINTS	00032
K=K+1	PRINTS	00033
WRITE(MOT,700) L1(K),L2(K), (BDI(1,1D),ID=1,NID)	PRINTS	00034
K=K+1	PRINTS	00035
WRITE(MOT,700) L1(K),L2(K), (BDI(2,1D),ID=1,NID)	PRINTS	00036
K=K+1	PRINTS	00037
WRITE(MOT,700) L1(K),L2(K), (BDI(3,1D),ID=1,NID)	PRINTS	00038
K=K+1	PRINTS	00039
WRITE(MOT,700) L1(K),L2(K), (BDD(1,1D),ID=1,NID)	PRINTS	00040
K=K+1	PRINTS	00041
WRITE(MOT,700) L1(K),L2(K), (BDD(2,1D),ID=1,NID)	PRINTS	00042
K=K+1	PRINTS	00043
WRITE(MOT,700) L1(K),L2(K), (BDD(3,1D),ID=1,NID)	PRINTS	00044
K=K+1	PRINTS	00045
WRITE(MOT,700) L1(K),L2(K), (BGF(1D),ID=1,NID)	PRINTS	00046
K=K+1	PRINTS	00047
WRITE(MOT,700) L1(K),L2(K), (BAA(1,1D),ID=1,NID)	PRINTS	00048
K=K+1	PRINTS	00049
WRITE(MOT,700) L1(K),L2(K), (BAA(2,1D),ID=1,NID)	PRINTS	00050
K=K+1	PRINTS	00051
WRITE(MOT,700) L1(K),L2(K), (BAA(3,1D),ID=1,NID)	PRINTS	00052
K=K+1	PRINTS	00053
WRITE(MOT,700) L1(K),L2(K), (BAA(4,1D),ID=1,NID)	PRINTS	00054
K=K+1	PRINTS	00055
WRITE(MOT,700) L1(K),L2(K), (BAI(1,1D),ID=1,NID)	PRINTS	00056
K=K+1	PRINTS	00057
WRITE(MOT,700) L1(K),L2(K), (BAI(2,1D),ID=1,NID)	PRINTS	00058
K=K+1	PRINTS	00059
WRITE(MOT,700) L1(K),L2(K), (BAI(3,1D),ID=1,NID)	PRINTS	00060
K=K+1	PRINTS	00061
WRITE(MOT,700) L1(K),L2(K), (BAI(4,1D),ID=1,NID)	PRINTS	00062
K=K+1	PRINTS	00063
WRITE(MOT,700) L1(K),L2(K), (BAD(1,1D),ID=1,NID)	PRINTS	00064
K=K+1	PRINTS	00065
WRITE(MOT,700) L1(K),L2(K), (BAD(2,1D),ID=1,NID)	PRINTS	00066
K=K+1	PRINTS	00067
WRITE(MOT,700) L1(K),L2(K), (BAD(3,1D),ID=1,NID)	PRINTS	00068


```

K=K+1
WRITE(MOT,700) L1(K),L2(K), ( BAO(4,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( SHELK(IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( BSHELK(IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( BAF(IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RF(IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDA(1,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDA(2,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDA(3,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDI(1,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDI(2,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDI(3,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDD(1,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDD(2,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RDD(3,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RGF(IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAA(1,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAA(2,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAA(3,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAA(4,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAI(1,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAI(2,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAI(3,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAI(4,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAD(1,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAD(2,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAD(3,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( RAD(4,IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( SHELK(IO),IU=1,NID)
K=K+1
WRITE(MOT,700) L1(K),L2(K), ( BSHELK(IO),IU=1,NID)

```

```

PRINTS 00069
PRINTS 00070
PRINTS 00071
PRINTS 00072
PRINTS 00073
PRINTS 00074
PRINTS 00075
PRINTS 00076
PRINTS 00077
PRINTS 00078
PRINTS 00079
PRINTS 00080
PRINTS 00081
PRINTS 00082
PRINTS 00083
PRINTS 00084
PRINTS 00085
PRINTS 00086
PRINTS 00087
PRINTS 00088
PRINTS 00089
PRINTS 00090
PRINTS 00091
PRINTS 00092
PRINTS 00093
PRINTS 00094
PRINTS 00095
PRINTS 00096
PRINTS 00097
PRINTS 00098
PRINTS 00099
PRINTS 00100
PRINTS 00101
PRINTS 00102
PRINTS 00103
PRINTS 00104
PRINTS 00105
PRINTS 00106
PRINTS 00107
PRINTS 00108
PRINTS 00109
PRINTS 00110
PRINTS 00111
PRINTS 00112
PRINTS 00113
PRINTS 00114
PRINTS 00115
PRINTS 00116
PRINTS 00117
PRINTS 00118
PRINTS 00119
PRINTS 00120
PRINTS 00121
PRINTS 00122
PRINTS 00123
PRINTS 00124
PRINTS 00125
PRINTS 00126

```

```

K=K+1
WRITE (MOT,700) L1(K),L2(K), (   RAF(JD),ID=1,NID)
K=K+1
WRITE (MOT,700) L1(K),L2(K), (   RF(JD),ID=1,NID)
K=K+1
WRITE (MOT,700) L1(K),L2(K), ( FEHA(JD),ID=1,NID)
K=K+1
WRITE (MOT,700) L1(K),L2(K), (   CHF(JD),ID=1,NID)
K=K+1
WRITE (MOT,700) L1(K),L2(K), (   CRF(JD),ID=1,NID)
K=K+1
WRITE (MOT,700) L1(K),L2(K), ( CBAF(JD),ID=1,NID)
K=K+1
WRITE (MOT,700) L1(K),L2(K), ( CRAF(JD),ID=1,NID)
C
RETURN
END

```

```

PRINTS 00127
PRINTS 00128
PRINTS 00129
PRINTS 00130
PRINTS 00131
PRINTS 00132
PRINTS 00133
PRINTS 00134
PRINTS 00135
PRINTS 00136
PRINTS 00137
PRINTS 00138
PRINTS 00139
PRINTS 00140
PRINTS 00141
PRINTS 00142
PRINTS 00143

```



Chapter III

SAMPLE OUTPUT

The same sample problem as in Volume 2 has been used: a two--period, 30-day war with allocation changes on days 1 and 11. The optimal strategy for this game (that was found by the game program) was put through the print-run program to determine the levels of various variables through the course of the war if both sides play optimally. Observe that in the third section of the output (Sec. C of this chapter, below) that the variable FEBA(30)--which is the last entry in the 13th line from the bottom--is 4.167, which is the game value found by the game program (Vol. 2, Ch. V, Sec. C1 or C2). The values of the second two measures of effectiveness when the strategy optimal for FEBA position is played can be found from this output. In Section C, CBF(30) \approx 2350 (last entry, 10th line from the bottom) and CRF(30) \approx 2460 (last entry, seventh line from the bottom); hence, the second MOE is $2350 - 2460 = -110$ firepower units. Similarly, CBAF(30) \approx 555 (last entry, fourth line from the bottom) and CRAF(30) \approx 1393 (last entry, bottom line); hence, the third MOE is $555 - 1393 = -838$ firepower units.

The optimal strategy for the sample problem (optimizing on FEBA position--i.e., MOE = 1) is for Blue and Red both to play pure strategy 6 (all INT) in the first period and for Blue to play pure strategy 2 (half CAS, half ABA) and Red to play pure strategy 1 (all CAS) in the second period. In the print-run output, these pure strategies show up as the allocations for periods 2 and 3, respectively. The variables PROPB(MS,1) and PROPR(MS,1) are not used in a two-period war.

A. SAMPLE OUTPUT OF INPUT VARIABLES

NKBD, NKRD, NKBA, NKRA	3	3	4	4
NID	30			
NPD, IDL2, IDL3	2	1	11	
IRO, JKO, KRO	-0	6	1	
IPRV, IPRU	1	1		
IREPLB, IREPLR	0	0		

BQA (KBD, ID)

24.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	6.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	6.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
12.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	3.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	3.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

RDA (KRD, ID)

80.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	20.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
40.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	10.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
10.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	2.0	-0.0	-0.0	-0.0	-0.0
-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0	-0.0

BAA (KBA, ID)

1500	-0	-0	-0	75	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	75	-0	-0	-0	-0	-0	-0
-0	-0	-0	75	-0	-0	-0	-0
300	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
200	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	40	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
200	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0

RAA (KRA, ID)

2500	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
300	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
400	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
500	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0
-0	-0	-0	-0	-0	-0	-0	-0

DBQRA, DRQRA

200.0	200.0		
PBSHEL			
1000			
PRSHEL			
2000			
FBD(KBD)			
10.0	8.0	6.0	
FRD(KRD)			
6.0	5.0	4.0	
(FBA(KBA),KBA=1,2)			
.10000	.15000		
(FRA(KRA),KRA=1,2)			
.06000	.08000		
IDBSRC, IDRSRC			
5	4		
((SORRB1(TY,MS),MS=1,3),TY=1,2)			
2.0000	2.5000	2.5000	
2.0000	3.0000	1.5000	
((SORRB2(TY,MS),MS=1,3),TY=1,2)			
1.0000	1.5000	1.0000	
.7000	1.0000	.6000	
((SOHRR1(TY,MS),MS=1,3),TY=1,2)			
3.0000	2.5000	2.5000	
3.0000	2.0000	2.0000	
((SOHRR2(TY,MS),MS=1,3),TY=1,2)			
1.7000	1.5000	1.5000	
1.7000	1.0000	.8000	
IAA			
1			
XNBAA,XNRRA			
1.0	1.0		
((BALPHA(TY,MS),MS=1,2),TY=1,2)			
.80000	.60000		
.80000	.60000		
((RALPHA(TY,MS),MS=1,2),TY=1,2)			
.50000	.40000		
.50000	.40000		
((BIDRA(TYI,KAT),KAT=1,4),TYI=1,2)			
.00100	.00100	.00100	.00100
.00150	.00150	.00200	.00200
((BIKRA(TYI,KAT),KAT=1,4),TYI=1,2)			
.30000	.30000	.30000	.30000
.50000	.50000	.50000	.50000
((BADRI(KAT,TYI),TYI=1,2),KAT=1,4)			
.00100	.00100		
.00100	.00100		
.00100	.00100		
.00100	.00100		
((BAKRI(KAT,TYI),TYI=1,2),KAT=1,4)			
.10000	.10000		
.10000	.10000		
.10000	.10000		
.10000	.10000		


```

((RIUBA(TY1,KAT),KAT=1,4),TYI=1,2)
.00050 .00050 .00050 .00050
.00100 .00100 .00100 .00100
-----
((RIKBA(TYI,KAT),KAT=1,4),TYI=1,2)
.20000 .20000 .20000 .20000
.30000 .30000 .30000 .30000
-----
((RADBI(KAT,TYI),TYI=1,2),KAT=1,4)
.00050 .00050
.00050 .00050
.00050 .00050
.00050 .00050
-----
((RAKBI(KAT,TYI),TYI=1,2),KAT=1,4)
.10000 .10000
.10000 .10000
.10000 .10000
.10000 .10000
-----
((BSAMZR(TY,MS),MS=1,2),TY=1,2)
.0500 .1000
.0500 .1000
-----
((RSAMZB(TY,MS),MS=1,2),TY=1,2)
.0500 .1000
.0500 .1000
-----
IR3SH
1
-----
BFRAC1,BFRAC2
.800 .900
-----
RFRAC1,RFRAC2
.700 .900
-----
FBSK,FRSK
1.000 .500
-----
(BPASS(TY),TY=1,2)
1.00 1.00
-----
(RPASS(TY),TY=1,2)
1.00 1.00
-----
IBABA==BLUE ATTACKS RED AIRBASE USING MODE 1
IRABA==RED ATTACKS BLUE AIRBASE USING MODE 1
-----
XNBAB,XNRAB
20.0 20.0
-----
BPARK,RPARK
10000.0 10000.0
-----
BORS B GP B SP ABA
.01000 .01000
BDRNS .02000 .02000
BKRS .40000 .40000
BKRNS .60000 .60000
-----
RDBS R GP R SP ABA
.01000 .01000
RDBNS .02000 .02000
RKBS .20000 .20000

```

RKBNS .30000 .30000

B4B,B4AL,B4AN1,B4AN2,B4AS1,B4AS2,B4NS1,B4NS2,B4SN1,B4SN2
 1000000.0 0.0000 10000.0 20000.0 15000.0 15000.0 0.0000 0.0000 1.0000 1.0000

R4B,R4AL,R4AN1,R4AN2,R4AS1,R4AS2,R4NS1,R4NS2,R4SN1,R4SN2
 1000000.0 0.0000 10000.0 20000.0 15000.0 15000.0 0.0000 0.0000 1.0000 1.0000

EPS4
 .00010

NFRFA,FRFA(I),FA(I)

11								
.10	.20	.33	.50	.67	1.00	1.50	2.00	
3.00	5.00	10.00						
-60.0	-40.0	-20.0	-10.0	-2.0	0.0	2.0	10.0	
20.0	40.0	60.0						

NFRBD,FRBD(I),BD(I)

11								
.10	.20	.33	.50	.67	1.00	1.50	2.00	
3.00	5.00	10.00						
.020	.014	.010	.009	.008	.008	.008	.007	
.005	.003	.002						

NFRRU,FRRU(I),RD(I)

11								
.10	.20	.33	.50	.67	1.00	1.50	2.00	
3.00	5.00	10.00						
.002	.003	.005	.007	.008	.008	.008	.009	
.010	.014	.020						

NR, NR

	6	6
PB (IA, MS), MS=1,3)		
1.000	0.000	0.000
.500	.500	0.000
0.000	1.000	0.000
.500	0.000	.500
0.000	.500	.500
0.000	0.000	1.000

PR (IA, MS), MS=1,3)		
1.000	0.000	0.000
.500	.500	0.000
0.000	1.000	0.000
.500	0.000	.500
0.000	.500	.500
0.000	0.000	1.000

MOE,MOET	
1	30
BCWGT	
0.000	
(BSWGT(MS),MS=1,3)	
1.000	1.000 1.000
(BCWGT(I),I=1,2)	
1.000	0.000
RCWGT	
0.000	
(RSWGT(MS),MS=1,3)	
0.000	0.000 0.000
(RCWGT(I),I=1,2)	
0.000	0.000
GVA	
10000	

B. DAILY RESULTS

	STRATEGIES BY PERIOD				
	BLUE		RED		
	CAS	ABA	INT	ABA	INT
1	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
2	0.0000	0.0000	1.0000	0.0000	1.0000
3	.5000	.5000	0.0000	0.0000	0.0000

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY									
1	HS(TY*MS)	0.00000	0.00000	3250.00000	500.00000	500.00000	500.00000	500.00000	300.00000
1	BA(TY*MS)	0.00000	0.00000	1300.00000	300.00000	300.00000	300.00000	200.00000	200.00000
1	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	MANF(TY*MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY									
1	RS(TY*MS)	0.00000	0.00000	5750.00000	900.00000	900.00000	900.00000	1000.00000	1000.00000
1	RA(TY*MS)	0.00000	0.00000	2300.00000	300.00000	300.00000	400.00000	500.00000	500.00000
1	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	MANF(TY*MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION									
1	IRIHA,IBARI	0	0	0	0	0	0	0	0
1	RATS,RATSI	1700.00000	1700.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	BITS,BITSI	3550.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	VRIDBA(TYI)	.00050	.00100	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	VRADBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	RSFNG(TY*MS)	3.87500	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	DENOM	.R4416	.15584	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	BPENGT(Y)	0.00000	0.00000	64.64185	273.09039	273.09039	273.09039	11.93388	11.93388
1	BKAA(TY*MS)	0.00000	0.00000	25.85674	136.54519	91.03013	91.03013	7.95592	7.95592
1	BKAA(TY*MS)	0.00000	0.00000	0.00000	57.63524	115.35048	115.35048	0.00000	0.00000
1	HSPH(TY*MS)	0.00000	0.00000	0.00000	28.83762	38.45016	38.45016	0.00000	0.00000
1	HSPH(TY*MS)	0.00000	0.00000	0.00000	269.23437	211.55913	211.55913	288.06612	288.06612
1	RS(TY*MS)	0.00000	0.00000	3185.35815	134.61719	70.51971	70.51971	192.04408	192.04408
1	BA(TY*MS)	0.00000	0.00000	1274.14326	0.00000	0.00000	0.00000	0.00000	0.00000
ATTRITION TO RED IN AIR-TO-AIR INTERACTION									
1	RATS,RATSI	1200.00000	1200.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	RITS,RITSI	6750.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	VRIDBA(TYI)	.00100	.00200	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	VRADBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	RSENG(TY*MS)	3.87500	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	DENOM	.74194	.25006	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1	BPENGT(Y)	0.00000	0.00000	24.99432	382.91664	340.37035	340.37035	8.69368	8.69368
1	RKAA(TY*MS)	0.00000	0.00000	9.99773	170.63888	170.18517	170.18517	4.34684	4.34684
1	RKAA(TY*MS)	0.00000	0.00000	0.00000	179.06940	191.00736	191.00736	0.00000	0.00000
1	RSPB(TY*MS)	0.00000	0.00000	0.00000	59.68940	95.50368	95.50368	0.00000	0.00000
1	RSPB(TY*MS)	0.00000	0.00000	5725.00564	338.01396	268.62229	268.62229	991.30632	991.30632
1	RS(TY*MS)	0.00000	0.00000	2290.00227	112.67132	134.31115	134.31115	495.65316	495.65316
1	BA(TY*MS)	0.00000	0.00000	0.00000	13.46172	21.15591	21.15591	0.00000	0.00000
1	BAL(TY*MS)	0.00000	0.00000	6.73086	7.05197	7.05197	7.05197	0.00000	0.00000
1	BS(TY*MS)	0.00000	0.00000	3185.35815	255.72255	190.40352	190.40352	288.06612	288.06612
1	BA(TY*MS)	0.00000	0.00000	1274.14326	127.88633	63.67774	63.67774	192.04408	192.04408
RED LOSSES TO ENEMY SAMS									
1	RSL(TY*MS)	0.00000	0.00000	16.90070	26.86223	26.86223	26.86223	0.00000	0.00000
1	RAL(TY*MS)	0.00000	0.00000	5.63357	13.43111	13.43111	13.43111	0.00000	0.00000
1	RS(TY*MS)	0.00000	0.00000	5725.00564	321.11326	241.76006	241.76006	991.30632	991.30632
1	RA(TY*MS)	0.00000	0.00000	2290.00227	107.03775	120.88003	120.88003	495.65316	495.65316
BLUE AIRBASE=BLUE LOSSES CAUSED BY RED ATTACK MODE									
1	RAVUL(KBA)	1274.14326	156.72395	101.91790	192.04408	192.04408	192.04408	0.00000	0.00000
1	ARORA,ARORAS,RSHEL,RSHEL1	200.00000	200.00000	1000.00000	800.00000	800.00000	800.00000	0.00000	0.00000
1	RAVUL,ABGRAN,RSHEL1	1724.82919	0.00000	800.00000	800.00000	800.00000	800.00000	0.00000	0.00000
1	BPOPS(KBA)	472.77243	58.15261	37.81676	71.25819	71.25819	71.25819	0.00000	0.00000
1	BPOPS(KBA)	546.54218	67.22654	43.17564	82.37707	82.37707	82.37707	0.00000	0.00000

1	1	RPOPS(KRA)	58,13581	37,41676	71,58114
1	1	RPOPS(KBA)	67,22084	43,71756	82,37707
1	1	HTOTS,HTOTNS,HTOT	739,86335	1574,86334	
1	1	PRABA(TY),RATP	241,76000	241,76006	
1	1	VRDRS,VRKRS,VRDRMS,VRKRN	.20000	.02000	.30000
1	1	TERMS1,TERMS2,TERMN1,TERMN2	.00901	.00427	.05040
1	1	BKRS,RSHELK(ID),RKN	9,00001	37,28704	
1	1	RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE			
1	1	RAVUL(KRA)	166,72755	216,38371	495,65316
1	1	AROKA,ARORAS,RSHEL,RSHEL1	200,00000	2000,00000	1800,00000
1	1	RAVUL,ARORAN,RSHEL1	0,00000	1800,00000	
1	1	RPOPS(KRA)	71,15497	0,00000	211,53183
1	1	RPOPS(KRA)	45,55432	151,46860	135,42538
1	1	RPOPS(KRA)	71,15497	0,00000	211,53183
1	1	RPOPS(KRA)	1177,31320	0,00000	135,42538
1	1	RPOPS(KRA)	625,66839	151,46860	
1	1	RTOTS,RTOTNS,RTOT	958,13669	2418,13669	
1	1	PRABA(TY),RATP	190,40322	190,40322	
1	1	VRDRS,VRKRS,VRDRMS,VRKRN	.40000	.02000	.60000
1	1	TERMS1,TERMS2,TERMN1,TERMN2	.00913	.00777	.07154
1	1	BKRS,RSHELK(ID),RKN	9,13395	68,54270	

TOTAL AIRCRAFT DESTRUCTION FOR DAY 1

1	1	BTOTS,BTOTNS,HTOT	739,86335	1579,86335	
1	1	XS,XNS	.05040		
1	1	BAD,KBA, ID, KBA=1,4	59,46128	100,62600	12,74939
1	1	RTOTS,RTOTNS,RTOT	1460,00000	2418,13669	
1	1	XS,XNS	.00913	.07154	
1	1	RAD(KRA, ID), KRA=1,4	65,51143	194,445197	15,96695

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY

2	2	BS(TY,MS)	0,00000	3101,34681	298,12201	280,87592
2	2	BATY,MS)	0,00000	1240,53872	99,37400	187,25061
2	2	HANAS	0,00000	0,00000	0,00000	0,00000
2	2	HANF(TY,MS)	0,00000	0,00000	0,00000	0,00000
2	2	RS(TY,MS)	0,00000	5586,22142	488,45636	968,06610
2	2	HA(TY,MS)	0,00000	2234,48857	162,81879	484,03305
2	2	RANAS	0,00000	0,00000	0,00000	0,00000

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION

2	2	IRIRA,IBARI	899,55241	899,55241		
2	2	RATS,RATSI	3382,22273	0,00000		
2	2	BITS,BITSI	.00050	.00100		
2	2	VRUBRA(TY)	0,00000	0,00000	0,00000	
2	2	VRUBRI(KAT)	0,00000	0,00000	0,00000	
2	2	DENOM	3,76118		292,38593	285,20874
2	2	PFENG(TY)	.84665	.15335		
2	2	BKAA(TY,MS)	0,00000	0,00000	153,92195	6,77878
2	2	BAKAA(TY,MS)	0,00000	14,96984	76,96098	4,51919
2	2	BSEB(TY,MS)	0,00000	0,00000	27,69280	54,02604
2	2	BAB(TY,MS)	0,00000	0,00000	13,84640	18,00858
2	2	BS(TY,MS)	0,00000	3063,92520	124,00941	93,95223
2	2	BA(TY,MS)	0,00000	1225,56888	62,00870	31,31144

ATTRITION TO RED IN AIR-TO-AIR INTERACTION

2	2	RATS,RATSI	603,74617	603,74617		
2	2	VRUBRA(TY)	6554,28752	0,00000		
2	2	VRUBRI(KAT)	.00100	.00200		
2	2	RSENG(TY,MS)	0,00000	0,00000	0,00000	
2	2	DENOM	3,76118		439,84815	370,18459

