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# DMSi

Summary Listing

Test Measures List  
Test Conditions List  
Test Resources List

21 June 1987

Prepared For:

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## INTRODUCTION

### 1. Purpose

This catalog provides the results of a survey of 89 test reports dating from 1973 through 1986 that were prepared by the Operational Test and Evaluation Agency (OTEA). It is designed to provide the user with a listing of test measures, test conditions, and test resources used in those reports measures. This summary listing:

- a) Allows the user to see what measures, resources, and conditions have been used in the past
- b) Provides a basis for standardization of the use of test measures

### 2. Format

Each section of the summary listing (one for measures, one for conditions, and one for resources) is divided into two parts. The first part is a short, summarized listing of the entries in the relevant list, broken down by category, and identified with the number of occurrences within the database. The second part is a complete printout of all the entries in the database in question.

## DEFINITIONS

### Test Measure

A quantitative description of an observed phenomenon/performance. Usually refers to some directly quantifiable dimension such as time, velocity, count, etc.

### Test Factor

An independent variable that acts upon the phenomenon/performance specified as a Test Measure.

### Test Condition

A subset of a Test Factor that specifies the different states of a given independent variable identified as a Test Factor.

### Test Resource

An object, person, time, or function that is used in test.

### Test Measures List

| <u>Category Code</u> | <u>Category Title</u>           | <u>Definition</u>   |
|----------------------|---------------------------------|---|
| COM                  | Communications                  | Related to transmittal/receipt of information, speed and efficiency of processing data, organizational efficiency and effectiveness.                          |
| FIR                  | Firing                          | Target detection, acquisition and destruction. Also subsumes the related measure, Intelligence, and as such includes identification and evaluation of target. |
| HUM                  | Human Factors                   | Conditions affecting crew performance and safety.   |
| ILS                  | Integrated Logistic Support     | Supplies and life cycle support required for operation<br>General support requirements (non-maintenance).   |
| IOP                  | Interoperability                | Interfacing and linking of electronic components.   |
| MIS                  | Miscellaneous                   | Measures not included under other categories.   |
| MOB                  | Mobility                        | Tactical and Operational speed and maneuverability.   |
| RAM                  | Reliability and Maintainability | Maintenance support for system, as well as system reliability and general availability.   |

|     |                                 |   |
|-----|---------------------------------|---|
| TRN | Training                        | Training and doctrine, for both performance, and acquisition of skills.                     |
| V/S | Vulnerability/<br>Survivability | System vulnerability in tactical environment, as well as survivability given threat forces. |

**Test Conditions List**

| <u>Category</u> | <u>Category</u>          | <u>Definition</u>   |
|-----------------|--------------------------|---|
| <u>Code</u>     | <u>of Condition</u>      |   |
| CON             | Factors Held<br>Constant | Test Factors were not varied during the test, but rather were held constant at some fixed value.  |
| TAC             | Tactically Varied        | Test Factors were varied according tactically determined circumstances during the test.   |
| SYS             | Systematically<br>Varied | Test Factors were varied according to criteria established for testing prior to the beginning of test, and not explicitly linked to any tactical environment. |
| UNC             | Uncontrolled             | Test Factors varied during testing, but in an uncontrolled manner, and could not, or were not compensated for in the test.                                    |

**Test Resources List**

| <u>Category</u> | <u>Category</u>               | <u>Definition</u>  |
|-----------------|-------------------------------|--|
| <u>Code</u>     | <u>of Resource</u>            |  |
| AMM             | Ammunition                    | Rounds used for testing, both live and inert.  |
| ARE             | Areas                         | Facilities, ranges, and courses used for testing.  |
| DPR             | Data Processing               | Computer Facilities for the storage, retrieval, and analysis of data gathered from a test. |
| EQP<br>systems  | Equipment to<br>be Tested     | Candidate systems, or other that were to be included in the test.                          |
| G&A             | General and<br>Administration | Logistics end items, supply operations, etc.   |
| INS             | Instrumentation               | Equipment for measuring and storing data gathered during test.                             |