2	MENDLTY	7262	0.00000	0.00000	0.00000	0.00000	12.11464	256.38653	215.78077	4.44143
2	RSKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	5.12584	85.46218	107.89039	2.22072
2	RAKA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	91.72961	92.64229	0.00000
2	RSFR(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	10.57660	46.32114	0.00000
2	RAFIB(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	5573.40679	140.34002	102.67299	963.62466
2	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	2259.36272	46.78001	51.33650	481.81233
2	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	6.20047	9.39583	0.00000
2	BAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	3063.92228	3.10024	3.13174	0.00000
2	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	1225.56884	117.80894	84.95710	274.09714
2	BA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	58.90447	28.18570	182.73143
2	RSL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	7.01700	10.26730	0.00000
2	RAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	5573.40679	2.33900	5.13365	0.00000
2	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	2259.36272	133.32302	92.40569	963.62466
2	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	44.44101	46.20285	481.81233
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1										
2	BAVUL(KBA)	125.56888	72.75087	46.19434	0.00000	0.00000	970.99199	182.73143	790.99199	0.00000
2	ARGA,ARGRAS,BSHEL,RSHEL1	200.00000	200.00000	790.99199	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	BAVULT,ABGRAN,HSHELL1	1527.24556	30.14334	19.14007	0.00000	0.00000	0.00000	75.71230	0.00000	0.00000
2	RPOPS(KBA)	472.65717	28.65735	17.81549	0.00000	0.00000	0.00000	70.47284	0.00000	0.00000
2	BPOPS(KBA)	7.79743	30.14334	19.14007	0.00000	0.00000	0.00000	75.71230	0.00000	0.00000
2	BPOPS(KBA)	47.65717	30.14334	17.81549	0.00000	0.00000	0.00000	70.47284	0.00000	0.00000
2	BPOPS(KBA)	632.79349	589.00285	1421.79645	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	RTOTS,RTOTNS,RTOT	0.00000	92.40569	92.40569	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	PRABA(TY),RATP	0.01000	0.00000	0.02000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	VDDBS,VAKBS,VBRBNS,VKRKNS	0.0158	0.00403	0.00457	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	TERMS1,TERMS2,TERMIN1,TERMIN2	0.00158	0.00403	0.00457	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	BAKS,RSHELK(ID),BAKNS	3.35489	3.99219	12.32865	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1										
2	RAVUL(KBA)	2249.36272	75.01761	92.52399	0.00000	0.00000	1970.86605	481.81233	1790.86605	0.00000
2	ARGA,ARGRAS,BSHEL,RSHEL1	200.00000	200.00000	1790.86605	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	BAVULT,ABGRAN,HSHELL1	2786.19266	0.00000	0.00000	0.00000	0.00000	0.00000	216.78434	0.00000	0.00000
2	RPOPS(KBA)	1003.06883	33.75307	18.75926	0.00000	0.00000	0.00000	120.48429	0.00000	0.00000
2	BPOPS(KBA)	557.48517	33.75307	64.76679	0.00000	0.00000	0.00000	216.78434	0.00000	0.00000
2	BPOPS(KBA)	123.68813	33.75307	64.76679	0.00000	0.00000	0.00000	120.48429	0.00000	0.00000
2	BPOPS(KBA)	537.89517	33.75307	64.76679	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	RTOTS,RTOTNS,RTOT	1453.40623	761.49542	2215.10165	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	PRABA(TY),RATP	0.00000	84.55710	84.55710	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	VDDBS,VAKBS,VBRBNS,VKRKNS	0.01000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	TERMS1,TERMS2,TERMIN1,TERMIN2	0.0254	0.00497	0.00844	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	BAKS,RSHELK(ID),BAKNS	7.22165	4.094540	26.85591	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
TOTAL AIRCRAFT DESTRUCTION FOR DAY 2										
2	RTOTS,RTOTNS,RTOT	832.79359	589.00285	1421.79645	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	X5,XNS	0.0403	0.02023	0.02023	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	BAD(KBA,IO),KBA=1,4	27.71456	80.76992	53.62963	0.00000	0.00000	0.00000	6.29929	6.29929	0.00000
2	RTOTS,RTOTNS,RTOT	1453.40623	761.49542	2215.10165	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	X5,XNS	0.0497	0.03527	0.03527	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
2	BAD(KBA,IO),KBA=1,4	30.76382	88.63045	115.30819	0.00000	0.00000	0.00000	7.54648	7.54648	0.00000
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 3										
3	RS(TY,MS)	0.00000	0.00000	3032.06040	0.00000	0.00000	144.08431	137.23312	271.42699	0.00000
3	BA(TY,MS)	0.00000	0.00000	1212.82414	0.00000	0.00000	72.04216	45.74437	180.95133	0.00000
3	BANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
3	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
3	RS(TY,MS)	0.00000	0.00000	5509.31187	0.00000	0.00000	222.56499	180.47968	952.97233	0.00000
3	RA(TY,MS)	0.00000	0.00000	2203.72475	0.00000	0.00000	74.18833	90.23984	476.48617	0.00000

NAME	0-100000	0-00000	0-00000	0-00000	0-00000	0-00000
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION						
3 RAMP(TY,MS)	0	0	0	0	0	0
3 IAI(A,IBARI)	403,04467	403,04467	403,04467	403,04467	403,04467	403,04467
3 HATS,HATSI	3303,48739	3303,48739	3303,48739	3303,48739	3303,48739	3303,48739
3 RITS,HITSI	0	0	0	0	0	0
3 VRI(DA,ITY)	0	0	0	0	0	0
3 V(AURI,KAT)	0	0	0	0	0	0
3 RSPNG(ITY,MS)	0	0	0	0	0	0
3 DENOM	3,70763	3,70763	3,70763	3,70763	3,70763	3,70763
3 HPMNG(ITY)	0	0	0	0	0	0
3 BKAAL(ITY,MS)	0	0	0	0	0	0
3 BAKAA(ITY,MS)	0	0	0	0	0	0
3 RSP(ITY,MS)	0	0	0	0	0	0
3 RAB(ITY,MS)	0	0	0	0	0	0
3 MS(ITY,MS)	0	0	0	0	0	0
3 BAIT(Y,MS)	0	0	0	0	0	0
ATTRITION TO RED IN AIR-TO-AIR INTERACTION						
3 HATS,BATSI	281,31743	281,31743	281,31743	281,31743	281,31743	281,31743
3 RITS,HITSI	6462,28421	6462,28421	6462,28421	6462,28421	6462,28421	6462,28421
3 VRI(DA,ITY)	0	0	0	0	0	0
3 V(AURI,KAT)	0	0	0	0	0	0
3 RSPNG(ITY,MS)	0	0	0	0	0	0
3 DENOM	3,70763	3,70763	3,70763	3,70763	3,70763	3,70763
3 RPFNG(ITY)	0	0	0	0	0	0
3 RSKAA(ITY,MS)	0	0	0	0	0	0
3 RAKAA(ITY,MS)	0	0	0	0	0	0
3 RSP(ITY,MS)	0	0	0	0	0	0
3 RAB(ITY,MS)	0	0	0	0	0	0
3 RSI(ITY,MS)	0	0	0	0	0	0
3 RAIT(Y,MS)	0	0	0	0	0	0
BLUE LOSSES TO ENEMY SAHS						
3 RSL(ITY,MS)	0	0	0	0	0	0
3 RAL(ITY,MS)	0	0	0	0	0	0
3 RSI(ITY,MS)	0	0	0	0	0	0
3 RA(ITY,MS)	0	0	0	0	0	0
RED LOSSES TO ENEMY SAHS						
3 RSL(ITY,MS)	0	0	0	0	0	0
3 RAL(ITY,MS)	0	0	0	0	0	0
3 RSI(ITY,MS)	0	0	0	0	0	0
3 RA(ITY,MS)	0	0	0	0	0	0
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE						
3 BAVUL(KBA)	1205,79709	1205,79709	1205,79709	1205,79709	1205,79709	1205,79709
3 ABGA,ABGRAS,BSHEL,BSHELL	200,00000	200,00000	200,00000	200,00000	200,00000	200,00000
3 BAVUL,ABUPAN,BSHELL	1436,84102	1436,84102	1436,84102	1436,84102	1436,84102	1436,84102
3 BPOPS(KBA)	528,36024	528,36024	528,36024	528,36024	528,36024	528,36024
3 BPOPS(KBA)	436,27743	436,27743	436,27743	436,27743	436,27743	436,27743
3 BPOPS(KBA)	728,36024	728,36024	728,36024	728,36024	728,36024	728,36024
3 BPOPS(KBA)	450,25043	450,25043	450,25043	450,25043	450,25043	450,25043
3 RTOTS,RTOTNS,RTOT	82,59684	82,59684	82,59684	82,59684	82,59684	82,59684
3 PRAB(ITY,BAFP)	0	0	0	0	0	0
3 VRDPSYVRBNSYVRBNS	0	0	0	0	0	0
3 TERMS,TERMS2,TERMIN,TERMN2	0	0	0	0	0	0
3 BANS,BSHEL,IBI,BANS	0	0	0	0	0	0
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE						
3 BAVUL(KBA)	2201,31982	2201,31982	2201,31982	2201,31982	2201,31982	2201,31982
3 ABGA,ABGRAS,BSHEL,BSHELL	200,00000	200,00000	200,00000	200,00000	200,00000	200,00000
3 BAVUL,ABUPAN,BSHELL	1017,34751	1017,34751	1017,34751	1017,34751	1017,34751	1017,34751
3 BPOPS(KBA)	523,37637	523,37637	523,37637	523,37637	523,37637	523,37637
3 BPOPS(KBA)	127,14751	127,14751	127,14751	127,14751	127,14751	127,14751
3 BPOPS(KBA)	523,57637	523,57637	523,57637	523,57637	523,57637	523,57637
3 RTOTS,RTOTNS,RTOT	140,14445	140,14445	140,14445	140,14445	140,14445	140,14445
3 PRAB(ITY,BAFP)	0	0	0	0	0	0
3 VRDPSYVRBNSYVRBNS	0	0	0	0	0	0
3 TERMS,TERMS2,TERMIN,TERMN2	0	0	0	0	0	0
3 BANS,BSHEL,IBI,BANS	0	0	0	0	0	0

ITEM	DESCRIPTION	QTY	UNIT	VAL	VAL	VAL	VAL	VAL	VAL
3	FORM 341 (REPLACES FORM 341) TERMINAL TERMING								
3	RAKS,RSHELK(ID),RAKNS	3,40001		2,32810	10,60414				
TOTAL AIRCRAFT DESTRUCTION FOR DAY 3									
3	BTOIS,BTOTNS,BTOT	829,59984		519,87297	1399,47281				
3	XS,ANS	.00145		.00730					
3	RAD(KRA,IDA),KBA=1+4	11,27127		39,93021	25,82998			2,68328	
3	RTOTS,RTOTNS,RTOT	1450,14445		666,96362	2117,10808				
3	XS,ANS	.00234		.01590					
3	RAD(KRA,IDA),KRA=1+4	13,58353		46,04988	56,93092			3,35308	
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 4									
4	BS(TY,MS)	0,00000		0,00000	3003,88223			64,20789	267,40207
4	BA(TY,MS)	0,00000		0,00000	1201,55289			32,10395	178,26804
4	BANAS	0,00000		0,00000	0,00000			0,00000	0,00000
4	BANFTY,MS)	0,00000		0,00000	3285,21187			47,83536	178,50647
4	RS(TY,MS)	0,00000		0,00000	2190,14122			28,13845	473,13309
4	RANAS	0,00000		0,00000	0,00000			0,00000	0,00000
4	RANFTY,MS)	0,00000		0,00000	0,00000			0,00000	94,62662
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION									
4	IDIRA,IBARI	0		0					
4	RATS,RAFSI	81,14428		81,14428					
4	BITS,BITSI	3271,28429		0,00000					
4	VRIDRA(TY)	.00050		.00100					
4	VRADRI(KAT)	0,00000		0,00000	0,00000			0,00000	
4	RSFENG(TY,MS)	2,02111		0,00000				55,07128	51,24188
4	DFENOM	.44887		.15113					
4	BPENG(TY)	0,00000		0,00000	3,60023			22,25180	.6498
4	BSKAA(TY,MS)	0,00000		0,00000	1,44060			11,12590	.42732
4	BKAA(TY,MS)	0,00000		0,00000	0,00000			16,90150	0,00000
4	BSEB(TY,MS)	0,00000		0,00000	6,56350			12,21494	0,00000
4	BS(TY,MS)	0,00000		0,00000	0,00000			3,28195	0,00000
4	BA(TY,MS)	0,00000		0,00000	3000,28199			35,39219	266,76109
4	BATS,BATSI	123,95106		123,95106	1200,11280			17,59610	177,84073
4	RITS,RITSI	3663,71830		0,00000					
4	VRIDRA(TY)	.00100		.00200					
4	VRADRI(KAT)	0,00000		0,00000	0,00000			0,00000	
4	RSFENG(TY,MS)	2,02111		0,00000				46,21090	32,17777
4	DFENOM	.44887		.18728					
4	BPENG(TY)	0,00000		0,00000	2,56097			32,12250	.59013
4	BSKAA(TY,MS)	0,00000		0,00000	1,70732			18,89559	.59013
4	BKAA(TY,MS)	0,00000		0,00000	0,00000			7,04320	0,00000
4	BSEB(TY,MS)	0,00000		0,00000	0,00000			5,88606	0,00000
4	BS(TY,MS)	0,00000		0,00000	0,00000			4,14355	0,00000
4	BA(TY,MS)	0,00000		0,00000	3282,65086			8,66866	377,91634
4	BATS,BATSI	123,95106		123,95106	2188,43390			5,09921	377,91634
4	RITS,RITSI	3663,71830		0,00000				1,76961	0,00000
4	VRIDRA(TY)	.00100		0,00000	0,00000			.88480	0,00000
4	VRADRI(KAT)	0,00000		0,00000	0,00000			33,62358	0,00000
4	RSFENG(TY,MS)	2,02111		0,00000	1200,11280			16,81129	177,84073
4	DFENOM	.44887		.00000					
4	BPENG(TY)	0,00000		0,00000	0,00000			.43343	0,00000
4	BSKAA(TY,MS)	0,00000		0,00000	0,00000			.50552	0,00000
4	BKAA(TY,MS)	0,00000		0,00000	0,00000			.50552	0,00000
4	BSEB(TY,MS)	0,00000		0,00000	0,00000			8,23523	377,91634
4	BS(TY,MS)	0,00000		0,00000	2188,43390			4,84425	377,91634
4	BA(TY,MS)	0,00000		0,00000	0,00000				
MED LOSSES TO ENEMY SAMS									
4	RSL(TY,MS)	0,00000		0,00000	0,00000				
4	RAL(TY,MS)	0,00000		0,00000	0,00000				
4	RS(TY,MS)	0,00000		0,00000	0,00000				
4	RA(TY,MS)	0,00000		0,00000	0,00000				

W. Ue ATTRACTION OF LOSSES CAUSED BY RED ATTACK

Code	Description	Value 1	Value 2	Value 3	Value 4	Value 5	Value 6	Value 7	Value 8	Value 9	Value 10
4	BAVUL(KBA)	1200.11280	20.09324	12.11876	177.84073						
4	ARQA,ARQAS,RSHEL,RSHEL1	200.00000	200.00000	985.56534	785.56534						
4	BAVUL,ABQRAN,RSHEL1	1510.16552	0.00000	785.56534							
4	RPOPS(KBA)	534.84062	8.95473	5.40083	79.25829						
4	RPOPS(KBA)	425.24962	7.11987	4.29418	63.01833						
4	RPOPS(KBA)	734.84062	8.95473	5.40083	79.25829						
4	RPOPS(KBA)	425.24962	7.11987	4.29418	63.01833						
4	RTOTS,RTOTNS,RTOT	828.45243	499.67999	1328.13242							
4	PRHA(TY),RATP	0.00000	4.54967	4.54967							
4	VRDRS,VRDRNS,VRDRNS,VRKBN	0.00000	20000	0.00000	30000						
4	TERMS1,TERMS2,TERMNI,TERMNI2	0.00159	0.00022	0.00476	0.00108						
4	BAKS,BSHELK(ID),RAKNS	180.41	0.21483	0.54196							
4	RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE										
4	RAVUL(KRA)	2188.43390	8.98790	10.43573	472.54896						
4	ARQA,ARQAS,RSHEL,RSHEL1	200.00000	200.00000	1983.59255	1783.59255						
4	BAVUL,ABQRAN,RSHEL1	2669.96476	0.00000	1783.59255							
4	RPOPS(KRA)	1315.72784	5.40369	0.00000	284.10176						
4	RPOPS(KRA)	653.86267	2.68541	9.39215	141.18690						
4	RPOPS(KRA)	1515.72784	5.40369	0.00000	284.10176						
4	RPOPS(KRA)	653.86267	2.68541	9.39215	141.18690						
4	RTOTS,RTOTNS,RTOT	1805.23329	807.12714	2612.36044							
4	PRHA(TY),RATP	0.00000	24.14134	24.14134							
4	VRDRS,VRDRNS,VRDRNS,VRKBN	0.00000	40000	0.00000	60000						
4	TERMS1,TERMS2,TERMNI,TERMNI2	0.00254	0.00136	0.00829	0.01000						
4	BAKS,BSHELK(ID),RAKNS	2445332	1.34786	8.06829							
TOTAL AIRCRAFT DESTRUCTION FOR DAY 4											
4	RTOTS,RTOTNS,RTOT	828.45243	499.67999	1328.13242							
4	XS,XNS	0.00022	0.00108								
4	BAD(KBA,IDA),KBA=1,4	2.06135	12.02038	7.80146	51293						
4	RTOTS,RTOTNS,RTOT	1805.23329	807.12714	2612.36044							
4	XS,XNS	0.00136	0.01000								
4	RAD(KRA,IDA),KRA=1,4	10.30341	19.18474	22.96704	2.38757						
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 5											
5	BS(TY,MS)	0.00000	0.00000	1274.49154	14.05850	12.11293	106.65307				
5	BA(TY,MS)	0.00000	0.00000	1274.49154	20.08357	12.11293	177.75512				
5	BANAS	0.00000	0.00000	0.00000	6.02507	0.00000	71.10205				
5	BANFTY,MS)	0.00000	0.00000	0.00000	15.22131	10.34184	376.59641				
5	RS(TY,MS)	0.00000	0.00000	3269.75672	8.95371	10.34184	470.74552				
5	RA(TY,MS)	0.00000	0.00000	2179.43781	0.00000	0.00000	94.14910				
5	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000				
5	BANFTY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000				
5	IRARA,IBARI	0	0	0	0	0	0				
5	RATS,RATSI	25.56315	25.56315	0.00000	12.15038	10.46888					
5	BITS,BITSI	1381.14461	0.00000	0.00000	4.97282	4.28462	.15244				
5	VPTDRA(TYI)	0.00050	0.00100	0.00000	1.43551	2.47370	0.00000				
5	VRABU(I,KAT)	0.00000	0.00000	0.00000	1.43551	2.47370	0.00000				
5	HSENG(TY,MS)	0.00000	0.00000	0.00000	7.65017	5.35460	106.50063				
5	DENOM	2.01147	0.00000	0.00000	7.65017	5.35460	106.50063				
5	RPENG(TY)	0.45663	0.00000	0.00000	4.97282	4.28462	.15244				
5	RSKAA(TY,MS)	0.00000	0.00000	0.00000	1.43551	2.47370	0.00000				
5	BAKAA(TY,MS)	0.00000	0.00000	0.00000	1.43551	2.47370	0.00000				
5	HSHFTY,MS)	0.00000	0.00000	0.00000	7.65017	5.35460	106.50063				
5	HAFB(TY,MS)	0.00000	0.00000	0.00000	7.65017	5.35460	106.50063				
5	RS(TY,MS)	0.00000	0.00000	1273.58072	7.65017	5.35460	106.50063				
5	BA(TY,MS)	0.00000	0.00000	1273.58072	7.65017	5.35460	106.50063				
ATTRITION TO RED IN AIR-TO-AIR INTERACTION											

BLUE LOSSES TO ENEMY SAMS											
RITS,RITS	3646.35313										
VIDRATTII	706200										
VRADRI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000						
RSENG(TY,MS)	2.01147										
RPENG(TY)	.81278										
RKAA(TY,MS)	0.00000	.53787	5.82020	3.95443							.12390
RKA(TY,MS)	0.00000	.38958	3.42365	3.95443							.12390
RFB(TY,MS)	0.00000	0.00000	2.94705	2.40278							0.00000
RAB(TY,MS)	0.00000	0.00000	1.73356	2.40278							0.00000
RS(TY,MS)	0.00000	3269.21884	6.45405	3.98462							376.47252
RA(TY,MS)	0.00000	2179.47924	3.79650	3.98462							376.47252
RSL(TY,MS)	0.00000	0.00000	.38251	.53546							0.00000
BAL(TY,MS)	0.00000	0.00000	.38251	.53546							0.00000
HS(TY,MS)	0.00000	1273.58072	7.26766	4.81914							106.50063
RA(TY,MS)	0.00000	1273.58072	7.26766	4.81914							106.50063
RED LOSSES TO ENEMY SAMS											
RSL(TY,MS)	0.00000	0.00000	0.00000	.32270							0.00000
RAL(TY,MS)	0.00000	0.00000	0.00000	.18983							0.00000
RS(TY,MS)	0.00000	3269.21884	6.13135	3.58616							376.47252
RA(TY,MS)	0.00000	2179.47924	3.60668	3.58616							376.47252
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE											
HAVUL(KBA)	14.72824										
ARQA,ARQA,RSHELL,RSHELL	200.00000										
HAVUL,ABGRAN,RSHELL	1473.20448										
RPOPS(KRA)	611.04009										
RPOPS(KBA)	535.18256										
RPOPS(KRA)	811.04009										
RPOPS(KBA)	535.18256										
RTOTS,RTOTNS,RTOT	96.81582										
PRABA(TY),RAP	0.00000										
VRDPS,VRKRS,VRDBNS,VRKBNNS	.01000										
TERMS1,TERMS2,TERMN1,TERMN2	.00159										
HAKS,RSHELLK(ID),RAKNS	.13798										
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE											
HAVUL(KRA)	2179.47924										
ARQA,ARQA,RSHELL,RSHELL	200.00000										
HAVUL,ABGRAN,RSHELL	2655.44109										
RPOPS(KRA)	1316.51528										
RPOPS(KBA)	645.01603										
RPOPS(KRA)	1516.51528										
RPOPS(KBA)	645.01603										
RTOTS,RTOTNS,RTOT	1804.02022										
PRABA(TY),RAP	0.00000										
VRDPS,VRKRS,VRDBNS,VRKBNNS	.01000										
TERMS1,TERMS2,TERMN1,TERMN2	.00255										
HAKS,RSHELLK(ID),RAKNS	.49773										
TOTAL AIRCRAFT DESTRUCTION FOR DAY											
RTOTS,RTOTNS,RTOT	906.81582	619.06421	1525.88403								
XS,ANS	.00015	.00081									
RAU(KBA,ID),KBA1+4	146743	536141	482310								
RTOTS,RTOT,SR,TOT	1804.02022	2595.28709									
XS,ANS	.00028	.00502									
RAU(KRA,ID),KRA=1+4	2.07831	3.61755	4.36377								
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY											
RS(TY,MS)	0.00000	0.00000	1273.02410	10.30551							
TOTAL											
RS(TY,MS)	0.00000	0.00000	1273.02410	10.30551	7.28983	106.51758					

6	IRAKI(YS)	0.00000	0.00000	1213.02410	14.12216	7.20953	177.452930
6	BANAS	0.00000	0.00000	0.00000	4.41665	0.00000	71.01172
6	HANF(TY,MS)	0.00000	0.00000	0.00000	9.07147	5.97807	376.20975
6	RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY	6	0.00000	3266.63925	5.33616	5.97807	470.26219
6	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	94.05244
6	HA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	IRAKI(YS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION	0	0.00000	0.00000	8.90004	6.30351	0.00000
6	IRAKI,IRARI	0	0.00000	0.00000	0.1117	0.00000	0.00000
6	HATS,RATSI	15.04954	0.00000	0.00000	3.65028	2.58211	0.08980
6	BITS,BITSI	1379.54168	0.00000	0.00000	3.65028	2.58211	0.08980
6	VRDRA(TYI)	0.00050	0.00000	0.00000	1.48856	1.48856	0.00000
6	VRDRA(TYI)	0.00000	0.00000	0.00000	1.05218	1.48856	0.00000
6	VRDRI(KAT)	0.00000	0.00000	0.00000	1.05218	1.48856	0.00000
6	HSENG(TY,MS)	0.00000	0.00000	0.00000	5.60305	3.21916	106.42778
6	DENOM	2.00953	0.00000	1272.48747	5.60305	3.21916	106.42778
6	HPENG(TY)	0.85664	0.00000	1272.48747	5.60305	3.21916	106.42778
6	RSKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RSFBI(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	HAFBI(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	ATTRITION TO RED IN AIR-TO-AIR INTERACTION	17.59534	17.59534	0.00000	0.00000	4.61045	0.00000
6	HATS,BATSI	3642.84900	0.00000	0.00000	0.00000	0.00000	0.00000
6	HITS,RITSI	0.01100	0.00000	0.00000	0.00000	0.00000	0.00000
6	VRDRA(TYI)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	VRDRI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RSENG(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	UENOM	2.00953	0.00000	0.00000	0.00000	0.00000	0.00000
6	HPENG(TY)	0.81279	0.00000	0.00000	0.00000	0.00000	0.00000
6	RSKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RSFBI(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	HAFBI(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BLUE LOSSES TO ENEMY SAMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RED LOSSES TO ENEMY SAMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1	10.79172	10.79172	0.00000	0.00000	0.00000	0.00000
6	BAVUL(KBA)	1272.48747	1272.48747	0.00000	0.00000	0.00000	0.00000
6	ARQA,ARQAS,BSHEL,BSHSLI	200.00000	200.00000	0.00000	0.00000	0.00000	0.00000
6	BAVUL,ABORAN,RSHELLI	1465.10450	0.00000	0.00000	0.00000	0.00000	0.00000
6	BPOPS(KBA)	613.77368	5.20530	2.11546	85.58646	85.58646	0.00000
6	BPOPS(KBA)	531.46505	4.50725	1.83177	74.10909	74.10909	0.00000
6	BPOPS(KBA)	813.77368	5.20530	2.11546	85.58646	85.58646	0.00000
6	BPOPS(KBA)	531.46505	4.50725	1.83177	74.10909	74.10909	0.00000
6	BTOTS,BTOTNS,BTOT	906.68089	61.91316	1518.59405	0.00000	0.00000	0.00000
6	PRABATI,PRAP	0.00000	2.06439	2.06439	0.00000	0.00000	0.00000
6	VRDST,VRDST,VRDST,VRDST,VRDST	0.01000	0.00000	0.00000	0.00000	0.00000	0.00000
6	TERMSI,TERMSI,TERMSI,TERMSI,TERMSI	0.01559	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAKS,BSHELLI(TD),BARKS	0.08692	0.00000	0.00000	0.00000	0.00000	0.00000
6	RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
6	BAVUL(KBA)	2177.52631	3.17479	3.17479	470.18162	470.18162	0.00000
6	ARQA,ARQAS,RSHEL,RSHSLI	200.00000	0.00000	0.00000	178.97125	178.97125	0.00000
6	BAVUL,ABORAN,RSHELLI	2650.86271	0.00000	0.00000	0.00000	0.00000	0.00000
6	BPOPS(KBA)	1317.35266	1.92074	1.92074	286.45812	286.45812	0.00000
6	BPOPS(KBA)	531.46505	0.00000	0.00000	0.00000	0.00000	0.00000

RED LOSSES TO ENEMY SORTS

7	RSL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
7	RAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
7	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
7	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1

7	RAVUL(KRA)	1271.85183	7.90633	2.63670	177.34453	.13204	0.00000
7	ARQA,ARJRS,RSHEL,RSHEL1	200.00000	0.00000	985.11406	785.11406	.13204	0.00000
7	RAVUL,ARJRS,RSHEL,RSHEL1	1459.73838	0.00000	785.11406	785.11406	1.18837	375.91944
7	RPOPS(KRA)	615.65365	3.82715	1.27632	85.84554	1.18837	375.91944
7	RPOPS(KRA)	520.01300	3.28855	1.09671	73.76454		
7	RPOPS(KRA)	815.65365	3.82715	1.27632	85.84554		
7	RPOPS(KRA)	520.01300	3.28855	1.09671	73.76454		
7	RTOTS,RTOTNS,RTOT	906.60265	607.16279	1513.76544	.30000		
7	PHABA(TY),RATP	0.01000	1.18837	1.18837	.00027		
7	VROBS,VKRS,VROBNS,VKRBNS	0.00000	0.00000	.00453			
7	TERMS1,TERMS2,TERMN1,TERMN2	.00159	.00005	.00453			
7	RAKS,RSHELK(ID),RAKNS	.04627	.05028	.16374			

RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1

7	RAVUL(KRA)	2176.33844	1.88523	1.99014	469.91251	.07705	
7	ARQA,ARJRS,RSHEL,RSHEL1	200.00000	0.00000	1981.60583	1781.60583		
7	RAVUL,ARJRS,RSHEL,RSHEL1	2643.13618	0.00000	1781.60583	284.56375		
7	RPOPS(KRA)	1317.91986	1.14163	0.00000	138.35741		
7	RPOPS(KRA)	640.78474	.55507	1.79113	284.56375		
7	RPOPS(KRA)	1517.91986	1.14163	0.00000	138.35741		
7	RPOPS(KRA)	840.78474	.55507	1.79113	284.56375		
7	RTOTS,RTOTNS,RTOT	1803.62525	781.48845	2585.11360	.60000		
7	PHABA(TY),RATP	0.00000	1.74141	1.74141	-.00073		
7	VROBS,VKRS,VROBNS,VKRBNS	0.01000	.40000	.02000			
7	TERMS1,TERMS2,TERMN1,TERMN2	.00255	.00010	.00834	-.00073		
7	RAKS,RSHELK(ID),RAKNS	.18163	.09979	.57254			

TOTAL AIRCRAFT DESTRUCTION FOR DAY 7

7	RTOTS,RTOTNS,RTOT	906.60265	607.16279	1513.76544			
7	XS,XNS	.00005	.00027				
7	BAP(KBA, ID),KRA=1,4	.49969	2.88390	1.74843			
7	RTOTS,RTOTNS,RTOT	1803.62525	781.48845	2585.11360			
7	XS,XNS	.00010	.00073				
7	RAO(KRA, ID),KRA=1,4	.77534	1.28862	1.46098			

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY

8	RS(TY,MS)	0.00000	0.00000	1271.66749	5.53368	2.63634	106.39215
8	RA(TY,MS)	0.00000	0.00000	1271.66749	7.90525	2.63634	177.32025
8	BANAS	0.00000	0.00000				
8	BANFITY(MS)	0.00000	0.00000				

RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY

8	RS(TY,MS)	0.00000	0.00000	3283.57415	3.20401	1.98883	375.82599
8	RA(TY,MS)	0.00000	0.00000	2175.71610	1.88471	1.98883	469.78249
8	BANAS	0.00000	0.00000				
8	BANFITY(MS)	0.00000	0.00000				

ATTRITION TO BLUE-IN-AIR-TO-AIR INTERACTION

8	BITA,IBARI	0	0	0.00000	0.00000	0.00000	93.95650
8	RATS,RATSI	5.19284	5.19284				
8	BITS,BITSI	1378.05964	0.00000				
8	VTORAT(TI)	.00050	.00100				
8	VSABSI(KAT)	0.00000	0.00000				
8	BSENGITTY(MS)	0.00000	0.00000				
8	DEJOM	2.00761	.14334				
8	BPEWNGITTY	.85666	.00000				
8	BKAATY(MS)	0.00000	0.00000				
8	BKAATY(MS)	0.00000	0.00000				

8	DEJOM	2.00761	4.78772	2.28095			
8	BKAATY(MS)	.85666					
8	BKAATY(MS)	0.00000					
8	BKAATY(MS)	0.00000					

8	BKAATY(MS)	0.00000	1.8505	.18505	1.96319	.93530	.03096
8	BKAATY(MS)	0.00000	0.00000				
8	BKAATY(MS)	0.00000	0.00000				

HLUF SORTIES AND AIRCRAFT AT BEGINNING OF DAY	9	0.00000	1271.48244	4.05425	1.58476	106.37357
BS(TY,MS)	9	0.00000	1271.48244	5.79178	1.58476	177.28928
BA(TY,MS)	9	0.00000	0.00000	0.00000	0.00000	70.91571
BANA	9	0.00000	0.00000	1.73753	0.00000	375.73546
BAF(TY,MS)	9	0.00000	3262.86101	1.90148	1.14590	469.66933
RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY	9	0.00000	2175.24067	1.11652	1.14590	93.93387
RS(TY,MS)	9	0.00000	0.00000	0.00000	0.00000	
RA(TY,MS)	9	0.00000	0.00000	0.00000	0.00000	
RANA	9	0.00000	0.00000	0.00000	0.00000	
RANF(TY,MS)	9	0.00000	0.00000	0.00000	0.00000	
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION	0	0				
IRISA,IBARI	0	0				
BATS,RATS	3.04739	3.04739				
HITS,BITS	1.37745601	0.00000				
VUIDBA(TY)	.00050	0.00000				
VRAUBI(KAT)	0.00000	0.00000				
BSENG(TY,MS)	2.00000	0.00000				
DENOM	2.00000	0.00000				
BPENG(TY)	.45466	.14334				
BKAA(TY,MS)	0.00000	0.00000	.10850	1.43898	.56248	.01816
BKAA(TY,MS)	0.00000	0.00000	.10850	1.43898	.56248	.01816
BSEF(TY,MS)	0.00000	0.00000	0.00000	.41346	.32355	0.00000
BAFB(TY,MS)	0.00000	0.00000	0.00000	.41346	.32355	0.00000
BS(TY,MS)	0.00000	0.00000	1271.37394	2.20140	.69873	106.35541
BA(TY,MS)	0.00000	0.00000	1271.37394	2.20140	.69873	106.35541
ATTRITION TO RED IN AIR-TO-AIR INTERACTION	5.63901	5.63901				
BATS,RATS	3638.59647	0.00000				
VUIDRA(TY)	.00100	.00200				
VRAUBI(KAT)	0.00000	0.00000				
BSENG(TY,MS)	2.00000	0.00000				
DENOM	2.00000	0.00000				
BPENG(TY)	.41280	.18120				
BKAA(TY,MS)	0.00000	0.00000	.10162	73346	.44201	.02340
BKAA(TY,MS)	0.00000	0.00000	.06774	.43145	.44201	.02340
BSEF(TY,MS)	0.00000	0.00000	0.00000	.36831	.26635	0.00000
BAFB(TY,MS)	0.00000	0.00000	0.00000	.21665	.26635	0.00000
BS(TY,MS)	0.00000	0.00000	3262.75939	.79972	.43755	375.71206
BA(TY,MS)	0.00000	0.00000	2175.17293	.47042	.43755	375.71206
BLUE LOSSES TO ENEMY SAMs	0.00000	0.00000	0.00000	.11007	.06987	0.00000
BSL(TY,MS)	0.00000	0.00000	0.00000	.11007	.06987	0.00000
BAL(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
BS(TY,MS)	0.00000	0.00000	1271.37394	2.09133	.62886	106.35541
BA(TY,MS)	0.00000	0.00000	1271.37394	2.09133	.62886	106.35541
RED LOSSES TO ENEMY SAMs	0.00000	0.00000	0.00000	.03999	.04375	0.00000
BSL(TY,MS)	0.00000	0.00000	0.00000	.02352	.04375	0.00000
BAL(TY,MS)	0.00000	0.00000	3262.75939	.75973	.39379	375.71206
BS(TY,MS)	0.00000	0.00000	2175.17293	.44690	.39379	375.71206
BA(TY,MS)	0.00000	0.00000				
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE	1					
BAYULT(KBA)	1271.37394	4.24273	.95241	177.27113		
ABQHA,ABORAS,BSHEL,RSHEL	200.00000	200.00000	985.06374	785.06378		
BAYULT,ABORAS,BSMELT	1453.84820	0.00000	785.06374			
BPOPS(KBA)	617.87992	2.06194	.46286	86.15268		
BPOPS(KBA)	526.35662	1.75052	.39379	73.39134		
BPOPS(KBA)	817.87992	2.06194	.46286	86.15268		
BPOPS(KBA)	526.35662	1.75052	.39379	73.39134		
BPOPS(KBA)	906.55741	601.89877	1506.45614			
PRABATTI,IRAP	0.00000	.39379	.39379			
IBAX	40					
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE	1					
BAYULT(KBA)	0.00000	0.00000	0.00000	44.356		
ABQHA,ABORAS,BSMELT,RSHEL	0.00000	0.00000	0.00000	44.356		
BAYULT,ABORAS,BSMELT	0.00000	0.00000	0.00000	44.356		
BPOPS(KBA)	0.00000	0.00000	0.00000	44.356		
BPOPS(KBA)	0.00000	0.00000	0.00000	44.356		
BPOPS(KBA)	0.00000	0.00000	0.00000	44.356		
BPOPS(KBA)	0.00000	0.00000	0.00000	44.356		
BPOPS(KBA)	0.00000	0.00000	0.00000	44.356		
PRABATTI,IRAP	0.00000	0.00000	0.00000	44.356		
IBAX	40					

9	ARGNA,ARORAS,RSHEL,RSHELI	200.00000	200.00000	1981.64594	1781.64594
9	RAVULY,ARKR,RYRSHELI	2645.48240	0.00000	1781.64594	
9	RPOPS(KRA)	1318.41709	.48219	0.00000	284.66206
9	RPOPS(KRA)	639.23854	.17500	.59412	138.01927
9	RPOPS(KRA)	1516.41709	.40219	0.00000	284.66206
9	RPOPS(KRA)	639.23854	.17500	.59412	138.01927
9	RTOTS,RTOTNS,RTOT	1803.48135	778.04694	2581.52824	
9	PRAMA(TY),BAPP	0.00000	.62886	.62886	
9	IR4EX	40	0.00000	0.00000	
9	RANKS,RSHELK(ID),RANKS	0.00000	0.00000	0.00000	

TOTAL AIRCRAFT DESTRUCTION FOR DAY 9

9	RTOTS,RTOTNS,RTOT	906.55741	601.89877	1508.45618	
9	XS,XNS	0.00000	0.00000		
9	BAD(KBA, ID),KBA=1,4	.10850	1.54705	.63236	.01816
9	RTOTS,RTOTNS,RTOT	1803.48135	778.04694	2581.52824	
9	XS,XNS	0.00000	0.00000		
9	RAD(KRA, ID),KRA=1,4	.06774	.45497	.48576	.02340

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 10

10	RS(TY,MS)	0.00000	0.00000	1271.37394	2.96991	.95241	106.36268
10	BA(TY,MS)	0.00000	0.00000	1271.37394	4.24273	.95241	177.27113
10	BANAS	0.00000	0.00000	0.00000	1.27282	0.00000	70.90845
10	BANF(TY,MS)	0.00000	0.00000	0.00000	1.12804	.66014	375.71674
10	RS(TY,MS)	0.00000	0.00000	2175.17293	.66355	.66014	469.64592
10	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	93.92918
10	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
10	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION

10	IRRA,IRARI	0	0				
10	RATS,RATSI	1.78818	1.78818				
10	HITS,HITSI	1377.73662	0.00000				
10	VRUBA,VTI	.00050	.00100				
10	VRUHI,VI	0.00000	0.00000				
10	RSENG(TY,MS)	0.00000	0.00000			.82428	
10	DEROM	2.00710	.14334				
10	RPENG(TY)	.85666	0.00000	.06361	1.05454	.33818	.01064
10	BKAA(TY,MS)	0.00000	0.00000	.06361	1.05454	.33818	.01064
10	RSFH(TY,MS)	0.00000	0.00000	0.00000	0.00000	.19444	0.00000
10	RAFH(TY,MS)	0.00000	0.00000	0.00000	0.00000	.19444	0.00000
10	RS(TY,MS)	0.00000	0.00000	1271.31033	1.61220	.41979	106.35203
10	RA(TY,MS)	0.00000	0.00000	1271.31033	1.61220	.41979	106.35203

ATTRITION TO RED IN AIR-TO-AIR INTERACTION

10	RATS,BATSI	3.62232	3.92232				
10	HITS,HITSI	3538.47613	0.00000				
10	VRUBA,VTI	.00100	.00200				
10	VRUHI,VI	0.00000	0.00000				
10	RSENG(TY,MS)	0.00000	0.00000			.51051	
10	DENOM	2.00710	.18719				
10	RPENG(TY)	.81281	0.00000	.06858	.43535	.25477	.01580
10	RSKAA(TY,MS)	0.00000	0.00000	.06858	.43535	.25477	.01580
10	RAKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000	.15344	0.00000
10	RSFH(TY,MS)	0.00000	0.00000	0.00000	0.00000	.15344	0.00000
10	RAFH(TY,MS)	0.00000	0.00000	0.00000	0.00000	.15344	0.00000
10	RS(TY,MS)	0.00000	0.00000	3262.69081	.47419	.25193	375.70094
10	RA(TY,MS)	0.00000	0.00000	2175.17271	.27894	.25193	375.70094
10	RSL(TY,MS)	0.00000	0.00000	0.00000	.08061	.04198	0.00000
10	RAL(TY,MS)	0.00000	0.00000	0.00000	.04198	.04198	0.00000

10	RA(TY,MS)	0.00000	0.00000	1271.31033	0.00000	177.26049	49176	0.00000
10	RAL(TY,MS)	0.00000	0.00000	1271.31033	0.00000	785.06378	.37781	106.35203
10	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	86.24180	.37781	106.35203
10	RSL(TY,MS)	0.00000	0.00000	0.00000	0.00000	73.29264	.02519	0.00000
10	RS(TY,MS)	0.00000	0.00000	3262.69081	0.00000	86.24180	.02519	0.00000
10	RA(TY,MS)	0.00000	0.00000	2175.12721	0.00000	73.29264	.22873	375.70094
10	RA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	.22873	375.70094

BLUE AIRBASE--BLU LOSSES CAUSED BY RED ATTACK MOHE 1

10	BAVUL(KRA)	1271.31033	3.10758	57225	0.00000	177.26049	49176	0.00000
10	ABQHA,ABGRAS,BSHEL,RSHEL	200.00000	200.00000	985.06378	0.00000	785.06378	.37781	106.35203
10	BAVUL,ABGRAN,RSHEL	1452.25065	0.00000	785.06378	0.00000	86.24180	.37781	106.35203
10	BPDS(KRA)	618.52387	1.51192	.27841	0.00000	73.29264	.02519	0.00000
10	BPPNS(KBA)	525.65402	1.28490	.23661	0.00000	86.24180	.02519	0.00000
10	BPPNS(KBA)	818.42527	1.51192	.27841	0.00000	73.29264	.02519	0.00000
10	BTOTS,RTOTNS,RTOT	525.65402	1.28490	.23661	0.00000	86.24180	.02519	0.00000
10	PRADA(TY),PATP	906.55741	600.46818	1507.02558	0.00000	137.97895	.37781	106.35203
10	IR4EX	0.00000	0.00000	.22873	0.00000	0.00000	.02519	0.00000
10	IR4EX	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000
10	IR4EX	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000

RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MOHE 1

10	RAVUL(KRA)	2175.12721	.39352	38018	0.00000	469.63013	98176	0.00000
10	ARGKA,ARURAS,RSHEL,RSHEL	200.00000	200.00000	1981.64594	0.00000	1781.64594	.37781	106.35203
10	RAVUL,ARGRAN,RSHEL	2645.15095	0.00000	1781.64594	0.00000	284.68817	.37781	106.35203
10	RPDS(KRA)	1318.45463	.23855	0.00000	0.00000	137.97895	.02519	0.00000
10	RPPNS(KBA)	639.95986	.11562	.34218	0.00000	284.68817	.02519	0.00000
10	RPPNS(KBA)	15.8.55463	.23855	0.00000	0.00000	284.68817	.02519	0.00000
10	RTOTS,RTOTNS,RTOT	1219.5986	777.49658	2580.97793	0.00000	137.97895	.02519	0.00000
10	PRADA(TY),PATP	1003.48135	.37781	0.00000	0.00000	0.00000	.02519	0.00000
10	IR4EX	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000
10	IR4EX	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000
10	IR4EX	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000

TOTAL AIRCRAFT DESTRUCTION FOR DAY 10

10	STOTS,RTOTNS,RTOT	906.55741	600.46818	1507.02558	0.00000	137.97895	.37781	106.35203
10	XS,XNS	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000
10	BADIKBA,IDI,KBA=1,4	.06361	1.13515	.38015	0.00000	0.01064	.02519	0.00000
10	RTOTS,RTOTNS,RTOT	1803.48135	777.49658	2580.97793	0.00000	137.97895	.02519	0.00000
10	XS,XNS	0.00000	0.00000	0.00000	0.00000	0.00000	.02519	0.00000
10	RAO(KRA,IDI,KRAMI=4	.04572	.27003	.27996	0.00000	.01580	.02519	0.00000

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 11

11	BA(TY,MS)	635.65517	953.48275	0.00000	0.00000	2.17530	.57225	106.35629
11	BA(TY,MS)	635.65517	635.65517	0.00000	0.00000	3.10758	.57225	177.26049
11	BANK(TY,MS)	0.00000	0.00000	0.00000	0.00000	.93227	0.00000	70.90419
11	BANK(TY,MS)	3697.71625	0.00000	0.00000	0.00000	.66898	.38018	375.70410
11	RS(TY,MS)	2175.12721	0.00000	0.00000	0.00000	.39352	.38018	469.63013
11	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	93.92603
11	RANFT(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION

11	IBRAT,IBPRI	0	0	0	0	0	0	0
11	RATS,RATSI	3698.76541	3698.76541	0.00000	0.00000	0.00000	0.00000	0.00000
11	BIT3BITSI	106.35629	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
11	VRIDBA(TYI)	.00050	.00100	0.00000	0.00000	0.00000	0.00000	0.00000
11	VRABBITKATT	108.97307	163.45960	0.00000	0.00000	0.00000	0.00000	0.00000
11	BSENG(TY,MS)	.37570	1.00000	0.00000	0.00000	.37292	.09810	0.00000
11	DENOH	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
11	BPENG(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