|     |                            |  |
|-----|----------------------------|--|
| MNT | Maintenance                | Personnel dedicated to general support of the test.                                      |
| OPP | Opposing Forces            | Forces assigned to compete against Player Forces, usually in simulated combat exercises. |
| PLY | Player Forces              | Forces assigned to participate in test.  |
| SSP | Scientific Support         | Technical support for the execution of the test.   |
| TDP | Test Directorate Personnel | Personnel from the Army's testing hierarchy assigned to perform test.                    |
| TGT | Targets                    | Targets used for testing.  |
| TIM | Time                       | Time spent during testing.   |
| TNG | Training                   | Resources assigned specifically the purpose of training.                                 |
| TRP | Transportation             | Resources assigned to provide transport for testing purposes.                            |

## METHODOLOGIES

Extraction of the Test Measures from the 89 test reports was done at Data Level 4, that is to say, at a "finding of fact" level characterized by percentages, proportions, sums, lists of causes, etc. Measures were identified as those results of a test that produced numerical outputs, and that were the actual output of a test, not simply a finding of fact. Definitions were drawn from the test report itself, where possible, or produced using the test report as a guide. Given the highly context sensitive nature of many of the measures, definitions often were developed using the environment of the measure as a guide. The 89 test reports were selected by OTEA as representing a useful cross section of the agency's activities from 1973 through early 1986.

Measures were extracted from each of the 89 test reports through textual search using the Data Level 4 criterion as the basis for extraction, and added to the Test Measures Database for purposes of storage, retrieval, and analysis. They have been categorized by the category of measure (see Definitions for descriptions of categories) and summarized by a simple numerical count of each measure's number or repetitions in the database.



Summary of Test Measures List

| Category Code | Test Measure                           | Count |
|---------------|--|-------|
| COM           | Error Rate                             | 9     |
| COM           | Errors                                 | 3     |
| COM           | Estimated Position Error               | 1     |
| COM           | Input Time                             | 1     |
| COM           | Jamming Margin                         | 1     |
| COM           | Length of Delay                        | 3     |
| COM           | Location Error                         | 1     |
| COM           | Mean Spherical Error                   | 1     |
| COM           | Measured Beacon Strength               | 1     |
| COM           | Message Preparation Time               | 1     |
| COM           | Message Quality                        | 1     |
| COM           | Miles Aircraft Not Tracked             | 1     |
| COM           | Number of Actions                      | 1     |
| COM           | Number of Assignments                  | 1     |
| COM           | Number of Calls to Contact             | 1     |
| COM           | Number of Data Passes                  | 1     |
| COM           | Number of Data Passes Analyzed         | 1     |
| COM           | Number of Edits per Message            | 1     |
| COM           | Number of Fixes                        | 1     |
| COM           | Number of Integrations Attempted       | 1     |
| COM           | Number of Integrations Successful      | 1     |
| COM           | Number of Lockouts                     | 1     |
| COM           | Number of Messages Attempted           | 6     |
| COM           | Number of Messages Completed           | 3     |
| COM           | Number of Messages Not Acknowledged    | 1     |
| COM           | Number of Messages Not Received        | 2     |
| COM           | Number of Messages Received            | 2     |
| COM           | Number of Messages Rejected            | 1     |
| COM           | Number of Missions Assigned            | 1     |
| COM           | Number of Missions Fired               | 1     |
| COM           | Number of Missions Planned             | 1     |
| COM           | Number of Missions Processed           | 1     |
| COM           | Number of Ports in Use                 | 1     |
| COM           | Number of Problems                     | 1     |
| COM           | Number of Satellites Available         | 1     |
| COM           | Number of Startpoints                  | 1     |
| COM           | Number of Stations in Net              | 1     |
| COM           | Number of Stations Responding          | 1     |
| COM           | Number of Successful Hopsets           | 1     |
| COM           | Number of Targets Processed            | 1     |
| COM           | Number of Unsuccessful Hopsets         | 1     |
| COM           | Number of Waypoints                    | 1     |
| COM           | Percent Dual Designations              | 1     |
| COM           | Percent Lines Lost in Edit             | 1     |
| COM           | Percent Messages Correctly Received    | 1     |
| COM           | Percent Messages Correctly Transmitted | 1     |
| COM           | Percent Messages Received              | 2     |
| COM           | Percent Messages Rejected              | 1     |
| COM           | Percent Messages With Errors           | 1     |
| COM           | Percent of Messages Degraded           | 1     |
| COM           | Percent of Messages Delayed            | 1     |
| COM           | Percent of Messages Jammed             | 1     |
| COM           | Percent Successful Transmissions       | 1     |
| COM           | Percent Targets Tracked                | 1     |
| COM           | Percent Targets Updated                | 1     |