11	BAKAA(TY,MS)	34.86341	22.27311	0.00000	.11731	.05137	5.22286
11	BAKAA(TY,MS)	34.86341	34.86341	0.00000	.11931	.03139	5.22286
11	BAFB(TY,MS)	14.82193	44.46580	0.00000	.05072	.02669	0.00000
11	BAFB(TY,MS)	14.82193	29.64386	0.00000	.05072	.02669	0.00000
11	BS(TY,MS)	585.96983	856.72144	0.00000	2.00527	.51418	181.13344
11	BS(TY,MS)	585.96983	571.14789	0.00000	2.00527	.51418	181.13344
ATTENTION TO RED IN AIR-TO-AIR INTERACTION							
11	BATS,BATS1	1591.88547	1591.88547				
11	RITS,RITS1	375.70410	0.00000				
11	VIDRA(TY)	.00100	.00150				
11	VADRI(KRAT)	0.00000	0.00000	0.00000	0.00000	.01074	
11	RSENG(TY,MS)	104.42535	0.00000				
11	DENOM	.37570					
11	RPENG(TY)	0.00000	1.00000				
11	RSKAA(TY,MS)	52.58308	0.00000	0.00000	.00951	.00541	6.72923
11	RKAA(TY,MS)	30.93123	0.00000	0.00000	.00560	.00541	8.72923
11	RSEB(TY,MS)	28.92113	0.00000	0.00000	.00469	.00320	0.00000
11	RAF8(TY,MS)	15.24772	0.00000	0.00000	.00276	.00320	0.00000
11	RS(TY,MS)	3619.21204	0.00000	0.00000	.65478	.37157	366.97487
11	RA(TY,MS)	2128.94826	0.00000	0.00000	.38516	.37157	366.97487
BLUE LOSSES TO ENEMY SAMS							
11	BSL(TY,MS)	29.29849	85.67218	0.00000	.10026	.05142	0.00000
11	BS(TY,MS)	29.29849	57.11479	0.00000	.10026	.05142	0.00000
11	BS(TY,MS)	556.67133	771.04966	0.00000	1.90501	.46276	181.13344
11	BA(TY,MS)	556.67133	514.03310	0.00000	1.90501	.46276	181.13344
RED LOSSES TO ENEMY SAMS							
11	BSL(TY,MS)	180.96060	0.00000	0.00000	.03274	.03716	0.00000
11	BS(TY,MS)	106.44741	0.00000	0.00000	.01926	.03716	0.00000
11	RS(TY,MS)	3438.25144	0.00000	0.00000	.62204	.33442	366.97487
11	RA(TY,MS)	2022.50084	0.00000	0.00000	.36591	.33442	366.97487
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1							
11	RAVUL(KRA)	1115.17024	2.88801	.48945	172.03763		
11	ARGRA,ARGRAS,RSHEL,RSHEL1	200.00000	200.00000	985.06378	785.06378		
11	RAVUL,ARGRAN,RSHEL1	1290.58532	0.00000	785.06378			
11	BPOPS(KRA)	610.52282	1.58110	.26794	94.18553		
11	BPOPS(KRA)	393.13039	1.01811	.17254	60.64834		
11	BPOPS(KRA)	310.52282	1.58110	.26794	94.18553		
11	BPOPS(KRA)	393.13039	1.01811	.17254	60.64834		
11	BTOTS,BTOTNS,RTOT	906.65741	454.96738	1361.52679			
11	PRABA(TY,PRATP)	0.00000	.33442	.33442			
11	IR4EX	40					
11	BAK,RSHEL(KID),RAKNS	0.00000	0.00000	0.00000			
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1							
11	RAVUL(KRA)	2037.74857	.36866	.33761	460.90090		
11	ARGRA,ARGRAS,RSHEL,RSHEL1	200.00000	200.00000	1981.64594	1781.64594		
11	RAVUL,ARGRAN,RSHEL1	2499.01813	0.00000	1781.64594			
11	RPOPS(KRA)	1307.51025	.23055	0.00000	295.73455		
11	RPOPS(KRA)	526.46346	.09525	.30385	119.07626		
11	RPOPS(KRA)	1507.51025	.23055	0.00000	295.73455		
11	RPOPS(KRA)	526.46346	.09525	.30385	119.07626		
11	RTOTS,RTOTNS,RTOT	1803.48135	645.93482	2449.42017			
11	PRABA(TY,PRATP)	771.04966	.46276	.46276			
11	VDRS,VBKRS,VBDRNS,VBKRS	.01000	.40000	.40000	.60000		
11	TERMS1,TERMS2,TERMN1,TERMN2	.00255	.04988	.00890	.29177		
11	RAKS,RSHEL(KID),RAKNS	89.96604	49.42686	188.46692			
TOTAL AIRCRAFT DESTRUCTION FOR DAY 11							
11	BTOTS,BTOTNS,RTOT	906.65741	454.96738	1361.52679			
11	XS,XNS	0.00000	0.00000	0.00000			
11	BAD(KBA,IO),KBAE1,4	156.14010	.21957	.08280	5.22286		
11	RTOTS,RTOTNS,RTOT	1803.48135	645.93482	2449.42017			
11	XS,XNS	.04988	.29177				
11	RA0(KRA,IO),KRAE1,4	366.18761	.06444	.13122	58.22497		

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 12										
12	RS(TY,MS)	557,58512	836,37768	0,00000	2,02160	.48945	103,22258			
12	RA(TY,MS)	557,58512	557,58512	0,00000	2,88801	.48945	172,03763			
12	BANAS	0,00000	0,00000	0,00000		0,00000	68,81505			
RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY 12										
12	RS(TY,MS)	3075,19731	0,00000	0,00000	.55943	.24896	329,12412			
12	RA(TY,MS)	1808,93860	0,00000	0,00000	.32907	.24896	411,40515			
12	RANPS	0,00000	0,00000	0,00000		0,00000	82,28103			
12	RANFTY,MS)	0,00000	0,00000	0,00000		0,00000				
ATTRIBUTION TO BLUE IN AIR-TO-AIR INTERACTION										
12	IRINA,IRARI	0	0	0,00000						
12	RATS,KATSI	3076,00570	3076,00570	0,00000						
12	RITS,BITSI	103,22258	0,00000	0,00000						
12	VTOBA(TYI)	.00050	.00100	0,00000						
12	VRAUBI(KAT)	0,00000	0,00000	0,00000						
12	BSENG(TY,MS)	90,46034	135,99051	0,00000	.32870	.07958				
12	DENOM	32912								
12	SPENG(TY)	0,00000	1,00000	0,00000						
12	RSKAA(TY,MS)	28,90101	43,35151	0,00000	.10478	.02537	5,02708			
12	BAKAA(TY,MS)	28,90101	28,90101	0,00000	.10478	.02537	5,02708			
12	RSFB(TY,MS)	12,35187	37,05560	0,00000	.04478	.02168	0,00000			
12	BAFH(TY,MS)	12,35187	24,70373	0,00000	.04478	.02168	0,00000			
12	RS(TY,MS)	516,33225	755,97057	0,00000	1,87204	.44239	98,19549			
12	RA(TY,MS)	516,33225	503,98938	0,00000	1,87204	.44239	98,19549			
ATTRIBUTION TO RED IN AIR-TO-AIR INTERACTION										
12	RATS,BATSI	1396,47385	1396,47385	0,00000						
12	RITS,RITSI	329,12412	0,00000	0,00000						
12	VTOBA(TYI)	.00100	.00150	0,00000						
12	VRAUBI(KAT)	0,00000	0,00000	0,00000						
12	BSENG(TY,MS)	100,51362	0,00000	0,00000	.01828	.00814				
12	DENOM	32912								
12	SPENG(TY)	0,00000	1,00000	0,00000	.00922	.00410	7,26258			
12	RSKAA(TY,MS)	50,47028	0,00000	0,00000	.0542	.00410	7,26258			
12	BAKAA(TY,MS)	29,60505	0,00000	0,00000	.00453	.00242	0,00000			
12	RSFB(TY,MS)	24,92187	0,00000	0,00000	.00267	.00242	0,00000			
12	BAFH(TY,MS)	14,65981	0,00000	0,00000	.54567	.24243	321,86154			
12	RS(TY,MS)	2999,60536	0,00000	0,00000	.32099	.24243	321,86154			
12	RA(TY,MS)	1764,47374	0,00000	0,00000	.09360	.04424	0,00000			
BLUE LOSSES TO ENEMY SAMS										
12	BSL(TY,MS)	25,81661	75,59706	0,00000	.09360	.04424	0,00000			
12	BAL(TY,MS)	25,81661	50,39804	0,00000	.09360	.04424	0,00000			
12	BS(TY,MS)	490,51563	680,37231	0,00000	1,77843	.39815	98,19549			
12	BA(TY,MS)	490,51563	453,58234	0,00000	1,77843	.39815	98,19549			
RED LOSSES TO ENEMY SAMS										
12	RSL(TY,MS)	149,88027	0,00000	0,00000	.02728	.02424	0,00000			
12	RAL(TY,MS)	88,22369	0,00000	0,00000	.01605	.02424	0,00000			
12	RS(TY,MS)	2849,42509	0,00000	0,00000	.51839	.21819	321,86154			
12	RA(TY,MS)	1876,25006	0,00000	0,00000	.30494	.21819	321,86154			
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK WONE										
12	BAVUL(KBA)	981,15358	2,68962	.41984	167,01055					
12	ABGRA,ABGRAS+BSHEL,BSHELI	200,00000	200,00000	983,06378	789,06378					
12	BAVUL,ABGRAN,BSHELI	1151,27358	0,00000	785,06378						
12	BPOPS(KBA)	602,15144	1,65967	.25766	102,49739					
12	BPOPS(KBA)	280,88653	.76999	.12019	47,81210					
12	BPOPS(KBA)	602,15144	1,65967	.25766	102,49739					
12	BPOPS(KBA)	280,88653	.76999	.12019	47,81210					
12	BTOPTS,BTOTNS,BTOT	906,55741	329,58882	1236,14822						
12	PRABA(TY) PRATP	0,00000	.21819	.21819						
12	IBEX	0,00000	0,00000	0,00000						
12	BAKS,BSHELK(ID),BAKNS	0,00000	0,00000	0,00000						

12	RAVUL(KRA)	1690.90986	1	1690.90986	30760	.22061	404.14257
12	ARGRA,ARORAS,RSHEL,RSHEL1	200.00000	1932.21904	1732.21904	200.00000	1932.21904	1732.21904
12	RAVUL,ARORAN,RSHEL1	205.36003	0.00000	0.00000	205.36003	0.00000	0.00000
12	ROPS(KRA)	1253.07671	222866	0.00000	1253.07671	0.00000	300.69158
12	RPOPS(KRA)	263.74215	0.4798	0.19855	263.74215	0.4798	63.03673
12	RPOPS(KRA)	1450.07673	222866	0.00000	1450.07673	0.00000	300.69158
12	RPOPS(KRA)	263.74215	0.4798	0.19855	263.74215	0.4798	63.03673
12	RPTS(KRA)	1758.99717	327.02541	2086.02254	1758.99717	327.02541	2086.02254
12	PBABA(TY),BATP	680.37351	39815	680.77166	680.37351	39815	680.77166
12	YBDRS,VBKRS,VBDRMS,VBKRN5	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
12	TERMS1,TERMS2,TERMIN1,TERMIN2	107.09257	0.6104	0.01032	107.09257	0.6104	0.01032
12	RAKS,RSHEK(ID),KRN5	107.31254	58.97317	97.31136	107.31254	58.97317	97.31136

TOTAL AIRCRAFT DESTRUCTION FOR DAY 12

12	RTOTS,RTOTNS,RTOT	906.55741	329.58882	1236.14622	906.55741	329.58882	1236.14622
12	XS,XMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
12	BA(KBA, ID),KBA=1,4	13.01666	19839	0.6961	13.01666	19839	0.6961
12	RTOTS,RTOTNS,RTOT	1758.99717	327.02541	2086.02254	1758.99717	327.02541	2086.02254
12	XS,XNS	0.06104	26757	0.00000	0.06104	26757	0.00000
12	RAD(KRA, ID),KRA=1,4	285.51402	0.04772	0.08743	285.51402	0.04772	0.08743

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 13

13	BS(TY,MS)	490.57679	735.86518	0.00000	490.57679	735.86518	0.00000
13	BA(TY,MS)	490.57679	490.57679	0.00000	490.57679	490.57679	0.00000
13	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
13	BANP(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
13	RS(TY,MS)	2586.42349	0.00000	0.00000	2586.42349	0.00000	0.00000
13	RA(TY,MS)	1523.42554	0.00000	0.00000	1523.42554	0.00000	0.00000
13	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
13	RANP(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY 13

13	BS(TY,MS)	2590.45992	2590.45992	0.00000	2590.45992	2590.45992	0.00000
13	BA(TY,MS)	100.20633	0.00000	0.00000	100.20633	0.00000	0.00000
13	VRDDBA(TY)	0.00050	0.00100	0.00000	0.00050	0.00100	0.00000
13	VRDDBA(TY)	76.00000	114.00000	0.00000	76.00000	114.00000	0.00000
13	VRDDBA(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
13	VRDDBA(TY)	24.26422	36.39934	0.00000	24.26422	36.39934	0.00000
13	HAKAA(TY,MS)	24.26422	24.26422	0.00000	24.26422	24.26422	0.00000
13	RSFB(TY,MS)	10.41313	31.82340	0.00000	10.41313	31.82340	0.00000
13	BAFB(TY,MS)	10.41313	20.82627	0.00000	10.41313	20.82627	0.00000
13	RS(TY,MS)	455.49943	668.22944	0.00000	455.49943	668.22944	0.00000
13	BA(TY,MS)	455.49943	445.48630	0.00000	455.49943	445.48630	0.00000

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION

13	IRHAA,IRARI	0	0	0	0	0	0
13	RATS,RATSI	2590.45992	2590.45992	0.00000	2590.45992	2590.45992	0.00000
13	BITS,BITSI	100.20633	0.00000	0.00000	100.20633	0.00000	0.00000
13	VRDDBA(TY)	0.00050	0.00100	0.00000	0.00050	0.00100	0.00000
13	VRDDBA(TY)	76.00000	114.00000	0.00000	76.00000	114.00000	0.00000
13	VRDDBA(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
13	VRDDBA(TY)	24.26422	36.39934	0.00000	24.26422	36.39934	0.00000
13	HAKAA(TY,MS)	24.26422	24.26422	0.00000	24.26422	24.26422	0.00000
13	RSFB(TY,MS)	10.41313	31.82340	0.00000	10.41313	31.82340	0.00000
13	BAFB(TY,MS)	10.41313	20.82627	0.00000	10.41313	20.82627	0.00000
13	RS(TY,MS)	455.49943	668.22944	0.00000	455.49943	668.22944	0.00000
13	BA(TY,MS)	455.49943	445.48630	0.00000	455.49943	445.48630	0.00000

ATTRITION TO RED IN AIR-TO-AIR INTERACTION

13	RATS,RATSI	1228.74454	1228.74454	0.00000	1228.74454	1228.74454	0.00000
13	RITS,RTISI	293.62419	0.00000	0.00000	293.62419	0.00000	0.00000
13	VRDDBA(TY)	0.00100	0.00150	0.00000	0.00100	0.00150	0.00000
13	VRDDBA(TY)	96.31324	0.00000	0.00000	96.31324	0.00000	0.00000
13	VRDDBA(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
13	VRDDBA(TY)	29362	0.00000	0.00000	29362	0.00000	0.00000
13	RSKAA(TY,MS)	48.60831	1.00000	0.00000	48.60831	1.00000	0.00000
13	HAKAA(TY,MS)	24.59313	0.00000	0.00000	24.59313	0.00000	0.00000
13	RSFB(TY,MS)	23.45246	0.00000	0.00000	23.45246	0.00000	0.00000
13	BAFB(TY,MS)	14.03056	0.00000	0.00000	14.03056	0.00000	0.00000
13	RS(TY,MS)	2517.36271	0.00000	0.00000	2517.36271	0.00000	0.00000
13	RA(TY,MS)	1480.40160	0.00000	0.00000	1480.40160	0.00000	0.00000

BLUE LOSSES TO ENEMY SAMS

13	RSL(TY,MS)	22.79497	66.82294	0.00000	0.00000	.08748	.03813	0.00000
13	RAL(TY,MS)	22.79497	44.54863	0.00000	0.00000	.08748	.03813	0.00000
13	BS(TY,MS)	433.10446	601.40950	0.00000	0.00000	1.66217	.34313	95.38942
13	RA(TY,MS)	433.10446	400.93767	0.00000	0.00000	1.66217	.34313	95.38942
13	RSL(TY,MS)	125.46814	0.00000	0.00000	0.00000	.02308	.01567	0.00000
13	RAL(TY,MS)	74.04009	0.00000	0.00000	0.00000	.01358	.01567	0.00000
13	RS(TY,MS)	2391.89458	0.00000	0.00000	0.00000	.43854	.14104	287.50933
13	RA(TY,MS)	1406.76152	0.00000	0.00000	0.00000	.25796	.14104	287.50933

BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1

13	RAVUL(KBA)	865.28153	2.50902	.36095	162.19364
13	ARGHA,ARGHAS,BSHEL,RSHEL1	200.00000	200.00000	985.06378	785.06378
13	RAVUL,ARGHAN,RSHEL1	1030.34513	0.00000	785.06378	
13	BPOPS(KBA)	593.36532	1.72055	.24752	111.22401
13	BPOPS(KBA)	185.88805	.53756	.07731	34.75027
13	BPOPS(KBA)	793.99532	1.24555	.24752	111.22401
13	BPOPS(KBA)	185.88805	.53756	.07731	34.75027
13	BTOTS,BTOTAS,BTOT	906.55741	220.75321	1127.31062	
13	PRABA(TV),RATP	0.00000	.14104	.14104	
13	IR,EX	40	0.00000	0.00000	
13	RAK,RSHELK(ID),RAKNS	0.00000	0.00000	0.00000	

RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1

13	RAVUL(KBA)	1420.79238	.26054	.14283	350.91538
13	ARGHA,ARGHAS,RSHEL,RSHEL1	200.00000	200.00000	1873.24591	1673.24591
13	RAVUL,ARGHAN,RSHEL1	1781.96829	0.00000	1673.24591	
13	HPOPS(KBA)	1200.69562	.22018	0.00000	305.00552
13	HPOPS(KBA)	74.1751	.01431	.12854	19.81832
13	HPOPS(KBA)	1498.01751	.22018	0.00000	305.00552
13	HPOPS(KBA)	74.1751	.01431	.12854	19.81832
13	RTOTS,RTOTAS,RTOT	1705.92132	97.97869	1803.90001	
13	PRABA(TV),RATP	601.40950	.34313	601.74963	
13	VRDRS,VRKRS,VRBRRNS,VRKRRNS	0.00000	.40000	.02000	.60000
13	TERMS1,TERMS2,TERMN1,TERMN2	.00260	.06860	.01154	.29479
13	RAK,RSHELK(ID),RAKNS	117.02644	64.25246	28.88324	

TOTAL AIRCRAFT DESTRUCTION FOR DAY 13

13	BTOTS,BTOTAS,BTOT	906.55741	220.75321	1127.31062	
13	XS,XNS	0.00000	0.00000	0.00000	
13	SADIKRA(ID),KRA=1+4	115.87205	.18060	.05889	4.81691
13	RTOTS,RTOTAS,RTOT	1705.92132	97.97869	1803.90001	
13	XS,XNS	.06860	.29479		
13	RAD(KRA, ID),KRA=1+4	221.72000	.03814	.05660	32.88055

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 14

14	BS(TY,MS)	432.64076	648.96115	0.00000	1.75631	.36095	97.31618
14	BR(TY,MS)	432.64076	432.64076	0.00000	2.50902	.36095	162.19364
14	BANAS	0.00000	0.00000	0.00000			
14	BANF(TY,MS)	0.00000	0.00000	0.00000	.75270	0.00000	64.87746
14	RS(TY,MS)	2212.89946	0.00000	0.00000	.41006	.10493	267.31975
14	RA(TY,MS)	1301.70558	0.00000	0.00000	.24121	.10493	334.14969
14	RANAS	0.00000	0.00000	0.00000			
14	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	66.82994

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION

14	IBIRA,IBARI	0	0	0			
14	RATS,RATSI	2213.41448	2213.41448				
14	BITS,BITSI	97.31618	0.00000				
14	VRIBRATI(VI)	.00050	.00100				
14	VRABRI(KAT)	.2408880	.4808880	0.00000	0.00000	0.00000	0.00000

DENOM		20462	00530	%	
14	DENOM	.26732		1.00000	
14	BPENG(TY)	0.00000		0.00000	4.59342
14	BKAA(TY+MS)	20.68086	.08395	0.00000	4.59342
14	BAKAA(TY+MS)	20.68086	.08395	0.00000	0.00000
14	BSFB(TY+MS)	8.90101	.03613	0.00000	0.00000
14	BRFB(TY+MS)	8.90101	.03613	0.00000	0.00000
14	BS(TY+MS)	403.05889	1.63622	0.00000	92.72276
14	BS(TY+MS)	403.05889	1.63622	0.00000	92.72276
ATTRITION TO RED IN AIR-TO-AIR INTERACTION					
14	BATS,BATS1	1083.71917			
14	RITS,RITS1	267.31975			
14	VRTORATTY	.00150			
14	VRUBI(KAT)	0.00000			
14	RSENG(TY+MS)	91.84615	0.00000	0.00000	.00536
14	DENOM	.26732			
14	RPENG(TY)	0.00000			
14	RKAA(TY+MS)	46.40474	.00860	0.00000	5.22234
14	RAKAA(TY+MS)	27.29690	.00506	0.00000	5.22234
14	RSFB(TY+MS)	22.72071	.00421	0.00000	0.00000
14	RAPB(TY+MS)	13.76512	.00248	0.00000	0.00000
14	RS(TY+MS)	2143.77404	.3725	0.00000	262.09741
14	RS(TY+MS)	1261.04355	.23368	0.00000	262.09741
HLUE LOSSES TO ENEMY SAMS					
14	B(L)(TY+MS)	20.15294	.08181	0.00000	0.00000
14	B(L)(TY+MS)	20.15294	.08181	0.00000	0.00000
14	BS(TY+MS)	382.00595	1.55441	0.00000	92.72276
14	BS(TY+MS)	382.00595	1.55441	0.00000	92.72276
MED LOSSES TO ENEMY SAMS					
14	R(L)(TY+MS)	107.18870	.01986	0.00000	0.00000
14	R(L)(TY+MS)	63.05218	.01168	0.00000	0.00000
14	RS(TY+MS)	2036.58534	.37739	0.00000	262.09741
14	RS(TY+MS)	1197.09138	.22200	0.00000	262.09741
HLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1					
14	BAVUL(KRA)	764.35108	157.60022	.31081	
14	ARQKA,ARURAS,RSHEL,RSHEL1	200.00000	785.06378	.985.06378	
14	AVULT,ARGRAN,RSHEL1	924.60536	0.00000	785.06378	
14	HPOPS(KRA)	584.09559	.23751	120.43366	
14	HPOPNS(KRA)	103.82038	.04222	21.40654	
14	HPOPS(KRA)	784.09559	.23751	120.43366	
14	HPOPNS(KRA)	103.82038	.04222	21.40654	
14	HTOTS,RTUTNS,RTOT	906.55741	1032.14482	.09130	
14	PRABA(TY),PATP	0.00000	0.00000	0.00000	
14	IR4EX	40			
14	HAKS,BSHELK(ID),RAKNS	0.00000	0.00000	0.00000	
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1					
14	BAVUL(KRA)	1211.35650	.22447	.09259	
14	ARQKA,ARURAS,RSHEL,RSHEL1	200.00000	180.99345	150.99345	
14	AVULT,ARGRAN,RSHEL1	1540.50432	0.00000	1540.50432	
14	HPOPS(KRA)	1090.22085	.20202	0.00000	
14	HPOPNS(KRA)	0.00000	0.00000	0.00000	
14	HPOPS(KRA)	129.02285	.20202	0.00000	
14	HPOPNS(KRA)	0.00000	.08333	0.00000	
14	HTOTS,RTUTNS,RTOT	1584.09100	1586.54082	1586.54082	
14	PBARA(TY),PATP	532.11314	532.40910	.02000	
14	VRDPS,VBRKS,VBRNS,VBRKNS	0.00000	0.00000	0.00000	
14	TERMS1,TERMS2,TERMIN1,TERMIN2	0.00000	0.00000	0.00000	
14	RAKS,RSHELK(ID),RAKNS	107.81599	61.46979	0.00000	
TOTAL AIRCRAFT DESTRUCTION FOR DAY 14					
14	RTOTS,RTUTNS,RTOT	906.55741	125.58742	1032.14482	
14	XS,XNS	0.00000	0.00000	0.00000	
14	HAN(KHA,IO),KHA1,4	100.03045	.16577	.05014	
14	RTOTS,RTUTNS,RTOT	1586.45749	.08333	1586.54082	
14	XS,XNS	.06794		.00000	