| Category Code | Test Measure                            | Count |
|---------------|---|-------|
| COM           | Receiver to Transmitter Range           | 1     |
| COM           | Retransmission Rate                     | 1     |
| COM           | Safety Time for Initial/Subsequent Data | 1     |
| COM           | Self Location Error                     | 1     |
| COM           | Time Aircraft Not Tracked               | 1     |
| COM           | Time Aircraft Tracked                   | 1     |
| COM           | Time to Activate                        | 2     |
| COM           | Time to Adjust                          | 1     |
| COM           | Time to Call Fire                       | 1     |
| COM           | Time to Complete Action                 | 16    |
| COM           | Time to Compose Message                 | 1     |
| COM           | Time to Counter Jamming                 | 1     |
| COM           | Time to Display Message                 | 1     |
| COM           | Time to Edit Message                    | 1     |
| COM           | Time to Establish Communications Link   | 1     |
| COM           | Time to First Fix                       | 1     |
| COM           | Time to Generate Database               | 1     |
| COM           | Time to Hopset                          | 1     |
| COM           | Time to Initialize                      | 7     |
| COM           | Time to Lay to                          | 2     |
| COM           | Time to Load Individual Station         | 1     |
| COM           | Time to Load Net                        | 1     |
| COM           | Time to Plot Mission                    | 1     |
| COM           | Time to Process and Transmit            | 23    |
| COM           | Time to Register                        | 1     |
| COM           | Time to Review                          | 1     |
| COM           | Time to Stabilize                       | 1     |
| COM           | Transmission Rate                       | 3     |
|               | Subtotal for COM is 153                 |       |
| FIR           | Acquired Locations                      | 1     |
| FIR           | Acquisition Time                        | 1     |
| FIR           | Angle of Attack                         | 1     |
| FIR           | Base Plate Forward Displacement         | 1     |
| FIR           | Base Plate Vertical Displacement        | 1     |
| FIR           | Boresight Deviation                     | 1     |
| FIR           | Circular Error Probable                 | 1     |
| FIR           | Cumulative Acquisition Frequency        | 1     |
| FIR           | Detection Range                         | 4     |
| FIR           | Dispersion                              | 1     |
| FIR           | Elevation Above the Mask                | 1     |
| FIR           | Engagement Range                        | 3     |
| FIR           | Errors                                  | 13    |
| FIR           | Firing Time                             | 1     |
| FIR           | Forward Observation/Target Ratio        | 1     |
| FIR           | Height of Burst                         | 1     |
| FIR           | Hit Ratio                               | 1     |
| FIR           | Hits per Burst                          | 1     |
| FIR           | Identification Range                    | 1     |
| FIR           | Identification Time                     | 1     |
| FIR           | Initiation Range                        | 1     |
| FIR           | Interception Range                      | 1     |
| FIR           | Intervisibility                         | 1     |
| FIR           | Intervisibility Loss                    | 1     |