14	14	14	14	14	14	14	14	14	14	14
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY	15	382.17554	573.26331	0.00000	1.64078	.31081	94.56013			
RS(TY,MS)	15	382.17554	573.26331	0.00000	1.64078	.31081	94.56013			
RA(TY,MS)	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
RANAS	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
BANF(TY,MS)	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY	15	1910.24378	1910.24378	0.00000	.35826	.09259	247.04702			
RS(TY,MS)	15	1910.24378	1910.24378	0.00000	.35826	.09259	247.04702			
RA(TY,MS)	15	1123.67281	1123.67281	0.00000	.21074	.09259	308.80877			
RANAS	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
BANF(TY,MS)	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION	15	0.00000	0.00000	0.00000	0.00000	0.00000	61.76175			
IPIRA,IBARI	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
MATS,BATS1	15	1910.69463	1910.69463	0.00000	0.00000	0.00000	0.00000			
RITS,BITS1	15	94.56013	94.56013	0.00000	0.00000	0.00000	0.00000			
VIDHA(TY)	15	.00050	.00050	0.00000	0.00000	0.00000	0.00000			
VRABR(KAT)	15	58.90990	58.90990	0.00000	.24124	.04571	4.35812			
HSENG(TY,MS)	15	24705	24705	0.00000	0.00000	0.00000	0.00000			
DENOM	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
SPENG(TY)	15	17.80666	17.80666	0.00000	0.00000	0.00000	0.00000			
RKAA(TY,MS)	15	17.80666	17.80666	0.00000	0.00000	0.00000	0.00000			
BAKAA(TY,MS)	15	7.68013	7.68013	0.00000	0.00000	0.00000	0.00000			
RSFB(TY,MS)	15	7.68013	7.68013	0.00000	0.00000	0.00000	0.00000			
BAFB(TY,MS)	15	15.36026	15.36026	0.00000	0.00000	0.00000	0.00000			
RS(TY,MS)	15	356.68875	356.68875	0.00000	1.53049	.28384	90.20201			
RA(TY,MS)	15	356.68875	356.68875	0.00000	1.53049	.28384	90.20201			
ATTRITION TO RED IN AIR-TO-AIR INTERACTION	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
BATS,BATS1	15	957.38993	957.38993	0.00000	0.00000	0.00000	0.00000			
RITS,RITS1	15	247.04702	247.04702	0.00000	0.00000	0.00000	0.00000			
VIDHA(TY)	15	.00100	.00100	0.00000	0.00000	0.00000	0.00000			
VRABR(KAT)	15	87.1498	87.1498	0.00000	.01634	.00422	4.50324			
HSENG(TY,MS)	15	24705	24705	0.00000	0.00000	0.00000	0.00000			
DENOM	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
SPENG(TY)	15	44.07368	44.07368	0.00000	0.00000	0.00000	0.00000			
RKAA(TY,MS)	15	25.92569	25.92569	0.00000	0.00000	0.00000	0.00000			
BAKAA(TY,MS)	15	21.83268	21.83268	0.00000	0.00000	0.00000	0.00000			
RSFB(TY,MS)	15	12.66885	12.66885	0.00000	0.00000	0.00000	0.00000			
BAFB(TY,MS)	15	1844.63645	1844.63645	0.00000	.34596	.08920	242.54378			
RS(TY,MS)	15	1085.08026	1085.08026	0.00000	.20350	.08920	242.54378			
RA(TY,MS)	15	1085.08026	1085.08026	0.00000	.20350	.08920	242.54378			
LOSSES TO ENEMY SAMS	15	17.43444	52.35129	0.00000	.07654	.02838	0.00000			
BSL(TY,MS)	15	17.43444	52.35129	0.00000	.07654	.02838	0.00000			
RALITY(MS)	15	338.45431	471.16163	0.00000	1.45434	.25545	90.20201			
BS(TY,MS)	15	338.45431	471.16163	0.00000	1.45434	.25545	90.20201			
LOSSES TO ENEMY SAMS	15	92.23182	0.00000	0.00000	.01730	.00892	0.00000			
RSLITY(MS)	15	54.25401	0.00000	0.00000	.01018	.00892	0.00000			
RALITY(MS)	15	1752.40463	0.00000	0.00000	.32866	.08028	242.54378			
RSLITY(MS)	15	1030.42625	0.00000	0.00000	.19333	.08028	242.54378			
RA(TY,MS)	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
BAVULT(KBA)	15	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000			
ABORA,ABORAS,BSHEL,BSHEL1	15	200.00000	200.00000	0.00000	985.06378	26794	153.28210			
BAVULT,ABORAS,BSHEL,BSHEL1	15	574.28513	1.86071	0.00000	785.06378	785.06378	785.06378			
BPPOS(KBA)	15	34.11708	.11054	0.00000	130.18394	130.18394	130.18394			
BPPOS(KBA)	15	774.28513	1.86071	0.00000	2.73395	2.73395	2.73395			
BPPOS(KBA)	15	34.11708	.11054	0.00000	130.18394	130.18394	130.18394			
BPPOS(KBA)	15	774.28513	1.86071	0.00000	2.73395	2.73395	2.73395			
BTOTS,BTOTNS,BTOT	15	906.55741	41.77509	948.53250	0.00000	0.00000	0.00000			

ID	PRDRA.....	UVUWUU	UVUWU	UVUWU
15	IRAEK	40.00000	0.00000	0.00000
15	BAKS,BSHELK(I),BANKS			
15	RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE			
15	RAVULIKRAI	1043.49311	1.9570	304.30553
15	ARORA,ARORAS,RSHEL,RSHELI	200.00000	1747.52364	1547.52366
15	RAVUL,RAVULRN,RSHELI	1347.99434	0.00000	273.87498
15	RPOPS(KRA)	939.14380	0.00000	0.00000
15	RPOPS(KRAI)	0.00000	0.00000	0.00000
15	RPOPS(KRA)	1139.14380	0.00000	273.87498
15	RTOTS,RTOTNS,RTOT	0.00000	0.00000	0.00000
15	PRADA(TY),BAP	1413.17491	0.00000	0.00000
15	PRADA(TY),BAP	471.16163	1413.26829	0.00000
15	VDRS,VBARS,VBDRNS,VBDRNS	0.00000	0.00000	0.00000
15	TERMS1,TERMS2,TERMIN1,TERMIN2	0.00000	0.00000	0.00000
15	RAKS,RSHELK(I),BANKS	86.47763	53.46810	0.00000
15	TOTAL AIRCRAFT DESTRUCTION FOR DAY	906.55741	948.53250	
15	BTOTS,BTOTNS,BTOT	0.00000	0.00000	
15	XS,XNS	0.00000	0.00000	
15	BAD(KRA>ID),KBA=1*4	88.34863	0.00000	4.35812
15	RTOTS,RTOTNS,RTOT	1413.17491	0.00000	
15	XS,XNS	0.00000	0.00000	
15	RAD(KRA>ID),KRA=1*4	149.48732	0.00000	21.26247

ID	IRAEK	UVUWUU	UVUWU	UVUWU
16	BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY	338.00123	507.00184	1.53320
16	RS(TY,MS)	338.00123	338.00123	2.19028
16	RA(TY,MS)	0.00000	0.00000	0.00000
16	BANK(TY,MS)	0.00000	0.00000	0.65708
16	RS(TY,MS)	1655.43533	0.00000	0.00000
16	RA(TY,MS)	973.78549	0.00000	0.00000
16	BANK(TY,MS)	0.00000	0.00000	0.00000
16	IRIHA,IRARI	0	0	0.00000
16	RATS,RATSI	1655.83124	1655.83124	0.00000
16	RITS,BITSI	91.64526	0.00000	0.00000
16	VRIIBA,VI	0.00050	0.00100	0.00000
16	VRAURI(KAT)	48.61133	72.91700	0.00000
16	HSENG(TY,MS)	2.30004	0.00000	0.00000
16	DENOM	0.00000	1.00000	0.00000
16	HPENG(TY)	15.38027	23.07040	0.00000
16	SKAA(TY,MS)	15.38027	15.38027	0.00000
16	HAKAA(TY,MS)	6.44621	19.93664	0.00000
16	RSEH(TY,MS)	6.44621	13.29243	0.00000
16	HAFH(TY,MS)	315.97475	463.99280	0.00000
16	AS(TY,MS)	315.97475	309.32653	0.00000
16	RA(TY,MS)	846.80421	846.80421	0.00000
16	RATS,RATSI	230.73704	0.00000	0.00000
16	RITS,BITSI	0.00100	0.00150	0.00000
16	VRIIBA,VI	0.00000	0.00000	0.00000
16	VRAURI(KAT)	42.18315	0.00000	0.00000
16	DENOM	23004	1.00000	0.00000
16	HPENG(TY)	41.60995	0.00000	0.00000
16	SKAA(TY,MS)	24.47595	0.00000	0.00000
16	RSEH(TY,MS)	20.28710	0.00000	0.00000

16	KAPO (KRA),MS	11.25359	0.00000	0.00000	0.00000	0.00227	0.00150	0.00000
16	RS (TY,MS)	1593.53928	0.00000	0.00000	0.00000	0.30262	0.07828	226.14219
16	RA (TY,MS)	937.37605	0.00000	0.00000	0.00000	0.17801	0.07828	226.14219
BLUE LOSSES TO ENEMY SAMS								
16	RSL (TY,MS)	15.79874	46.39928	0.00000	0.00000	0.07166	0.02452	0.00000
16	BAL (TY,MS)	15.79874	30.93285	0.00000	0.00000	0.07166	0.02452	0.00000
16	RS (TY,MS)	300.17401	417.59352	0.00000	0.00000	1.36152	0.22059	87.83508
16	RA (TY,MS)	300.17401	278.39598	0.00000	0.00000	1.36162	0.22059	87.83508
RED LOSSES TO ENEMY SAMS								
16	RSL (TY,MS)	79.67494	0.00000	0.00000	0.00000	0.01513	0.00783	0.00000
16	RAL (TY,MS)	46.86890	0.00000	0.00000	0.00000	0.00890	0.00783	0.00000
16	RS (TY,MS)	1513.86232	0.00000	0.00000	0.00000	287.69	0.07046	226.14219
16	RA (TY,MS)	890.50724	0.00000	0.00000	0.00000	1.16911	0.07046	226.14219

BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE								
16	BAVUL (KRA)	598.51033	2.04885	0.00000	0.00000	0.23124	149.13192	0.00000
16	ARGHA,ARGRAS,BSHEL,RSHEL	200.00000	200.00000	0.00000	0.00000	985.6374	785.06378	0.00000
16	BAVUL,ARGRA,BSHEL,RSHEL	709.92233	0.00000	0.00000	0.00000	749.92233	0.00000	0.00000
16	RPOPS (KRA)	538.45930	1.84397	0.00000	0.00000	2.0811	134.21873	0.00000
16	RPOPS (KRA)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	RPOPS (KRA)	738.45930	1.84397	0.00000	0.00000	2.0811	134.21873	0.00000
16	RPOPS (KRA)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	RTOTS,RTOTNS,RTOT	874.93010	0.00000	0.00000	0.00000	874.93010	0.00000	0.00000
16	PRABA (TY),RATP	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	IRAX	40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	BAKS,BSHELK (ID),BAKNS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE								
16	BAVUL (KRA)	902.44884	1.71138	0.00000	0.00000	0.07165	283.65145	0.00000
16	ARGHA,ARGRAS,RSHEL,RSHEL	200.00000	200.00000	0.00000	0.00000	194.05555	1494.05555	0.00000
16	BAVUL,ARGRA,RSHEL,RSHEL	1186.26366	0.00000	0.00000	0.00000	1186.26366	0.00000	0.00000
16	RPOPS (KRA)	812.19675	0.00000	0.00000	0.00000	0.00000	255.28630	0.00000
16	RPOPS (KRA)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	RPOPS (KRA)	1012.19675	0.00000	0.00000	0.00000	0.00000	255.28630	0.00000
16	RPOPS (KRA)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	RTOTS,RTOTNS,RTOT	1267.70178	0.00000	0.00000	0.00000	1267.70178	0.00000	0.00000
16	PRABA (TY),RATP	417.57352	0.00000	0.00000	0.00000	417.57352	0.00000	0.00000
16	VDRS,VBKRS,VDRNS,VBKNS	0.01000	0.00000	0.00000	0.00000	0.00000	0.60000	0.00000
16	TERMS1,TERMS2,TERMIN1,TERMIN2	0.0211	0.05504	0.00000	0.00000	0.00000	0.00000	0.00000
16	BAKS,RSHELK (ID),BAKNS	69.77399	46.62250	0.00000	0.00000	0.00000	0.00000	0.00000

TOTAL AIRCRAFT DESTRUCTION FOR DAY								
16	RTOTS,RTOTNS,RTOT	874.93010	0.00000	0.00000	0.00000	874.93010	0.00000	0.00000
16	XS,ANS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	BAD (KRA, ID),KRA=1,4	77.49212	0.14143	0.00000	0.00000	0.03671	4.11018	0.00000
16	RTOTS,RTOTNS,RTOT	1267.70178	0.06449	0.00000	0.00000	1267.70178	0.00000	0.00000
16	XS,ANS	0.05504	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
16	RAD (KRA, ID),KRA=1,4	127.05847	0.02204	0.00000	0.00000	0.00984	17.94645	0.00000

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY								
17	RS (TY,MS)	299.25517	446.88275	0.00000	0.00000	1.43420	0.23123	89.47915
17	BA (TY,MS)	299.25517	299.25517	0.00000	0.00000	2.04885	0.23123	149.13192
17	BANKS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
17	BANF (TY,MS)	1439.43594	0.00000	0.00000	0.00000	0.61466	0.00000	59.65277
17	RS (TY,MS)	866.2702	0.00000	0.00000	0.00000	0.27691	0.07165	215.67989
17	RANS	0.00000	0.00000	0.00000	0.00000	0.16289	0.07165	269.59986
17	RANF (TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
17	IRRA,IRARI	1439.78450	1439.78450	0.00000	0.00000	0.00000	0.00000	53.91997
17	RATS,RATSI	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

17	PAUINMAA(U),KRA=1*4	68,05505	13099	03150	3*85307		
17	RTOTS,RTOTNS,RTOT	1144,5242	05657	1144,6099			
17	AS,ANS	04947	0,00000				
17	HADIKRA, ID),KRA=1*4	108,35481	01994	00880	15,23030		
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY							
1R	BS(TY,MS)	302,70764	454,06146	0,00000	1,34250	.19973	87,16731
1R	BA(TY,MS)	302,70764	302,70764	0,00000	1,91786	.19973	145,27885
1R	BANAS	0,00000	0,00000	0,00000	.57536	0,00000	58,11154
1R	BANF(TY,MS)	0,00000	0,00000	0,00000	.24471	.06285	203,49565
1R	RS(TY,MS)	1295,23276	0,00000	0,00000	.14395	.06285	254,36956
1R	RA(TY,MS)	738,7221	0,00000	0,00000	0,00000	0,00000	50,87391
1R	PANAS	0,00000	0,00000	0,00000			
1R	PANF(TY,MS)	0,00000	0,00000	0,00000			
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION							
1R	IBIRA,IBARI	0	0				
1R	RATS,RATSI	1255,54032	1255,54032	0,00000			
1R	RITS,RTSI	87,16731	0,00000	0,00000			
1R	VRIHA(TYI)	00050	0,00000	0,00000			
1R	VRAPI(KAT)	0,00000	0,00000	0,00000	0,00000	.02657	
1R	SENG(TY,MS)	40,26616	60,39923	0,00000	.17858		
1R	QENOM	0,20350	0,00000	0,00000			
1R	PENG(TY)	0,00000	1,00000	0,00000	.05626	.00837	3,59104
1R	PKAA(TY,MS)	12,68582	19,02812	0,00000	.05626	.00837	3,59104
1R	PAKAA(TY,MS)	12,68582	12,68582	0,00000	.02446	.00728	0,00000
1R	PSFB(TY,MS)	5,51607	16,54820	0,00000	.02446	.00728	0,00000
1R	SAFB(TY,MS)	5,51607	11,03214	0,00000	.02446	.00728	0,00000
1R	RS(TY,MS)	284,50576	418,48453	0,00000	1,26178	.18408	83,57627
1R	RA(TY,MS)	284,50576	278,98969	0,00000	1,26178	.18408	83,57627
ATTRITION TO RED IN AIR-TO-AIR INTERACTION							
1R	RATS,RATSI	758,31134	758,31134	0,00000			
1R	RITS,RTSI	203,49565	0,00000	0,00000			
1R	VRIHA(TYI)	00100	0,00000	0,00000			
1R	VRAPI(KAT)	0,00000	0,00000	0,00000	0,00000	.00360	
1R	SENG(TY,MS)	71,80255	0,00000	0,00000	.01400		
1R	QENOM	0,20350	0,00000	0,00000			
1R	PENG(TY)	0,00000	1,00000	0,00000	.00710	.00182	3,22593
1R	PKAA(TY,MS)	36,42386	0,00000	0,00000	.00418	.00182	3,22593
1R	PAKAA(TY,MS)	21,42580	0,00000	0,00000	.00345	.00106	0,00000
1R	PSFB(TY,MS)	17,68935	0,00000	0,00000	.00203	.00106	0,00000
1R	SAFB(TY,MS)	10,40550	0,00000	0,00000	.23416	.05997	200,26972
1R	RS(TY,MS)	1201,11956	0,00000	0,00000	.13774	.05997	200,26972
1R	RA(TY,MS)	706,54092	0,00000	0,00000	.06309	.01841	0,00000
BLUE LOSSES TO ENEMY SAMS							
1R	BSL(TY,MS)	14,22529	41,84445	0,00000	.06309	.01841	0,00000
1R	BAL(TY,MS)	14,22529	27,89697	0,00000	.06309	.01841	0,00000
1R	BS(TY,MS)	270,28047	376,63008	0,00000	1,19869	.16568	83,57627
1R	BA(TY,MS)	270,28047	251,09072	0,00000	1,19869	.16568	83,57627
MED LOSSES TO ENEMY SAMS							
1R	BSL(TY,MS)	60,05598	0,00000	0,00000	.01171	.00600	0,00000
1R	BAL(TY,MS)	35,32705	0,00000	0,00000	.00689	.00600	0,00000
1R	BS(TY,MS)	1141,06358	0,00000	0,00000	.22445	.05397	200,26972
1R	BA(TY,MS)	671,21317	0,00000	0,00000	.13085	.05397	200,26972
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE							
1R	BAVUL(KBA)	537,91939	1,79851	.17295	141,60781		
1R	ABORA,ABORAS,BSHEL,BSHELL	200,00000	985,06378	0,00000	785,06378		
1R	BAVUL,ABORAN,BSHELL	681,57867	0,00000	681,57867			
1R	BPOPSTKBT)	884,12745	1,01866	.15566	127,51903		
1R	BPOPMS(KBA)	0,00000	0,00000	0,00000	.00000		
1R	BPOPMS(KBA)	0,00000	0,00000	0,00000	.00000		

18	BPOPS(KBA)	1.0100	0.0000	0.0000	1.0100	0.0000	0.0000
18	BTOTS(BTOTMS,BTOT)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	PRABA(ITV),RATP	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	IRAKEN	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	RAKS,RSHELK(ID),BAKNS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	MED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1						
18	HAVUL(KRA)	681.61937	0.0000	0.0000	0.0000	0.0000	0.0000
18	AGRA,ARMS,RSHEL,RSHEL1	200.00000	1606.68670	251.14364	1406.68670	0.0000	0.0000
18	RAVULT,ANGRN,RSHEL1	932.89589	0.0000	932.89589	0.0000	0.0000	0.0000
18	RPOPS(KBA)	613.45743	0.0000	0.0000	0.0000	0.0000	0.0000
18	RPOPS(KRA)	813.45743	0.0000	0.0000	0.0000	0.0000	0.0000
18	RPOPS(KRA)	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	RTOTS,RTOTMS,RTOT	1039.60630	0.0000	0.0000	0.0000	0.0000	0.0000
18	PRABA(ITV),BATP	376.63608	0.0000	0.0000	0.0000	0.0000	0.0000
18	VDRMS,VBKRS,VDRMS,VBKRS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	TERMS1,TERMS2,TERMN1,TERMN2	0.0276	0.0000	0.0000	0.0000	0.0000	0.0000
18	RAKS,RSHELK(ID),RAKNS	52.71453	0.0000	0.0000	0.0000	0.0000	0.0000
18	TOTAL AIRCRAFT DESTRUCTION FOR DAY 18	813.42080	0.0000	813.42080	0.0000	0.0000	0.0000
18	RTOTS,RTOTMS,BTOT	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	XS,XNS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	RAD(KBA,ID),KBA=1,4	67.49589	0.0000	0.0000	0.0000	0.0000	0.0000
18	RTOTS,RTOTMS,RTOT	1039.60630	0.0000	0.0000	0.0000	0.0000	0.0000
18	XS,XNS	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
18	RAD(KRA,ID),KRA=1,4	98.00022	0.0000	0.0000	0.0000	0.0000	0.0000

19	RS(TY,MS)	493.43454	0.00000	0.00000	1.25896	.17295	85.01269
19	BA(TY,MS)	268.95970	0.00000	0.00000	1.79851	.17295	141.68781
19	HAVAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	RS(TY,MS)	1088.63240	0.00000	0.00000	0.21559	.05503	191.74603
19	RALTY,MS)	640.37200	0.00000	0.00000	0.12682	.05503	239.68254
19	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	IRTRA,IBARI	0	0	0	0	0	0
19	RATS,RATSI	1088.90300	0.00000	0.00000	0.00000	0.00000	0.00000
19	BITS,RITSI	85.01269	0.00000	0.00000	0.00000	0.00000	0.00000
19	VRAIBA(TYI)	0.00500	0.00000	0.00000	0.00000	0.00000	0.00000
19	VRAUBI(KAT)	35.04503	0.00000	0.00000	0.00000	0.00000	0.00000
19	RSENG(TY,MS)	19175	0.00000	0.00000	0.00000	0.00000	0.00000
19	RSENG(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	RSKAA(TY,MS)	11.02907	0.00000	0.00000	0.00000	0.00000	0.00000
19	HAKAA(TY,MS)	11.02907	0.00000	0.00000	0.00000	0.00000	0.00000
19	RSFB(TY,MS)	4.40319	0.00000	0.00000	0.00000	0.00000	0.00000
19	BAFB(TY,MS)	4.40319	0.00000	0.00000	0.00000	0.00000	0.00000
19	RS(TY,MS)	253.12743	0.00000	0.00000	0.00000	0.00000	0.00000
19	BA(TY,MS)	248.32424	0.00000	0.00000	0.00000	0.00000	0.00000
19	ATTRITION TO RED IN AIR-TO-AIR INTERACTION	673.83115	0.00000	0.00000	0.00000	0.00000	0.00000
19	RATS,RATSI	191.74603	0.00000	0.00000	0.00000	0.00000	0.00000
19	RITS,RITSI	0.00100	0.00000	0.00000	0.00000	0.00000	0.00000
19	VADRA(TYI)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
19	VRAURI(KAT)	66.33572	0.00000	0.00000	0.00000	0.00000	0.00000
19	RSENG(TY,MS)	0.19175	0.00000	0.00000	0.00000	0.00000	0.00000
19	RSENG(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

RED LOSSES TO BLUE AIR-TO-AIR INTERACTION

20	IRIS*(RARI)	0	94551921	0	0.00000	0.00000	0.00000	0.00000	5.04763	
20	RATS*(RATS)	4551921	94551921	0	0.00000	0.00000	0.00000	0.00000		
20	RITS*(RITS)	8302210	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
20	VRIDRA*(YI)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
20	VRAUBI*(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
20	RSENG*(TY,MS)	30.0704	45.110561	0.00000	0.00000	0.00000	0.00000	0.00000	5.04763	
20	DENOH	18171	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
20	RPEHA*(TY)	0.00000	14.10000	0.00000	0.00000	0.00000	0.00000	0.00000	1.58571	3.04744
20	RPEHA*(TY,MS)	9.44660	9.44660	0.00000	0.00000	0.00000	0.00000	0.00000	0.4666	0.4666
20	SKRA*(TY,MS)	9.44660	9.44660	0.00000	0.00000	0.00000	0.00000	0.00000	1.58571	3.04744
20	SKRA*(TY,MS)	9.44660	9.44660	0.00000	0.00000	0.00000	0.00000	0.00000	0.4666	0.4666
20	HSEFI*(TY,MS)	4.12476	12.37428	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	HSEFI*(TY,MS)	4.12476	8.24952	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RA*(TY,MS)	225.61487	332.23516	0.00000	0.00000	0.00000	0.00000	0.00000	1.11432	37.17942
20	RA*(TY,MS)	225.61487	221.49011	0.00000	0.00000	0.00000	0.00000	0.00000	1.11432	37.17942
20	RA*(TY,MS)	639.29682	639.29682	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RITS*(RITS)	181.71316	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	VRTURA*(YI)	0.00000	0.00150	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	VRAURI*(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RSENG*(TY,MS)	60.93290	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	DENOH	18171	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RPENG*(TY)	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RPENG*(TY,MS)	30.06725	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	ASKRA*(TY,MS)	18.21603	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	AKRA*(TY,MS)	14.98283	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RSFB*(TY,MS)	8.13433	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RAFBI*(TY,MS)	9.00.33057	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RA*(TY,MS)	529.60621	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RA*(TY,MS)	11.28074	33.22352	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	BAL*(TY,MS)	11.28074	22.14901	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	BS*(TY,MS)	214.33413	299.01164	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	BA*(TY,MS)	214.33413	199.34110	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RSL*(TY,MS)	45.01653	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RAL*(TY,MS)	26.48031	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RS*(TY,MS)	855.74404	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RA*(TY,MS)	503.12590	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

BLUE AIRBASE--RED LOSSES CAUSED BY RED ATTACK WONE

20	RAVUL(KRA)	426.04951	1.58527	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	ARORA	200.00000	200.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	AVUL*(ARORA,RSHEL)	597.80374	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	AVUL*(ARORA,RSHEL)	383.44456	1.42674	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RPOPS(KRA)	583.00000	1.42674	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RPOPS(KRA)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RTOTS*(RTOTS,RTOT)	738.02337	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	PRADA*(TY,RTOT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	IR4EX	40	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	BAKS*(RSHELKID),RAKNS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK	511.93933	1.0505	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RAVUL(KRA)	200.00000	200.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	ARORA	736.57332	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	AVUL*(ARORA,RSHEL)	469.74540	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RPOPS(KRA)	66.04940	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RPOPS(KRA)	862.91599	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RTOTS*(RTOTS,RTOT)	299.01164	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	PRADA*(TY,RTOT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RED LOSSES TO ENEMY SAMS	30.0280	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
20	RAKS*(RSHELKID),RAKNS	30.0280	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

TOTAL AIRBASE LIFE-CYCLE-INITIAL EMB D&C

20	BTOTS,RTOTS,BTOT	738.02337	0.0000	738.02337	0.0000	1.10959	34.84624	81.19363
20	X5,ANS	0.00000	0.00000	0.00000	0.00000	1.58527	34.84624	135.32212
20	BAD(KBA,JD),KBA=1,4	52.32295	1.0237	5.30365	3.04744			
20	RTOTS,RTOTS,RTOT	862.91599	0.0377	862.95376				
20	X5,ANS	0.00000	0.00000					
20	KAD(KKA,JD),KKA=1,4	74.83795	-0.1323	0.00613	11.82881			

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 21

21	BS(TY,MS)	213.02475	319.53113	0.00000	1.10959	34.84624	81.19363
21	BA(TY,MS)	213.02475	213.02475	0.00000	1.58527	34.84624	135.32212
21	BANAS	0.00000	0.00000	0.00000			
21	BANF(TY,MS)	0.00000	0.00000	0.00000	4.7558	0.00000	54.12909
21	RS(TY,MS)	819.05612	0.00000	0.00000	16.799	0.4196	172.25011
21	RA(TY,MS)	481.79772	0.00000	0.00000	0.9882	0.4196	215.31264
21	HANAS	0.00000	0.00000	0.00000			
21	GANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	43.06253

MED SORTIES AND AIRCRAFT AT BEGINNING OF DAY 21

21	IRRA,IBARI	0	0	0			
21	RATS,BATSI	819.26607	819.26607	0.00000			
21	BITS,BITSI	81.19363	0.00000	0.00000			
21	VROBA(TY)	0.0000	0.0000	0.0000			
21	VRAUBI(KAT)	0.0000	0.0000	0.0000			
21	BSENG(TY,MS)	26.24577	39.36666	0.00000	0.00000	4.29324	
21	DENGM	0.17225					
21	RPENG(TY)	0.00000	1.00000	0.00000			
21	BKAA(TY,MS)	8.23698	12.35547	0.00000	0.4291	1.34739	2.77573
21	BAKAA(TY,MS)	8.23698	8.23698	0.00000	0.4291	1.34739	2.77573
21	RSFB(TY,MS)	3.60176	10.80352	0.00000	0.1876	1.17834	0.00000
21	BAFB(TY,MS)	3.60176	7.20352	0.00000	0.1876	1.17834	0.00000
21	RS(TY,MS)	201.18602	296.37639	0.00000	1.04802	32.32051	78.41790
21	BA(TY,MS)	201.18602	197.58426	0.00000	1.04802	32.32051	78.41790

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION

21	RATS,BATSI	568.51782	568.51782	0.00000	0.00000		
21	RITS,RTSI	172.25011	0.00000	0.00000			
21	VBIORA(TY)	0.0000	-0.0150	0.00000	0.00000		
21	VBAURI(KAT)	55.49984	0.00000	0.00000	0.00000	0.00284	
21	RSENG(TY,MS)	0.17225	1.00000	0.00000			
21	RPENG(TY)	28.23095	0.00000	0.00000	0.00379	0.0145	2.27413
21	BKAA(TY,MS)	16.60626	0.00000	0.00000	0.00341	0.0145	2.27413
21	BAKAA(TY,MS)	13.63459	0.00000	0.00000	0.00280	0.0084	0.00000
21	RSFB(TY,MS)	8.02035	0.00000	0.00000	0.0164	0.0084	0.00000
21	BAFB(TY,MS)	777.19888	0.00000	0.00000	15.940	0.3968	169.97599
21	RS(TY,MS)	457.17110	0.00000	0.00000	0.9377	0.3968	169.97599

ATTRITION TO RED IN AIR-TO-AIR INTERACTION

21	BAL(TY,MS)	10.05930	29.63764	0.00000	0.5240	3.23205	0.00000
21	BAL(TY,MS)	10.05930	19.75443	0.00000	0.5240	3.23205	0.00000
21	BS(TY,MS)	191.12672	266.73475	0.00000	9.9562	29.08846	78.41790
21	BA(TY,MS)	191.12672	177.02563	0.00000	9.9562	29.08846	78.41790

MED LOSSES TO ENEMY SAMS

21	RS(TY,MS)	36.85454	0.00000	0.00000	0.0797	0.0397	0.00000
21	RAL(TY,MS)	22.85956	0.00000	0.00000	0.0469	0.0397	0.00000
21	RS(TY,MS)	738.33333	0.00000	0.00000	15.143	0.3571	169.97599
21	RA(TY,MS)	434.31255	0.00000	0.00000	0.8908	0.3571	169.97599

BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1

21	BAVUL(TKBA)	379.75782	1.48996	30.26680	132.54699		
21	ABORA,ABORAS,BSHEL,BSHEL1	200.00000	200.00000	985.06378	785.66378		
21	RAVUL(T,ABORAS,BSHEL,BSHEL1)						

21	BAKES	0.00000	244.06157						
21	BOPS(KBA)	1.34097	27.24012	119.29229					
21	BOPMS(KBA)	0.00000	0.00000	0.00000					
21	BOPS(KBA)	1.34097	27.24012	119.29229					
21	BOPMS(KBA)	0.00000	0.00000	0.00000					
21	BTOTS,RTOTMS,BTOT	0.00000	0.00000	0.00000					
21	PRBA(TY),BTP	0.03571	0.03571						
21	IB4EX	40							
21	BAKES,BSHELK(ID),BANS	0.00000	0.00000						
21	HED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK	442.33290							
21	RAVULT(KBA)	0.00000	0.00000	213.03851					
21	ARORA,ARORAS,RSHEL,RSHEL1	200.00000	1495.30241	1295.30241					
21	RAVULT,ARORAN,RSHEL1	655.6214	655.6214						
21	RPOPS(KBA)	398.09961	0.00000	191.73466					
21	RPOPS(KBA)	0.00000	0.00000	0.00000					
21	RPOPS(KBA)	598.09961	0.00000	191.73466					
21	RPOPS(KBA)	0.00000	0.00000	0.00000					
21	RTOTS,RTOTMS,RTOT	789.91592	789.94881						
21	PRBA(TY),BTP	266.73875	275.82721						
21	VRODS,VBKRS,VBOPMS,VBKRS	0.10000	0.00000	0.60000					
21	TERMS1,TERMS2,TERMN1,TERMN2	0.0283	0.4100	0.00000					
21	RAKS,RSHELK(ID),RAKNS	30.65424	0.00000	0.00000					
21	TOTAL AIRCRAFT DESTRUCTION FOR DAY	21	689.65542	10.13539					
21	BTOTS,RTOTMS,BTOT	0.00000	689.65542						
21	XS,XNS	0.00000	0.00000	2.77573					
21	BAD(KRA,ID),KBA=1+4	46.29168	4.57944						
21	RTOTS,RTOTMS,RTOT	789.91592	789.94881						
21	XS,XNS	0.4100	0.00000						
21	RAD(KRA, ID),KRA=1+4	63.90734	0.01144						

22	BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY	22	189.87491	0.00000	1.04297	30.26680	79.52819
22	BS(TY,MS)	189.87491	284.81837	0.00000	1.48946	30.26680	132.54699
22	BA(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
22	BANS	0.00000	0.00000	0.00000	0.44699	0.00000	53.01880
22	BANF(TY,MS)	0.00000	0.00000	0.00000	14854	0.3655	164.14180
22	RS(TY,MS)	778.27765	0.00000	0.00000	0.08737	0.3655	205.17725
22	RA(TY,MS)	417.81038	0.00000	0.00000	0.00000	0.00000	0.00000
22	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000	41.03545
22	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
22	IRIRA,IBARI	0	0	0	0	0	0
22	RATS,RATS1	710.46273	710.46273				
22	HITS,BITS1	79.52819	0.00000				
22	VRIURA(TY)	0.0050	0.00000				
22	VRAUBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
22	BFNG(TY,MS)	22.96603	34.44905			3.66090	
22	DENUM	1.6414					
22	BENG(TY)	0.00000	1.00000				
22	BSKAA(TY,MS)	7.20132	10.80198	0.00000	0.03956	1.14789	2.51553
22	BAKAA(TY,MS)	7.20132	7.20132	0.00000	0.03956	1.14789	2.51553
22	BFBI(TY,MS)	3.15294	9.45883	0.00000	0.1732	1.00516	0.00000
22	BAB(TY,MS)	3.15294	6.30589	0.00000	0.1732	1.00516	0.00000
22	HS(TY,MS)	179.52465	264.55756	0.00000	0.98610	28.11374	77.01267
22	RA(TY,MS)	179.52465	176.37171	0.00000	0.98610	28.11374	77.01267
22	HED SORTIES AND AIRCRAFT AT BEGINNING OF DAY	22	506.00705	506.00705			
22	RTS,BATS	164.14180	0.00000				
22	HITS,BITS1	0.0100	0.00000				
22	VRIURA(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
22	VRAUBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000

22	HSL (TY,MS)	0.000000	0.01072	0.00237	
22	DEFNUM				
22	APFNG (TY)	0.00000			
22	ASKAA (TY,MS)	1.00000			
22	KAKAA (TY,MS)	0.00000	0.0535	0.0132	1.98624
22	KAFB (TY,MS)	0.00000	0.00315	0.0132	1.98624
22	RFAH (TY,MS)	0.00000	0.00258	0.0076	0.00000
22	RS (TY,MS)	0.00000	0.0152	0.0076	0.00000
22	RA (TY,MS)	0.00000	0.14060	0.0347	162.15557
22	RA (TY,MS)	0.00000	0.08271	0.0347	162.15557
BLUE LOSSES TO ENEMY SAMS					
22	RSL (TY,MS)	26.45976	0.04930	2.81137	0.00000
22	BAL (TY,MS)	17.63717	0.04930	2.81137	0.00000
22	BS (TY,MS)	238.10181	0.93679	25.30237	77.01267
22	RA (TY,MS)	158.73454	0.93679	25.30237	77.01267
RED LOSSES TO ENEMY SAMS					
22	RSL (TY,MS)	0.00000	0.0703	0.0345	0.00000
22	RAL (TY,MS)	0.00000	0.0014	0.00345	0.00000
22	RS (TY,MS)	0.00000	0.13357	0.03102	162.15557
22	RA (TY,MS)	0.00000	0.07857	0.03102	162.15557
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1					
22	RAVUL (KRA)	1.40110	130.03146		
22	ARMA, ARQAS, BSHEL, RSHEL	200.00000	985.06378		
22	RAVUL, ARGRAN, RSHEL	0.00000	496.48188		
22	RPOPS (KRA)	1.26099	23.67678		
22	BP0PS (KBA)	0.00000	0.00000		
22	BP0PS (KBA)	504.86761	23.67678		
22	BT0TS, BT0TNS, RT0T	0.00000	117.02832		
22	PRADA (TY), PATP	646.83369	0.00000		
22	IR4EX	40	0.03102		
22	BKS, BSHELK (ID), BKANS	0.00000	0.00000		
MED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1					
22	RAVUL (KRA)	382.97467	203.19102		
22	ARMA, ARQAS, RSHEL, BSHEL	200.00000	1266.64817		
22	RAVUL, ARGRAN, RSHEL	0.00000	586.24577		
22	RPOPS (KRA)	0.00000	182.87192		
22	BP0PS (KBA)	0.00000	0.00000		
22	BP0PS (KBA)	544.67720	0.00000		
22	RT0TS, RT0TNS, RT0T	0.00000	182.87192		
22	PRADA (TY), PATP	727.62119	0.00000		
22	VR0PS, VR0PS, VR0TNS, VR0TNS	238.10181	0.00000		
22	TERMS1, TERMS2, TERMS1, TERMS2	0.00000	0.00000		
22	RKS, RSHELK (ID), RKANS	26.80136	0.00000		
TOTAL AIRCRAFT DESTRUCTION FOR DAY 22					
22	BT0TS, BT0TNS, BT0T	646.83369	646.83369		
22	XS, XNS	0.00000			
22	RA0 (KBA, ID), KBAE1, 4	41.01604	2.51553		
22	RT0TS, RT0TNS, RT0T	727.62119			
22	XS, XNS	0.00000			
22	RA0 (KRA, ID), KRAE1, 4	54.89847	8.72218		

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 23					
23	BS (TY,MS)	169.37089	25.05034	0.00000	26.30753
23	BA (TY,MS)	169.37089	169.37089	0.00000	1.40110
23	BANS	0.00000	0.00000	0.00000	0.00000
23	BAF (TY,MS)	0.00000	0.00000	0.00000	52.01258
RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY 23					
23	RS (TY,MS)	616.95024	0.00000	0.00000	0.00000
23	RS (TY,MS)	616.95024	0.00000	0.00000	0.00000

CD	NAME	00000000	00000000	00000000	00000000	00000000	00000000	00000000	00000000
23	RANAS	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	39.29101
23	RANF(TY,MS)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
ATTENTION TO BLUE IN AIR-TO-AIR INTERACTION									
23	IRIS,IRART	0	0	0	0	0	0	0	
23	BATS,BATSI	617.11366	617.11366	0.000000	0.000000	0.000000	0.000000	0.000000	3.12877
23	BITS,BITSI	78.01888	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	VRUBA(TYI)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	VRUBI(KAT)	20.14337	30.21506	0.000000	0.000000	0.000000	0.000000	0.000000	
23	HSENG(TY,MS)	15716	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	HSENG(TY)	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	BKAA(TY,MS)	6.31126	9.46688	0.000000	0.000000	0.000000	0.000000	0.000000	
23	BAKAA(TY,MS)	6.31126	6.31126	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RSFB(TY,MS)	2.76642	8.29927	0.000000	0.000000	0.000000	0.000000	0.000000	
23	BAFB(TY,MS)	2.76642	5.53285	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RS(TY,MS)	160.29321	236.29018	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RA(TY,MS)	160.29321	157.52679	0.000000	0.000000	0.000000	0.000000	0.000000	
ATTENTION TO RED IN AIR-TO-AIR INTERACTION									
23	BATS,BATSI	450.71553	450.71553	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RITS,RITSI	157.16406	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	VRUBA(TYI)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	VRUBI(KAT)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	HSENG(TY,MS)	45.38154	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	DENOM	15716	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	APENG(TY)	0.000000	1.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RSKAA(TY,MS)	23.11858	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RAKAA(TY,MS)	13.59916	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RSFB(TY,MS)	11.13144	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	BAFB(TY,MS)	6.54793	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RS(TY,MS)	582.70018	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RA(TY,MS)	342.76481	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
BLUE LOSSES TO ENEMY SAMS									
23	BAL(TY,MS)	8.01466	23.62902	0.000000	0.000000	0.000000	0.000000	0.000000	
23	BAL(TY,MS)	8.01466	15.75268	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RS(TY,MS)	152.27855	212.66117	0.000000	0.000000	0.000000	0.000000	0.000000	
23	BA(TY,MS)	152.27855	141.77411	0.000000	0.000000	0.000000	0.000000	0.000000	
RED LOSSES TO ENEMY SAMS									
23	ASL(TY,MS)	29.13501	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RAL(TY,MS)	17.13824	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RS(TY,MS)	553.56517	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RA(TY,MS)	325.62657	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1									
23	RAVUL(KBA)	302.35193	1.31814	22.48045	127.76176	0.000000	0.000000	0.000000	
23	ARQA,ARQAS,RSHEL,RSHELL	200.00000	200.00000	985.06378	785.06378	0.000000	0.000000	0.000000	
23	RAVUL,ARQRAN,RSHELL	454.31229	0.000000	454.31229	0.000000	0.000000	0.000000	0.000000	
23	RPOPS(KBA)	272.11674	1.18633	20.59241	114.98558	0.000000	0.000000	0.000000	
23	RPOPS(KBA)	472.11674	1.18633	20.59241	114.98558	0.000000	0.000000	0.000000	
23	RPOPS(KBA)	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RTOTS,RTOTMS,RTOT	608.48106	0.000000	608.48106	0.000000	0.000000	0.000000	0.000000	
23	PRARA(TY),RATP	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	IR4EX	40	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RAKS,RSHEL(ID),BAKNS	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1									
23	RAVUL(KBA)	332.17450	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	AVORA,ARQAS,RSHEL,RSHELL	200.00000	200.00000	1437.67359	1237.67359	0.000000	0.000000	0.000000	
23	RAVUL,ARQRAN,RSHELL	526.96150	0.000000	526.96150	0.000000	0.000000	0.000000	0.000000	
23	RPOPS(KBA)	298.05705	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RPOPS(KBA)	498.95705	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	RPOPS(KBA)	674.26019	0.000000	674.26019	0.000000	0.000000	0.000000	0.000000	
23	RTOTS,RTOTMS,RTOT	212.66117	22.02106	234.68222	0.000000	0.000000	0.000000	0.000000	
23	PRARA(TY),RATP	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	
23	VADKS,VARKS,VBDRNS,VBKHNS	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	

23 QAKS+RSHLX(ID),RAKNS 22,30356 23,77791 0.00000 0.00000 0.00000 2,26970 7,53575
 TOTAL AIRCRAFT DESTRUCTION FOR DAY 23
 23 RTOTS,RTOTNS,RTOT 60R,RR106 .00000 608,RR104
 23 X5,ANS 0.00000 0.00000
 23 HAD(KRA>ID),KRA=1,4 36,38985 .08296 3,42708
 23 RTOTS,RTOTNS,RTOT 674,26535 .02484 674,29019
 23 X5,ANS 0.00000 0.00000
 23 RAD(KRA>ID),KRA=1,4 47,24206 .00867 .00414

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 24
 24 BS(TY,MS) 151,17597 226,76395 0.00000 0.00000 0.00000 0.00000 22,88045 76,65706
 24 BA(TY,MS) 151,17597 151,17597 0.00000 0.00000 0.00000 1,31814 22,88045 127,76176
 24 BANAS 0.00000
 24 BANF(TY,MS) 0.00000 0.00000 0.00000 0.00000 0.00000 .39544 0.00000 51,10470
 RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY 24
 24 BS(TY,MS) 536,6374 0.00000 0.00000 .11690 0.02760 151,13546
 24 BA(TY,MS) 315,66995 0.00000 0.00000 .06877 .02760 188,91933
 24 RANAS 0.00000
 24 RANF(TY,MS) 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 37,78387

ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION
 24 IBINA,IBARI 0
 24 RATS,RATSI 536,78324 0.00000 536,78324
 24 RITR,RTI 76,65706 0.00000 76,65706
 24 VRIBRA(I,VI) .00056
 24 VRAUBI(K,AT) 0.00000 0.00000 0.00000
 24 VSENG(TV,MS) 17,70579 26,65569
 24 DENUM 15114
 24 RPENG(TV) 0.00000 1.00000
 24 PSKAA(TV,MS) 5,54351 8,31541
 24 BAKAA(TV,MS) 5,54351 5,54351
 24 RSFH(TY,MS) 2,43244 7,29731
 24 RRFHTY,MSI 2,43244 4,86487
 24 BS(TY,MS) 143,19992 211,15123
 24 BATTY,MS 143,19992 140,76748
 ATTRITION TO RED IN AIR-TO-AIR INTERACTION
 24 RATS,RATSI 401,74367 401,74367
 24 RITR,RTI 151,13546 0.00000
 24 VRIBRA(I,VI) .00150
 24 VRAUBI(K,AT) 0.00000 0.00000
 24 VSENG(TV,MS) 40,74064 0.00000
 24 DENUM 15114
 24 RPENG(TV) 0.00000 1.00000
 24 PSKAA(TV,MS) 20,79310 0.00000
 24 BAKAA(TV,MS) 12,23123 0.00000
 24 RSFH(TY,MS) 9,59937 0.00000
 24 RRFHTY,MSI 5,88163 0.00000
 24 BS(TY,MS) 505,4687 0.00000
 24 BATTY,MS 505,4687 505,4687
 BLUE LOSSES TO ENEMY SAMS
 24 RSL(TY,MS) 7,16000 21,11812 0.00000 0.00000 0.00000 0.00000 2,13051 0.00000
 24 RAL(TY,MS) 7,16000 14,07675 0.00000 0.00000 0.00000 0.4370 2,13051 0.00000
 24 RSL(TY,MS) 136,03992 190,03610 0.00000 0.00000 0.00000 83332 19,17462 74,61695
 24 RAL(TY,MS) 136,03992 126,69074 0.00000 0.00000 0.00000 83332 19,17462 74,61695

RED LOSSES TO ENEMY SAMS
 24 RSL(TY,MS) 25,29234 0.00000 0.00000 0.00000 0.00000 0.00000 .00259 0.00000
 24 RAL(TY,MS) 14,87785 0.00000 0.00000 0.00000 0.00000 0.00000 .00259 0.00000
 24 RSL(TY,MS) 480,55453 0.00000 0.00000 0.00000 0.00000 10468 .02332 149,69965
 24 RAL(TY,MS) 282,47913 0.00000 0.00000 0.00000 0.00000 66158 .02332 149,69965