| Category Code | Test Measure                              | Count |
|---------------|---|-------|
| FIR           | Kill Probability                          | 2     |
| FIR           | Mean Radial Error                         | 26    |
| FIR           | Mean Response Time                        | 18    |
| FIR           | Mean Rounds Required                      | 2     |
| FIR           | Mean Time Required                        | 5     |
| FIR           | Mean Time to Hit                          | 3     |
| FIR           | Missile Time of Flight                    | 1     |
| FIR           | Mission Time                              | 1     |
| FIR           | Missions Attempted                        | 1     |
| FIR           | Missions Completed                        | 1     |
| FIR           | Muzzle Velocity                           | 1     |
| FIR           | Number Engaged                            | 1     |
| FIR           | Number Identified                         | 1     |
| FIR           | Number of Alerts                          | 1     |
| FIR           | Number of Attempts to Engage              | 1     |
| FIR           | Number of Boresight Attempts              | 1     |
| FIR           | Number of Breaklocks                      | 1     |
| FIR           | Number of Bursts                          | 1     |
| FIR           | Number of Correct Engagements             | 1     |
| FIR           | Number of Correct Identifications         | 1     |
| FIR           | Number of Detections                      | 2     |
| FIR           | Number of Direct Attacks                  | 1     |
| FIR           | Number of Duds                            | 1     |
| FIR           | Number of Engagements                     | 8     |
| FIR           | Number of False Targets                   | 1     |
| FIR           | Number of Firing Locations                | 2     |
| FIR           | Number of Firing Opportunities            | 1     |
| FIR           | Number of Firings                         | 2     |
| FIR           | Number of Hits                            | 20    |
| FIR           | Number of Impact Predictions              | 1     |
| FIR           | Number of Interceptions                   | 1     |
| FIR           | Number of Interrogations                  | 1     |
| FIR           | Number of Kills                           | 1     |
| FIR           | Number of Launches                        | 1     |
| FIR           | Number of Misses                          | 10    |
| FIR           | Number of Missions                        | 2     |
| FIR           | Number of Positions Located               | 1     |
| FIR           | Number of Reloads                         | 1     |
| FIR           | Number of Repetitions                     | 1     |
| FIR           | Number of Rounds Detonated                | 1     |
| FIR           | Number of Rounds Fired                    | 28    |
| FIR           | Number of Rounds Fired/Rounds Available   | 1     |
| FIR           | Number of Rounds for Registration         | 1     |
| FIR           | Number of Rounds Observed                 | 1     |
| FIR           | Number of Rounds on Target                | 1     |
| FIR           | Number of Rounds to Achieve Target Effect | 1     |
| FIR           | Number of Rounds to Adjust                | 2     |
| FIR           | Number of Rounds to Reseat Baseplate      | 1     |
| FIR           | Number of Rounds to Rezero                | 1     |
| FIR           | Number of Rounds to Seat Baseplate        | 1     |
| FIR           | Number of Rounds to Zero                  | 1     |
| FIR           | Number of Submunitions Flown              | 1     |
| FIR           | Number of Submunitions Recovered          | 1     |
| FIR           | Number of Successful Boresights           | 1     |
| FIR           | Number of Successful Engagements          | 1     |

| Category Code | Test Measure                                    | Count |
|---------------|---|-------|
| FIR           | Number of Targets                               | 10    |
| FIR           | Number of Targets Assigned                      | 1     |
| FIR           | Number of Targets Detected                      | 1     |
| FIR           | Number of Targets Engaged                       | 5     |
| FIR           | Number of Targets Identified                    | 2     |
| FIR           | Number of Targets Killed                        | 1     |
| FIR           | Number of Targets Presented                     | 2     |
| FIR           | Number of Track Initiations                     | 1     |
| FIR           | Number of Tracks Active                         | 1     |
| FIR           | Number of Trigger Pulls                         | 1     |
| FIR           | Offset Range                                    | 3     |
| FIR           | Penetrations Per Hit                            | 1     |
| FIR           | Percent Correct Engagements                     | 1     |
| FIR           | Percent Correct Weapon Assignment               | 1     |
| FIR           | Percent Detected                                | 4     |
| FIR           | Percent Effectively Engaged                     | 7     |
| FIR           | Percent Engaged                                 | 4     |
| FIR           | Percent Errors                                  | 1     |
| FIR           | Percent Firing Positions Located                | 2     |
| FIR           | Percent First Fire                              | 1     |
| FIR           | Percent First Round Hits                        | 2     |
| FIR           | Percent Hits                                    | 26    |
| FIR           | Percent Identified                              | 7     |
| FIR           | Percent Improper Weapon Assignment              | 1     |
| FIR           | Percent Kills                                   | 1     |
| FIR           | Percent Multiple Launches                       | 1     |
| FIR           | Percent of Direct Attacks                       | 1     |
| FIR           | Percent of Target Covered By Secondary Armament | 1     |
| FIR           | Percent of Targets Located                      | 1     |
| FIR           | Percent Propellant Charge Type                  | 1     |
| FIR           | Percent Second Round Hits                       | 1     |
| FIR           | Percent Targets Engaged                         | 1     |
| FIR           | Percent Targets Identified                      | 1     |
| FIR           | Percent Targets Recognized                      | 1     |
| FIR           | Percentage of Duds                              | 1     |
| FIR           | Percentage of Duds Recovered                    | 1     |
| FIR           | Probability of Hit                              | 3     |
| FIR           | Probability of Recognition                      | 1     |
| FIR           | Probability of Success                          | 1     |
| FIR           | Proportion of Coverage                          | 1     |
| FIR           | Range   | 9     |
| FIR           | Range From Defended Point at Ordnance Release   | 1     |
| FIR           | Range to Defended Point at Assign               | 1     |
| FIR           | Ranging Error                                   | 1     |
| FIR           | Rate of Fire                                    | 6     |
| FIR           | Terrain Mask Angle                              | 1     |
| FIR           | Time Between Alert Attacks                      | 1     |
| FIR           | Time Between Subsequent Rounds                  | 2     |
| FIR           | Time for Six Rounds                             | 1     |
| FIR           | Time to Acquire Target                          | 4     |
| FIR           | Time to Alternate Firing Position               | 1     |
| FIR           | Time to Arm Weapon                              | 1     |
| FIR           | Time to Boresight                               | 3     |
| FIR           | Time to Change Barrels                          | 1     |
| FIR           | Time to Complete Firing Sequence                | 3     |

| Category Code | Test Measure                               | Count |
|---------------|--|-------|
| FIR           | Time to Complete Mission                   | 1     |
| FIR           | Time to Defilade                           | 1     |
| FIR           | Time to Designate                          | 1     |
| FIR           | Time to Detect Target                      | 9     |
| FIR           | Time to Enable                             | 1     |
| FIR           | Time to Engage                             | 19    |
| FIR           | Time to Erect Launcher                     | 1     |
| FIR           | Time to Fire                               | 4     |
| FIR           | Time to Fire for Effect (FFE)              | 3     |
| FIR           | Time to First Hit                          | 4     |
| FIR           | Time to First Round                        | 5     |
| FIR           | Time to Identification                     | 1     |
| FIR           | Time to Install Weapon                     | 1     |
| FIR           | Time to Load Weapon                        | 1     |
| FIR           | Time to Lock-on                            | 1     |
| FIR           | Time to Perform Action                     | 9     |
| FIR           | Time to Predict Location                   | 1     |
| FIR           | Time to Ready                              | 1     |
| FIR           | Time to Reload Weapon                      | 9     |
| FIR           | Time to Remove Weapon                      | 1     |
| FIR           | Time to Self-Locate                        | 1     |
| FIR           | Time to Set Guns                           | 1     |
| FIR           | Time to Shift Fire                         | 1     |
| FIR           | Time to Subsequent Rounds                  | 1     |
| FIR           | Time to Unload                             | 1     |
| FIR           | Total Fire Opportunities                   | 1     |
| FIR           | Total First-Round Engagements              | 1     |
| FIR           | Total Mission Time                         | 2     |
| FIR           | Tracking Time                              | 1     |
| FIR           | Trial Time                                 | 1     |
| FIR           | Weapon Flight Time                         | 1     |
|               | Subtotal for FIR is 438                    |       |
| HUM           | Action Rating                              | 1     |
| HUM           | Ambient Noise Level                        | 1     |
| HUM           | Crew Size                                  | 1     |
| HUM           | Egress Time                                | 1     |
| HUM           | Horizontal Field of Vision                 | 1     |
| HUM           | Ingress Time                               | 6     |
| HUM           | Toxic Gas Accumulation (parts per million) | 1     |
| HUM           | Vertical Sweep Angle                       | 1     |
|               | Subtotal for HUM is 18                     |       |
| ILS           | Average Pounds per Refuel                  | 1     |
| ILS           | Battery Usage                              | 3     |
| ILS           | Coolant Usage                              | 2     |
| ILS           | Fuel Consumption                           | 12    |
| ILS           | Idling Time                                | 3     |
| ILS           | Mileage                                    | 10    |
| ILS           | Miles per Trip                             | 1     |
| ILS           | Net Change in Mileage                      | 1     |
| ILS           | Oil Consumption                            | 1     |
| ILS           | Operating Range                            | 1     |