WUz sRoaSr=bl Ue lAsSeS RAUKSs ay Den ,TtAnk

24	BAVUL(KBA)	270.02797	1.24061	19.91091	125.72166
24	ABGRA,ABGRAS,BSHEL,BSHELL	200.00000	200.00000	985.06374	785.06374
24	BAVUL,ABGRAN,RSHELL	416.90115	0.00000	416.90115	0.00000
24	BPOPS(KBA)	243.02517	0.00000	17.91982	113.18949
24	BPOPS(KBA)	0.00000	0.00000	0.00000	0.00000
24	BPOPS(KBA)	443.02517	1.11855	17.91982	113.18949
24	BPOPS(KBA)	0.00000	0.00000	0.00000	0.00000
24	BTOTS,BTOTNS,BTOT	575.21104	0.00000	575.21104	0.00000
24	PRABA(TY),RATP	0.00000	0.00000	0.00000	0.00000
24	IR4EX	40	0.00000	0.00000	0.00000
24	BAKS,BSHELK(ID),BAKNS	0.00000	0.00000	0.00000	0.00000
MED-AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1					
24	ABGRA,ABGRAS,BSHEL,BSHELL	288.56076	0.6286	0.2394	187.39351
24	BAVUL(KBA)	200.00000	0.00000	143.99569	1213.99569
24	ABGRA,ABGRAS,BSHEL,BSHELL	476.01714	0.00000	476.01714	0.00000
24	BAVUL,ABGRAN,RSHELL	259.70449	0.00000	0.00000	168.65416
24	RPOPS(KBA)	0.00000	0.00000	0.00000	0.00000
24	RPOPS(KBA)	459.70469	0.00000	0.00000	168.65416
24	RPOPS(KBA)	0.00000	0.00000	0.00000	0.00000
24	RTOTS,RTOTNS,RTOT	628.41542	0.00000	628.43697	0.00000
24	PRABA(TY),RATP	190.03610	19.17462	209.21072	0.00000
24	VDRS,VDRKS,VDRNS,VDRNS,VDRNS	0.01000	0.00000	0.00000	0.00000
24	TERMS1,TERMS2,TERMN1,TERMN2	0.00288	0.00000	0.00000	0.00000
24	BAKS,BSHELK(ID),BAKNS	18.60123	20.99331	0.00000	0.00000
TOTAL AIRCRAFT DESTRUCTION FOR DAY 24					
24	BTOTS,HTOTNS,BTOT	575.21104	0.00000	575.21104	0.00000
24	XS,XNS	0.00000	0.00000	0.00000	0.00000
24	BAD(KBA, ID),KBA=1+4	32.32396	0.754	2.96954	2.04010
24	RTOTS,RTOTNS,RTOT	628.41542	0.00000	628.43697	0.00000
24	XS,XNS	0.00000	0.00000	0.00000	0.00000
24	RAD(KBA, ID),KBA=1+4	40.76033	0.00759	0.00364	6.53412
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 25					
25	HS(TY,MS)	135.01399	207.52098	0.00000	0.86843
25	HA(TY,MS)	135.01399	135.01399	0.00000	1.24061
25	BANAS	0.00000	0.00000	0.00000	0.00000
25	BANF(TY,MS)	0.00000	0.00000	0.00000	0.00000
25	RS(TY,MS)	467.74617	0.00000	0.00000	0.00000
25	RANAS	274.90051	0.00000	0.00000	0.00000
25	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION					
25	HIRA,IBARI	0	0	0	0
25	HATS,HATS	467.47412	467.47412	0.00000	0.00000
25	BITS,BITS	75.43299	0.00000	0.00000	0.00000
25	VRIUBA(TY)	0.00050	0.00000	0.00000	0.00000
25	VQAMI(KAT)	15.59399	21.39098	0.00000	0.00000
25	DEMOA	0.14591	1.00000	0.00000	0.00000
25	HFBNG(TY)	4.87933	7.31900	0.00000	0.00000
25	BAKAA(TY,MS)	4.87933	4.87933	0.00000	0.00000
25	BSEB(TY,MS)	2.14293	6.42879	0.00000	0.00000
25	BAPB(TY,MS)	2.14293	4.28986	0.00000	0.00000
25	HS(TY,MS)	127.99172	188.77319	0.00000	0.00000
25	HA(TY,MS)	127.99172	125.84479	0.00000	0.00000
25	HATS,BATS	358.31430	358.31430	0.00000	0.00000
RED SORTIES AND AIRCRAFT AT BEGINNING OF DAY 25					
25	HS(TY,MS)	19.91091	75.43299	0.00000	0.86843
25	HA(TY,MS)	19.91091	125.72166	0.00000	1.24061
25	BANAS	0.00000	0.00000	0.00000	0.00000
25	BANF(TY,MS)	0.00000	0.00000	0.00000	0.00000
25	RS(TY,MS)	0.02394	145.90817	0.00000	0.00000
25	RANAS	0.02394	182.38521	0.00000	0.00000
25	RANF(TY,MS)	0.00000	36.47704	0.00000	0.00000
ATTRITION TO RED IN AIR-TO-AIR INTERACTION					
25	HIRA,IBARI	0	0	0	0
25	HATS,HATS	71957	1.82771	0.00000	0.00000
25	BITS,BITS	71957	1.82771	0.00000	0.00000
25	VRIUBA(TY)	0.00000	0.00000	0.00000	0.00000
25	VQAMI(KAT)	0.00000	0.00000	0.00000	0.00000
25	DEMOA	0.00000	0.00000	0.00000	0.00000
25	HFBNG(TY)	0.00000	0.00000	0.00000	0.00000
25	BAKAA(TY,MS)	0.00000	0.00000	0.00000	0.00000
25	BSEB(TY,MS)	0.00000	0.00000	0.00000	0.00000
25	BAPB(TY,MS)	0.00000	0.00000	0.00000	0.00000
25	HS(TY,MS)	18.55930	73.60529	0.00000	0.00000
25	HA(TY,MS)	18.55930	73.60529	0.00000	0.00000

25	KLIS*MSI	145.70717	0.00000	0.00000	0.00000	0.00000	0.00187		
25	VRIDRA(TI)	.00100	.00150	0.00000	0.00000	0.00000			
25	VADURI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000			
25	RSFNG(TY*MS)	36.54473	0.00000	0.00000	0.00000	0.00000			
25	DENOM	.14591	1.00000	0.00000	0.00000	0.00000			
25	HPENG(TY)	0.00000	0.00000	0.00000	0.00000	0.00000			
25	RSKAA(TY*MS)	18.63881	0.00000	0.00000	0.00000	0.00000			1.34151
25	RAKAA(TY*MS)	10.86401	0.00000	0.00000	0.00000	0.00000			1.34151
25	RSFB(TY*MS)	8.95246	0.00000	0.00000	0.00000	0.00000			0.00000
25	RAF(TY*MS)	5.26615	0.00000	0.00000	0.00000	0.00000			0.00000
25	RS(TY*MS)	439.75490	0.00000	0.00000	0.00000	0.00000			144.56666
25	RA(TY*MS)	258.67935	0.00000	0.00000	0.00000	0.00000			144.56666
BLUE LOSSES TO ENEMY SAMs									
25	RSL(TY*MS)	6.39959	18.87732	0.00000	0.00000	0.00000	1.85593	0.00000	0.00000
25	HAL(TY*MS)	6.39959	12.58486	0.00000	0.00000	0.00000	0.4116	1.85593	0.00000
25	HS(TY*MS)	121.59214	169.89987	0.00000	0.00000	0.00000	.78209	16.70337	73.60529
25	HAI(TY*MS)	121.59214	113.26391	0.00000	0.00000	0.00000	.78209	16.70337	73.60529
RED LOSSES TO ENEMY SAMs									
25	RSL(TY*MS)	21.98775	0.00000	0.00000	0.00000	0.00000	.00489	.00224	0.00000
25	RAI(TY*MS)	12.93397	0.00000	0.00000	0.00000	0.00000	.00288	.00224	0.00000
25	RSI(TY*MS)	417.78716	0.00000	0.00000	0.00000	0.00000	.09297	.02019	144.56666
25	RALI(TY*MS)	245.74539	0.00000	0.00000	0.00000	0.00000	.05469	.02019	144.56666

BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1

25	BAVUL(KBA)	241.28484	1.16806	17.33541	123.89395	123.89395			
25	ARQA,ARQRAS,RSHEL,RSHELL	200.00000	200.00000	985.06378	785.06378				
25	BAVUL,ARQRAN,RSHELL	383.68227	0.00000	383.68227	111.50456				
25	RPOPS(KRA)	217.15635	1.05125	15.60187					
25	RPOPS(KBA)	.00000	.00000	.00000	.00000				
25	RPOPS(KBA)	417.15635	1.05125	15.60187	111.50456				
25	RPOPS(KBA)	.00000	.00000	.00000	.00000				
25	BTOTS,BTOTNS,BTOT	545.31404	0.00000	545.31404	0.00000				
25	PRABAITY,PRATP	0.00000	.02019	.02019					
25	IRAEK	40.00000	0.00000	0.00000	0.00000				
25	BANKS,RSHELK(ID),BANKS	0.00000	0.00000	0.00000	0.00000				
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1									
25	RAVUL(KRA)	251.01154	.05586	.02074	181.04370				
25	ARQA,ARQRAS,RSHEL,RSHELL	200.00000	200.00000	1392.90238	1192.90238				
25	BAVUL,ARQRAN,RSHELL	432.11110	0.00000	432.11110					
25	RPOPS(KRA)	225.91038	.05028	0.00000	162.93933				
25	RPOPS(KBA)	.00000	.00000	.01867	.00000				
25	RPOPS(KBA)	425.91038	.05028	0.00000	162.93933				
25	RPOPS(KBA)	.00000	.00000	.01867	.00000				
25	RTOTS,RTOTNS,RTOT	588.89999	.01867	588.91866					
25	PRABAITY,PRATP	169.89987	16.70337	166.59923					
25	VRDRS,VBKRS,VBDRMS,VBKRN	.01000	.40000	.02000	.60000				
25	TERMS1,TERMS2,TERMS1,TERMS2	.00289	.02065	0.00000	0.00000				
25	RAKS,RSHELK(ID),BANKS	15.69516	16.56158	0.00000	0.00000				
TOTAL AIRCRAFT DESTRUCTION FOR DAY 25									
25	BTOTS,BTOTNS,BTOT	545.31404	.06990	545.31404					
25	XS,ANS	0.00000	0.00000	0.00000	1.82771				
25	BAD,KBAD,TD,KBAD,TD*	28.74313	.07255	2.57550					
25	RTOTS,RTOTNS,RTOT	588.89999	.01867	588.91866					
25	XS,ANS	.02665	0.00000						
25	RAD(KRA,TD),KRA,TD*	35.24919	.00666	.00320	5.68412				

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 25

26	BS(TY*MS)	120.64242	180.96363	0.00000	.81764	17.93541	74.33637		
26	RALI(TY*MS)	120.64242	120.64242	0.00000	1.16806	17.93541	123.89395		
26	BANKS	0.00000							
26	IRAEK	0.00000							

24	PRACA(IY),BATP	754,72472	0.0000	124,7787		
25	PRACA(IY),BATP	151,95229	14,55627	166,50851		
26	VDRMS,VKRS,VBORNS,VKRRNS	.0100	0.0000	.0200		
26	TERMS1,TERMS2,TERMIN1,TERMIN2	.00290	0.0000	0.0000		
26	RAKS,RSHELK(ID),RAKNS	13,26647	16,43308	0.0000		
TOTAL AIRCRAFT DESTRUCTION FOR DAY 26						
26	RTOIS,RTUTNS,RTOT	518,74610	0.0000	518,74610		
26	XS,ANS	0.00000	0.00000			
26	BAD(KBA, ID),KBA=1,4	25,58357	.06794	2,23563		1,63279
26	RTOIS,RTOTHS,RTOT	554,75472	.01616	554,77087		
26	XS,ANS	.02391	0.00000			
26	KAD(KRA, ID),KRA=1,4	30,54533	.00586	.00279		4,95931
BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 27						
27	RS(IY,MS)	107,85063	161,77595	0.00000	.77008	15,09978
27	HA(IY,MS)	107,85063	107,85063	0.00000	1,10012	15,09978
27	BANAS	0.00000	0.00000	0.00000	.33003	0.00000
27	RANF(IY,MS)	0.00000	0.00000	0.00000	0.00000	48,90446
27	RS(IY,MS)	355,49549	0.00000	0.00000	.08272	.01795
27	HA(IY,MS)	209,11499	0.00000	0.00000	.04866	.01795
27	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000
27	RANF(IY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000
ATTRITION TO BLUE IN AIR-TO-AIR INTERACTION						
27	IBIRA,IBARI	0	0			
27	RATS,RATSI	355,59617	355,59617			
27	RITS,BITSI	73,35670	0.00000			73,35670
27	VRDBA(IYI)	.00050	.00100			122,26116
27	VRAUBI(KAT)	0.00000	0.00000			48,90446
27	RSENG(IY,MS)	12,15982	18,00990	0.00000	0.08080	137,39342
27	DENOM	.13739	18,23973	0.00000	.08682	171,74178
27	BPENG(IY)	0.00000	1.00000			34,34836
27	SKAA(IY,MS)	3,40072	5,70109	0.00000	.02714	.53213
27	BAKAA(IY,MS)	3,80072	3,80072	0.00000	.02714	.53213
27	BSFB(IY,MS)	1,67182	5,01546	0.00000	.01194	4,6813
27	BAFB(IY,MS)	1,67182	3,34364	0.00000	.01194	4,6813
27	RS(IY,MS)	102,37809	151,05441	0.00000	.73101	14,09953
27	HA(IY,MS)	102,37809	100,70627	0.00000	.73101	14,09953
ATTRITION TO RED IN AIR-TO-AIR INTERACTION						
27	BATS,BATSI	285,49645	285,49645			
27	RITS,RITSI	137,39342	0.00000			1,49511
27	VRDBA(IYI)	.00100	.00150			1,49511
27	VRAUBI(KAT)	0.00000	0.00000			0.00000
27	RSENG(IY,MS)	29,09363	0.00000	0.00000	0.00000	0.00000
27	DENOM	.13739	0.00000			0.00000
27	BPENG(IY)	0.00000	1.00000			0.00000
27	SKAA(IY,MS)	14,85305	0.00000	0.00000	.00346	1,04262
27	BAKAA(IY,MS)	8,73709	0.00000	0.00000	.00203	1,04262
27	BSFB(IY,MS)	7,12029	0.00000	0.00000	.00166	0.00000
27	BAFB(IY,MS)	4,18411	0.00000	0.00000	.00097	0.00000
27	RS(IY,MS)	333,52215	0.00000	0.00000	.07761	0.00000
27	HA(IY,MS)	196,18950	0.00000	0.00000	.04565	0.00000
BLUE LOSSES TO ENEMY SAMS						
27	BSL(IY,MS)	5,11890	15,10594	0.00000	.03655	1,40995
27	BAL(IY,MS)	5,11890	10,07063	0.00000	.02655	1,40995
27	BS(IY,MS)	97,25919	135,95347	0.00000	.69446	12,68957
27	BA(IY,MS)	97,25919	90,63564	0.00000	.69446	12,68957
RED LOSSES TO ENEMY SAMS						
27	BSL(IY,MS)	16,67411	0.00000	0.00000	.00388	0.00000
27	BAL(IY,MS)	9,80948	0.00000	0.00000	.00228	0.00000
27	BS(IY,MS)				.00168	0.00000
27	BA(IY,MS)				.00168	0.00000

ATTN	DESCRIPTION	127.51294	125.24023	0.00000	.07041	17.53114	71.10960
ATTENTION TO RED IN AIR-TO-AIR INTERACTION							
28	BAL(TY,MS)	348.77107	348.77107				
28	BATS,BATS1	133.92261					
28	RITS,RITS1	0.00000					
28	VBIORA(TY)	0.00150					
28	VADR1(KAT)	0.00000					
28	RSENG(TY,MS)	25.87289	0.00000	0.00000	.00616	.00129	
28	DECOM	.13392					
28	RPENG(TY)	0.00000	1.00000				
28	RSKAA(TY,MS)	13.21398	0.00000	0.00000	.00315	.00066	1.20441
28	RAKAA(TY,MS)	7.77293	0.00000	0.00000	.00185	.00066	1.20441
28	RSEB(TY,MS)	6.52946	0.00000	0.00000	.00151	.00038	0.00000
28	RAF8(TY,MS)	3.72321	0.00000	0.00000	.00089	.00038	0.00000
28	RS(TY,MS)	290.87346	0.00000	0.00000	.06928	.01449	132.71820
28	RAL(TY,MS)	171.10203	0.00000	0.00000	.04075	.01449	132.71820
BLUE LOSSES TO ENEMY SAMS							
28	BAL(TY,MS)	6.37565	18.83108	0.00000	.03453	1.23312	0.00000
28	BAL(TY,MS)	6.37565	12.55405	0.00000	.03453	1.23312	0.00000
28	BRTY,MS)	121.13730	169.87472	0.00000	.65608	11.09806	71.18960
28	BAL(TY,MS)	121.13730	112.98048	0.00000	.65608	11.09806	71.18960
MED LOSSES TO ENEMY SAMS							
28	RSL(TY,MS)	14.54367	0.00000	0.00000	.00346	.00145	0.00000
28	RAL(TY,MS)	8.55510	0.00000	0.00000	.00204	.00145	0.00000
28	RS(TY,MS)	276.52978	0.00000	0.00000	.06581	.01304	132.71820
28	RAL(TY,MS)	182.54693	0.00000	0.00000	.03871	.01304	132.71820
BLUE AIRBASE=BLUE LOSSES CAUSED BY RED ATTACK MODE 1							
28	BAVUL(KBA)	240.04101	.97769	11.48554	119.51202		
28	ARGRA,ARGRAS	200.00000	200.00000	985.06378	785.06378		
28	BAVUL,ARGRAN,RSHELL	372.01627	0.00000	372.01627			
28	RPOPS(KBA)	216.03691	.87492	10.33699	107.56082		
28	RPOPS(KBA)	0.0000	0.0000	0.0000	0.0000		
28	RPOPS(KBA)	416.03691	.87492	10.33699	107.56082		
28	RPOPS(KBA)	0.0000	0.0000	0.0000	0.0000		
28	BTOTS,RTOTS,BTOT	534.81464	0.00000	534.81464			
28	PRABA(TY),RAIP	40	.01304	.01304			
28	IB4EX	0	0.00000	0.00000			
28	BAKS,RSHELK(ID),BAKNS	0	0.00000	0.00000			
MED AIRBASE=RED LOSSES CAUSED BY BLUE ATTACK MODE 1							
28	BAVUL(KBA)	166.27014	.03460	.01342	166.19885		
28	ARGRA,ARGRAS,RSHEL,RSHELL	200.00000	200.00000	1343.34172	1143.34172		
28	BAVUL,ARGRAN,RSHELL	332.50859	0.00000	332.50859			
28	RPOPS(KBA)	149.64313	.03564	0.00000	149.57896		
28	RPOPS(KBA)	0.0000	0.0000	.01208	0.0000		
28	RPOPS(KBA)	349.64313	.03564	0.00000	149.57896		
28	RPOPS(KBA)	0.0000	0.0000	.01208	0.0000		
28	BTOTS,RTOTS,BTOT	499.25773	0.0000	499.25773			
28	PRABA(TY),RAIP	169.47972	11.09806	180.57774			
28	VEDRSYBKRS,YBDRMS,YBKRRNS	.01000	.49000	0.00000	.60000		
28	TERMS1,TERMS2,TERMIN1,TERMIN2	.00292	.02609	0.00000	0.00000		
28	BAKS,RSHELK(ID),BAKNS	13.02364	17.52120	0.00000	0.00000		
TOTAL AIRCRAFT DESTRUCTION FOR DAY 28							
28	BTOTS,RTOTS,BTOT	534.81464	0.00000	534.81464			
28	XS,XNS	0.00000	0.00000	0.00000			
28	BAD(KBA,ID),KBA=1,4	27.86927	.05874	1.67216	1.29403		
28	RTOTS,RTOTNS,RTOT	499.25773	0.00000	499.25773			
28	XS,XNS	.02609	0.00000	0.00000			
28	BAD(KBA, ID),KBA=1,4	25.44882	.00482	.00211	5.10633		

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 28

29	BA(TY,MS)	120.02051	120.02051	0.00000	.97769	11.48554	119.51202
29	BANAS	0.00000	0.00000	0.00000	.29331	0.00000	47.80481
29	BANF(TY,MS)	267.15390	0.00000	0.00000	.06574	.01342	129.83755
29	BAND SORTIES AND AIRCRAFT AT BEGINNING OF DAY	157.14935	0.00000	0.00000	.03867	.01342	152.29693
29	RS(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	32.45939
29	RAMAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
ATTRIBUTION TO BLUE IN AIR-TO-AIR INTERACTION							
29	IBYKABIBARI	267.23305	267.23305	0.00000	0.00000	1.21304	1.13455
29	RAT, RATS	71.87021	0.00000	0.00000	0.00000	0.00000	1.13455
29	RITS, RITSI	0.0050	0.00100	0.00000	0.00000	0.00000	0.00000
29	VRUBA(TY)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	VRUBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	BSENG(TY,MS)	12.67593	19.01390	0.00000	0.00000	0.00000	0.00000
29	DEMOM	.12984	1.00000	0.00000	0.00000	0.00000	0.00000
29	BPENG(TY)	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
29	BSKAA(TY,MS)	3.95124	5.92987	0.00000	.02253	.37812	1.13455
29	BAKAA(TY,MS)	3.95124	3.95124	0.00000	.02253	.37812	1.13455
29	BSEF(TY,MS)	1.74494	5.23861	0.00000	.00995	.33397	0.00000
29	BAFB(TY,MS)	1.74494	3.48987	0.00000	.00995	.33397	0.00000
29	RS(TY,MS)	114.32433	168.86908	0.00000	.65190	10.77345	70.57267
29	BA(TY,MS)	114.32433	112.57939	0.00000	.65190	10.77345	70.57267
ATTRIBUTION TO RED IN AIR-TO-AIR INTERACTION							
29	RAT, RATS	312.22119	312.22119	0.00000	0.00000	0.00000	0.00000
29	RITS, RITSI	12.83755	0.00000	0.00000	0.00000	0.00000	0.00000
29	VRUBA(TY)	.00100	.00150	0.00000	0.00000	0.00000	0.00000
29	VRUBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
29	RSENG(TY,MS)	22.68396	0.00000	0.00000	0.00000	0.00000	0.00000
29	DEMOM	.12984	1.00000	0.00000	0.00000	0.00000	0.00000
29	BPENG(TY)	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
29	RSKAA(TY,MS)	11.59003	0.00000	0.00000	.00285	.00058	1.06404
29	BAKAA(TY,MS)	6.81767	0.00000	0.00000	.00168	.00058	1.06404
29	RSEF(TY,MS)	5.54696	0.00000	0.00000	.00136	.00033	0.00000
29	BAFB(TY,MS)	3.26292	0.00000	0.00000	.00080	.00033	0.00000
29	RS(TY,MS)	250.01690	0.00000	0.00000	.06152	.01250	128.77350
29	BA(TY,MS)	147.06877	0.00000	0.00000	.03619	.01250	128.77350
BLUE LOSSES TO ENEMY SAMS							
29	BSL(TY,MS)	5.71622	16.88691	0.00000	.03260	1.07735	0.00000
29	BAL(TY,MS)	5.71622	11.25794	0.00000	.03260	1.07735	0.00000
29	BS(TY,MS)	108.60811	151.98218	0.00000	.61931	9.69611	70.57267
29	BA(TY,MS)	108.60811	101.32145	0.00000	.61931	9.69611	70.57267
RED LOSSES TO ENEMY SAMS							
29	RSL(TY,MS)	12.50885	0.00000	0.00000	.00308	.00125	0.00000
29	RAL(TY,MS)	7.35344	0.00000	0.00000	.00181	.00125	0.00000
29	RS(TY,MS)	237.51696	0.00000	0.00000	.05845	.01125	128.77350
29	RA(TY,MS)	139.71533	0.00000	0.00000	.03838	.01125	128.77350
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE							
29	RAVUL(KRA)	215.16437	.92256	10.03008	118.37748	0.00000	0.00000
29	AROMA, ARUMAS, BSHEL, RSHEL1	200.00000	200.00000	985.06378	785.06378	0.00000	0.00000
29	RAVULT, ARGRAN, RSHEL1	344.49449	0.00000	344.49449	0.00000	0.00000	0.00000
29	BPOPS(KBA)	193.44793	.83931	9.02707	106.53973	0.00000	0.00000
29	BPOPNS(KBA)	0.00000	.80000	9.00000	.80000	0.00000	0.00000
29	BPOPNS(KBA)	393.64793	.83031	9.02707	106.53973	0.00000	0.00000
29	BPOPNS(KBA)	0.00000	.00000	0.00000	.00000	0.00000	0.00000
29	RTOTS, RTOT, S+RTOT	510.04504	.00000	510.04504	.00000	0.00000	0.00000
29	PRABA(TY, RATP)	0.00000	.01125	.01125	0.00000	0.00000	0.00000
29	TR4EK	40	0.00000	0.00000	0.00000	0.00000	0.00000
29	BAKS, BSHELK(ID), BAKMS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE							
29	RAVUL(KRA)	142.97825	.03318	.01158	161.23289	0.00000	0.00000
29	AROMA, ARUMAS, RSHEL, RSHEL1	200.00000	200.00000	1325.82051	1125.82051	0.00000	0.00000
29	RAVULT, ARGRAN, RSHEL1	304.24632	0.00000	304.24632	0.00000	0.00000	0.00000
29	BPOPS(KBA)	128.68092	.03167	0.00000	145.10960	0.00000	0.00000

29	MPDPS(KRA)	0.0000	0.0000	0.0000	145.1060	
29	RDP(SKRA)	0.0000	0.0000	0.0000	0.0000	
29	RQDPS(KHA)	0.0000	0.0000	0.0000	0.0000	
29	RTOTS+RTOTNS+RTOT	473.82169	0.0000	0.0000	473.82169	
29	PRAB(ATY)+BATP	151.69218	0.0000	0.0000	151.67828	
29	VRDPS+VRKRS+VIDDPS+VBKRS	0.0000	0.0000	0.0000	0.0000	
29	TERMS1+TERMS2+TERMIN1+TERMIN2	0.0293	0.0000	0.0000	0.0000	
29	RAKS+RSHEK(ID)+RAKNS	11.12477	0.0000	0.0000	15.56434	
TOTAL AIRCRAFT DESTRUCTION FOR MAY 29						
29	BTOTS+BTOTNS+BTOT	510.04504	0.0000	0.0000	510.04504	
29	XS+XNS	0.0000	0.0000	0.0000	0.0000	
29	BAD(KRA, ID)+KBA=1+4	28.87664	0.0000	0.0000	1.13455	
29	RTOTS+RTOTNS+RTOT	473.82169	0.0000	0.0000	473.82169	
29	XS+XNS	0.0000	0.0000	0.0000	0.0000	
29	RAD(KRA, ID)+KRA=1+4	21.88913	0.0000	0.0000	4.47104	

BLUE SORTIES AND AIRCRAFT AT BEGINNING OF DAY 30

30	BS(TY,MS)	161.37328	0.00000	0.00000	0.64579	10.03008	71.02649
30	BA(TY,MS)	107.58219	0.00000	0.00000	0.92256	10.03008	118.37748
30	BANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	RANF(TY,MS)	0.00000	0.00000	0.00000	0.27677	0.00000	47.35099
30	RS(TY,MS)	229.94408	0.00000	0.00000	0.05855	0.01158	126.26071
30	RA(TY,MS)	135.26122	0.00000	0.00000	0.03444	0.01158	157.82589
30	RANAS	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	RANF(TY,MS)	0.00000	0.00000	0.00000	0.00000	0.00000	31.56518
30	IRIRA, IRARI	0	0	0	0	0	0
30	BATS, BATSI	230.01421	230.01421	0.00000	0.00000	0.00000	0.00000
30	BITTS, BITSI	71.02649	0.00000	0.00000	0.00000	0.00000	0.00000
30	VRUBA(TY)	0.0050	0.0050	0.00000	0.00000	0.00000	0.00000
30	VRAUBI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	RSENG(TY,MS)	11.22451	16.84429	0.00000	0.00000	1.04695	0.00000
30	DENOM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	RSENG(TY)	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
30	SKAA(TY,MS)	3.49871	5.24807	0.00000	0.00000	0.00000	0.00000
30	BAKAA(TY,MS)	3.49871	3.49871	0.00000	0.00000	0.00000	0.00000
30	RSEB(TY,MS)	1.54616	4.63848	0.00000	0.00000	0.00000	0.00000
30	RAF(TY,MS)	1.54616	3.09232	0.00000	0.00000	0.00000	0.00000
30	BS(TY,MS)	102.53731	151.48673	0.00000	0.00000	0.00000	0.00000
30	BA(TY,MS)	102.53731	100.99115	0.00000	0.00000	0.00000	0.00000

ATTRITION TO RED IN AIR-TO-AIR INTERACTION

30	BATS, BATSI	279.63134	279.63134	0.00000	0.00000	0.00000	0.00000
30	RITS, RITSI	126.26071	0.00000	0.00000	0.00000	0.00000	0.00000
30	VRIDRA(TY)	0.00100	0.00100	0.00000	0.00000	0.00000	0.00000
30	VBAURI(KAT)	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	RSENG(TY,MS)	19.83838	0.00000	0.00000	0.00000	0.00000	0.00000
30	DENOM	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
30	RSENG(TY)	0.00000	1.00000	0.00000	0.00000	0.00000	0.00000
30	SKAA(TY,MS)	10.13974	0.00000	0.00000	0.00000	0.00000	0.00000
30	BAKAA(TY,MS)	5.96455	0.00000	0.00000	0.00000	0.00000	0.00000
30	RSEB(TY,MS)	4.84932	0.00000	0.00000	0.00000	0.00000	0.00000
30	RAF(TY,MS)	2.85294	0.00000	0.00000	0.00000	0.00000	0.00000
30	RS(TY,MS)	214.95502	0.00000	0.00000	0.00000	0.00000	0.00000
30	RA(TY,MS)	126.44813	0.00000	0.00000	0.00000	0.00000	0.00000

BLUE LOSSES TO ENEMY SAMs

30	BSLITY(MS)	5.12687	15.14867	0.00000	0.00000	0.00000	0.00000
30	BALITY(MS)	5.12687	10.09912	0.00000	0.00000	0.00000	0.00000
30	BSLITY(MS)	97.41045	136.33506	0.00000	0.00000	0.00000	0.00000
30	BALITY(MS)	97.41045	90.89204	0.00000	0.00000	0.00000	0.00000

DEFINITION OF PAFM CASE

30	RSL(TY,MS)	10.74775	0.00000	0.00000	.00274	.00108	0.00000
30	RAL(TY,MS)	6.72221	0.00000	0.00000	.00161	.00108	0.00000
30	RS(TY,MS)	204.20727	0.00000	0.00000	.05199	.00970	125.31913
30	RA(TY,MS)	120.12192	0.00000	0.00000	.03059	.00970	125.31913
BLUE AIRBASE--BLUE LOSSES CAUSED BY RED ATTACK MODE 1							
30	BAVUL(KRA)	192.9496	.87079	8.76233	117.38525		
30	ARQA,ARGRAS,RSHEL,RSHEL	200.00000	200.00000	985.06374	785.06378		
30	BAVUL,ARGRAN,RSHEL	319.95932	0.00000	319.95932			
30	RPOPS(KRA)	173.64687	.78371	7.88610	105.64672		
30	RPOPS(KBA)	373.80884	.98370	7.88870	105.64892		
30	RPOPS(KRA)	487.96339	.00000	487.96339	.00000		
30	RTOTS,RTOTMS,RTOT	0.00000	.00970	.00970			
30	IR4EX	40	0.00000	0.00000			
30	BAKS,RSHEL(ID),BAKNS	0.00000	0.00000	0.00000			
RED AIRBASE--RED LOSSES CAUSED BY BLUE ATTACK MODE 1							
30	BAVUL(KRA)	122.97446	.03131	.01000	156.88430		
30	ARQA,ARGRAS,RSHEL,RSHEL	200.00000	200.00000	1310.25617	1110.25617		
30	BAVUL,ARGRAN,RSHEL	279.89008	0.00000	279.89008			
30	RPOPS(KRA)	110.67702	.02818	0.00000	141.19587		
30	RPOPS(KKA)	0.00000	.00000	.00900	.00000		
30	RPOPS(KBA)	310.67702	.02918	0.00000	141.19587		
30	RPOPS(KRA)	451.96107	.00900	.00900	.00000		
30	RTOTS,RTOTMS,RTOT	0.00000	.00900	.00900			
30	PRABA(TY),BATP	136.33806	R.47403	144.31204			
30	VDRS,VBKRS,VBDRMS,VBKNS	.01000	.40000	.02000	.60000		
30	TERMS1,TERMS2,TERMN1,TERMN2	.00294	.02113	0.00000	0.00000		
30	RAKS,RSHEL(ID),RAKNS	9.54789	13.64173	0.00000	0.00000		
TOTAL AIRCRAFT DESTRUCTION FOR DAY 30							
30	RTOTS,RTOTMS,RTOT	487.96339	.00000	487.96339			
30	XS,XNS	0.00000	0.00000	0.00000			
30	BAD(KBA,ID),KBA=1,4	22.22341	.05178	1.26775	.99223		
30	RTOTS,RTOTMS,RTOT	451.90107	.00900	451.91007			
30	XS,XNS	.02113	0.00000	0.00000			
30	RAD(KRA,ID),KRA=1,4	18.85083	.00372	.00159	3.92441		

C. RESULTS OVER COURSE OF WAR

	BLUE		RED	
	CAS	ABA	CAS	ABA
1	-0.0000	-0.0000	-0.0000	-0.0000
2	0.0000	0.0000	0.0000	0.0000
3	.5000	.5000	1.0000	0.0000

BUA(1)	24.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	6.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	6.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BUA(2)	12.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BUA(3)	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BUI(1)	24.000	23.619	23.434	23.252	23.068	22.886	22.706	22.528	22.352	22.176	22.000	21.824	21.648	21.472
	28.130	27.870	27.591	27.312	27.033	26.754	26.475	26.196	25.917	25.638	25.359	25.080	24.801	24.522
	31.820	31.565	31.310	31.055	30.800	30.545	30.290	30.035	29.780	29.525	29.270	29.015	28.760	28.505
BUI(2)	12.000	11.904	11.717	11.526	11.334	11.143	10.951	10.760	10.568	10.377	10.185	10.000	9.815	9.630
	11.088	10.986	10.888	10.793	10.702	10.614	10.530	10.445	10.362	10.279	10.196	10.113	10.030	9.947
	13.173	13.067	12.963	12.859	12.756	12.654	12.553	12.452	12.353	12.256	12.159	12.063	11.968	11.873
BUI(3)	10.000	9.920	9.841	9.764	9.688	9.612	9.536	9.461	9.387	9.313	9.239	9.165	9.091	9.017
	9.240	9.155	9.073	8.994	8.918	8.845	8.775	8.704	8.635	8.566	8.497	8.428	8.359	8.290
	11.473	11.381	11.290	11.200	11.110	11.022	10.933	10.846	10.759	10.675	10.586	10.501	10.416	10.331
BUD(1)	.192	.189	.186	.181	.177	.172	.168	.164	.160	.156	.152	.148	.144	.140
	.260	.250	.240	.231	.222	.215	.212	.210	.208	.206	.204	.202	.200	.198
	.255	.253	.251	.248	.247	.245	.243	.242	.240	.238	.236	.234	.232	.230
BUD(2)	.096	.094	.093	.091	.092	.091	.090	.089	.088	.087	.086	.085	.084	.083
	.102	.098	.095	.091	.088	.085	.084	.084	.084	.084	.084	.084	.084	.084
	.105	.105	.104	.103	.102	.101	.100	.099	.099	.099	.099	.099	.099	.099
BUD(3)	.080	.079	.077	.076	.077	.076	.075	.074	.074	.073	.073	.073	.073	.073
	.085	.082	.079	.076	.073	.071	.070	.070	.069	.069	.069	.069	.069	.069
	.092	.091	.090	.089	.089	.088	.087	.087	.086	.086	.086	.086	.086	.086
BGF	60.000	59.520	59.049	58.584	58.131	57.671	57.216	56.766	56.320	55.879	55.442	55.006	54.571	54.136
	55.442	54.930	54.438	53.966	53.511	53.072	52.648	52.227	51.809	51.394	50.981	50.570	50.160	49.750
	68.839	68.288	67.742	67.200	66.663	66.129	65.600	65.075	64.557	64.048	63.540	63.033	62.527	62.022
BAA(1)	1500.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BAA(2)	300.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BAA(3)	200.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BAA(4)	200.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
BAI(1)	1500.000	1440.539	1412.824	1401.553	1474.492	1473.024	1472.167	1471.667	1471.482	1471.374	1471.312	1471.280	1471.250	1471.220
	1471.310	1465.170	1459.154	1453.262	1447.491	1441.841	1436.310	1430.915	1425.651	1420.510	1415.480	1410.460	1405.450	1400.450
	626.050	579.158	538.742	502.552	470.028	441.285	415.701	395.910	380.041	367.110	357.120	349.130	342.140	336.150
BAI(2)	300.000	152.812	72.042	32.104	20.084	14.722	10.789	7.905	5.792	4.243	3.110	2.280	1.680	1.250

BAI(3)	200.000	1.585	4.898	1.890	4.940	2.509	4.443	2.180	2.049	1.018	1.794	1.688
	34.846	30.267	26.308	22.880	19.911	17.335	15.100	13.158	11.486	10.030	8.810	7.822
BAI(4)	200.000	187.251	180.951	178.268	177.755	177.529	177.397	177.320	177.289	177.269	177.271	177.271
	177.260	172.038	167.011	162.194	157.600	153.242	149.132	145.279	141.688	138.310	136.310	136.310
	135.323	132.547	130.031	127.762	125.722	123.894	122.261	120.806	119.512	118.377	117.377	116.377
BAD(1)	59.461	27.715	11.271	2.061	1.467	.857	.500	.185	.109	.064	.064	.064
	156.140	134.017	115.872	100.930	88.349	77.492	68.095	61.496	59.547	52.323	52.323	52.323
	46.292	41.016	36.390	32.324	28.743	25.584	22.791	20.869	19.877	18.877	18.877	18.877
BAD(2)	147.188	80.770	39.938	12.020	5.361	3.933	2.884	2.113	1.549	1.135	1.135	1.135
	.220	.198	.181	.166	.153	.141	.131	.119	.111	.102	.102	.102
	.095	.089	.083	.078	.073	.068	.064	.059	.055	.052	.052	.052
BAD(3)	100.626	53.630	25.830	7.801	4.823	2.905	1.744	1.052	.632	.380	.380	.380
	.083	.070	.059	.050	.043	.037	.031	.027	.023	.020	.020	.020
	4.579	3.959	3.427	2.970	2.575	2.236	1.942	1.672	1.455	1.268	1.268	1.268
BAD(4)	12.749	6.299	2.683	.613	.226	.132	.077	.031	.018	.011	.011	.011
	5.223	5.027	4.817	4.593	4.358	4.110	3.853	3.591	3.318	3.047	3.047	3.047
	2.776	2.516	2.270	2.040	1.828	1.633	1.455	1.294	1.135	.992	.992	.992
SHEL(1)	1000.000	990.992	987.000	985.566	985.351	985.201	985.114	985.064	985.064	985.064	985.064	985.064
	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064
	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064	985.064
SMELK	9.000	3.992	1.434	.215	.150	.087	.050	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
BAF	38.366	17.671	7.792	5.043	1.090	.794	.585	.428	.314	.230	.230	.230
	55.953	49.318	43.560	38.524	34.127	30.222	26.807	22.208	18.216	14.592	11.829	9.829
	19.252	15.360	12.274	10.983	10.083	9.830	9.830	9.830	9.830	9.830	9.830	9.830
BF	98.366	77.191	66.841	63.627	59.221	54.470	51.801	57.194	56.634	56.109	56.109	56.109
	111.395	104.249	97.998	92.489	87.614	83.294	79.455	76.434	73.510	70.987	70.987	70.987
	88.101	85.864	83.102	80.429	78.039	75.817	73.740	71.808	70.000	68.317	66.667	65.044
MUA(1)	80.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
MUA(2)	40.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
MUA(3)	10.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
MUI(1)	80.000	78.882	77.779	76.692	75.620	74.564	73.521	72.494	71.481	70.482	70.482	70.482
	69.496	68.452	67.567	66.623	65.692	64.774	63.868	62.976	62.096	61.228	61.228	61.228
	40.092	38.973	37.869	36.781	35.708	34.650	33.606	32.578	31.563	30.563	30.563	30.563
MUI(2)	40.000	39.441	38.890	38.346	37.810	37.287	36.761	36.247	35.740	35.241	35.241	35.241
	34.748	34.263	33.784	33.312	32.846	32.387	31.934	31.488	31.048	30.614	30.614	30.614
	40.046	39.587	39.135	38.690	38.254	37.825	37.403	36.988	36.578	36.172	36.172	36.172
MUI(3)	10.000	9.860	9.722	9.587	9.453	9.320	9.190	9.062	8.935	8.810	8.810	8.810
	8.687	8.566	8.446	8.324	8.211	8.097	7.984	7.872	7.762	7.653	7.653	7.653
	9.519	9.386	9.254	9.125	8.997	8.872	8.748	8.625	8.505	8.386	8.386	8.386

KUD(1)	1.118	1.102	1.087	1.072	1.057	1.042	1.028	1.013	.999	.985
	.971	.958	.944	.931	.918	.905	.893	.880	.868	.854
	1.119	1.104	1.088	1.073	1.058	1.043	1.029	1.014	1.000	.986
KUD(2)	.559	.551	.544	.536	.528	.521	.514	.507	.500	.493
	.486	.479	.472	.466	.459	.453	.446	.440	.434	.428
	.560	.552	.544	.537	.529	.522	.514	.507	.500	.493
RUD(3)	.140	.138	.136	.134	.132	.130	.128	.127	.125	.123
	.121	.120	.118	.116	.115	.113	.112	.110	.108	.106
	.133	.131	.129	.128	.126	.124	.122	.121	.119	.117
MUF	40.000	39.441	38.890	38.346	37.810	37.287	36.761	36.247	35.740	35.241
	34.748	34.263	33.784	33.312	32.846	32.384	31.934	31.488	31.048	30.614
	38.074	37.542	37.017	36.500	35.990	35.487	34.991	34.502	34.020	33.544
KAA(1)	2900.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
KAA(2)	300.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
KAA(3)	400.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
KAA(4)	500.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000
KAI(1)	2900.000	2434.489	2403.725	2390.141	2379.838	2377.760	2376.491	2375.716	2375.241	2375.173
	2375.127	2088.840	1723.426	1501.706	1323.673	1173.784	1046.727	936.437	840.372	756.636
	681.798	617.810	562.912	515.670	474.910	439.660	409.115	382.598	357.149	335.261
KAI(2)	300.000	162.819	74.188	28.138	8.954	5.334	3.173	1.885	1.119	.664
	.394	.329	.279	.241	.211	.185	.163	.144	.127	.112
	.099	.087	.077	.069	.061	.055	.049	.043	.039	.034
KAI(3)	400.000	205.548	90.240	33.309	10.342	5.978	3.450	1.989	1.146	.660
	.380	.329	.282	.241	.202	.162	.122	.083	.055	.048
	.042	.037	.032	.028	.024	.021	.018	.016	.013	.012
KAI(4)	500.000	484.033	476.486	473.133	470.746	470.262	469.965	469.782	469.669	469.646
	469.630	411.405	367.030	334.150	308.809	287.546	269.600	254.370	239.683	227.141
	215.313	205.177	196.455	188.919	182.385	176.701	171.742	167.403	162.297	157.626
RAD(1)	65.511	30.764	13.584	10.303	2.078	1.268	.775	.475	.280	.166
	366.188	285.514	221.720	178.033	149.887	127.058	108.355	98.000	83.736	74.838
	63.987	56.898	47.242	40.760	35.249	30.545	26.517	23.449	21.888	18.851
RAD(2)	137.181	88.630	46.050	19.185	3.618	2.163	1.289	.766	.455	.270
	.064	.050	.036	.030	.026	.022	.019	.017	.015	.013
	.011	.010	.009	.008	.007	.006	.005	.005	.004	.004
RAD(3)	194.452	115.308	56.931	22.967	4.364	2.528	1.461	.843	.486	.280
	.131	.087	.057	.032	.011	.010	.009	.008	.007	.006
	.005	.005	.004	.004	.003	.003	.002	.002	.002	.002
RAD(4)	15.967	7.547	3.353	2.388	.483	.297	.183	.113	.023	.016
	58.225	44.375	32.881	25.341	21.262	17.946	15.230	14.687	12.541	11.629
	10.135	8.722	7.536	6.534	5.684	4.959	4.339	3.811	3.471	3.1925
SHEL	2000.000	1990.866	1985.921	1983.593	1982.245	1981.971	1981.806	1981.706	1981.646	1981.646
	1981.444	1979.210	1977.244	1975.524	1974.144	1973.064	1972.244	1971.646	1971.244	1970.906

	1995.302	1995.303	1995.304	1995.305	1995.306	1995.307	1995.308	1995.309	1995.310	1995.311	1995.312	1995.313	1995.314	1995.315	1995.316	1995.317	1995.318	1995.319	1995.320
MSHELK	9.134	4.945	1.348	.273	.165	.100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	49.427	58.973	61.470	53.468	46.623	40.735	35.748	34.902	35.748	40.735	46.623	53.468	61.470	58.973	49.427	40.735	35.748	34.902	35.748
	30.654	26.975	23.778	20.993	18.562	16.433	14.566	13.842	17.521	18.562	20.993	23.778	26.975	30.654	26.975	23.778	20.993	18.562	17.521
MAF	25.689	10.666	3.798	.659	.491	.173	.061	.036	.102	.491	.659	.798	10.666	25.689	.102	.061	.036	.061	.102
	206.345	171.019	143.525	122.225	105.171	90.855	78.760	59.217	68.482	105.171	122.225	143.525	171.019	206.345	68.482	59.217	51.333	59.217	68.482
	44.312	38.333	33.223	28.442	25.073	21.424	19.017	12.257	16.585	25.073	28.442	33.223	38.333	44.312	16.585	14.256	12.257	14.256	16.585
Hf	65.689	50.107	42.687	39.005	38.301	37.573	36.933	35.801	36.349	38.301	39.005	42.687	50.107	65.689	36.349	35.801	35.277	35.801	36.349
	241.093	205.292	177.308	155.537	138.017	123.242	110.694	89.946	99.970	138.017	155.537	177.308	205.292	241.093	99.970	90.265	89.946	90.265	99.970
	82.386	75.875	70.241	65.342	61.063	57.311	54.007	45.801	51.087	61.063	65.342	70.241	75.875	82.386	51.087	48.275	45.801	48.275	51.087
FEBA	1.990	4.638	7.692	11.792	14.531	17.430	20.470	30.404	23.645	14.531	7.692	1.990	4.638	1.990	23.645	26.955	30.404	23.645	23.645
	18.761	9.254	2.305	-2.601	-5.806	-7.724	-9.297	-11.080	-10.331	-5.806	-2.601	2.305	9.254	18.761	-10.331	-11.080	-11.080	-11.080	-10.331
	-10.756	-10.250	-9.517	-8.563	-7.392	-6.010	-4.424	-4.617	-2.218	-7.392	-8.563	-9.517	-10.250	-10.756	-2.218	.809	4.617	-4.617	-2.218
CHF	98.366	175.557	242.398	306.026	365.246	423.716	481.517	595.345	538.711	365.246	242.398	98.366	175.557	98.366	538.711	595.345	651.453	538.711	538.711
	762.848	867.977	965.095	1057.585	1145.199	1228.493	1307.948	1453.507	1387.392	1145.199	965.095	762.848	867.977	762.848	1307.948	1453.507	1554.373	1387.392	1387.392
	1042.495	1127.978	1811.081	1897.009	1970.949	2048.061	2123.491	2276.289	2500.779	1970.949	1897.009	1042.495	1127.978	1042.495	2123.491	2276.289	2350.106	2276.289	2276.289
CMF	65.689	115.796	159.483	197.488	235.789	273.362	310.295	382.446	346.645	235.789	159.483	65.689	115.796	65.689	346.645	382.446	417.723	346.645	346.645
	658.816	864.097	1041.406	1196.943	1334.959	1458.201	1568.895	1668.864	1668.864	1334.959	1041.406	658.816	864.097	658.816	1568.895	1759.129	1849.075	1668.864	1668.864
	1931.462	2007.337	2077.578	2142.919	2203.983	2261.594	2315.301	2414.664	2366.388	2203.983	2077.578	1931.462	2007.337	1931.462	2315.301	2414.664	2460.466	2366.388	2366.388
CMF	38.366	56.037	63.829	68.873	69.963	70.761	71.346	72.318	71.774	69.963	63.829	38.366	56.037	38.366	71.774	72.088	72.318	71.774	71.774
	128.271	177.599	221.149	256.673	293.776	323.998	350.805	402.529	378.013	293.776	221.149	128.271	177.599	128.271	350.805	402.529	423.861	378.013	378.013
	443.083	460.278	475.639	486.367	501.644	512.627	522.457	545.623	534.669	501.644	475.639	443.083	460.278	443.083	522.457	545.623	555.451	534.669	534.669
CMF	25.689	36.355	40.153	40.811	41.302	41.593	41.766	41.965	41.868	41.302	40.153	25.689	36.355	25.689	41.868	41.929	41.965	41.868	41.868
	248.310	419.329	562.854	685.079	790.250	881.104	959.804	1047.563	1028.346	790.250	562.854	248.310	419.329	248.310	959.804	1047.563	1138.895	1028.346	1028.346
	1183.207	1221.541	1254.764	1283.606	1308.679	1330.504	1349.520	1380.361	1366.105	1308.679	1254.764	1183.207	1221.541	1183.207	1349.520	1380.361	1392.618	1366.105	1366.105