| Category Code          | Test measure                          | Count |
|------------------------|---------------------------------------|-------|
| ILS                    | Pump Rate                             | 1     |
| ILS                    | Refuel Ratio                          | 1     |
| ILS                    | Resupply Time                         | 1     |
| ILS                    | Rounds Stored Per Minute              | 1     |
| ILS                    | Time to Change Batteries              | 1     |
| ILS                    | Time to Load                          | 3     |
| ILS                    | Time to Prepare for Refuelling        | 1     |
| ILS                    | Time to Rearm                         | 2     |
| ILS                    | Time to Refuel                        | 6     |
| ILS                    | Time to Reload                        | 1     |
| ILS                    | Time to Secure From Refuelling        | 1     |
| ILS                    | Time to Unload                        | 3     |
| Subtotal for ILS is 57 |                                       |       |
| IOP                    | Integration Attempts                  | 1     |
| IOP                    | Integration Attempts Causing Delay    | 1     |
| IOP                    | Integration Attempts Rejected         | 1     |
| IOP                    | Mean Time to Interconnect             | 1     |
| IOP                    | Number of Alerts                      | 1     |
| IOP                    | Percent Successful Integration Checks | 2     |
| IOP                    | Time to Complete Integration          | 3     |
| IOP                    | Time to Synchronize                   | 1     |
| Subtotal for IOP is 11 |                                       |       |
| MIS                    | Bank Cubic Yards/Hour                 | 2     |
| MIS                    | Gallons/Minute Pumped                 | 1     |
| MIS                    | Loose Cubic Yards/Hour                | 1     |
| MIS                    | Number of Items Used                  | 1     |
| MIS                    | Productivity                          | 1     |
| MIS                    | Square Yards/Hour                     | 1     |
| MIS                    | Total Gallons Pumped                  | 1     |
| MIS                    | Total Pumping Time                    | 1     |
| MIS                    | Volume Capacity                       | 1     |
| Subtotal for MIS is 10 |                                       |       |
| MOB                    | Acceleration                          | 1     |
| MOB                    | Airlifts                              | 1     |
| MOB                    | Braking Distance                      | 1     |
| MOB                    | Distance of Course                    | 1     |
| MOB                    | Distance Travelled                    | 20    |
| MOB                    | Freeboard                             | 1     |
| MOB                    | Hookup Time                           | 1     |
| MOB                    | Maximum Speed                         | 1     |
| MOB                    | Miles Towed                           | 4     |
| MOB                    | Miles Transported                     | 1     |
| MOB                    | Movement Rate                         | 13    |
| MOB                    | Movement Time                         | 4     |
| MOB                    | Number of Airdrops                    | 1     |
| MOB                    | Number of Displacements               | 2     |
| MOB                    | Number of Emplacements                | 1     |
| MOB                    | Number of Movements                   | 1     |
| MOB                    | Number of Personnel to Load           | 1     |

| Category Code | Test Measure                                    | Count |
|---------------|---|-------|
| MOB           | Number of Personnel to Unload                   | 1     |
| MOB           | Number of Resupply Missions                     | 1     |
| MOB           | Number of Rigging Personnel                     | 1     |
| MOB           | Number of Slings                                | 1     |
| MOB           | Swimming Speed                                  | 1     |
| MOB           | Time From Move to Fire                          | 1     |
| MOB           | Time Required for Evacuation                    | 1     |
| MOB           | Time Required to Evacuate Position After Firing | 1     |
| MOB           | Time to Adjust Ground Level Laser Designator    | 1     |
| MOB           | Time to Assemble Ground Level Laser Designator  | 1     |
| MOB           | Time to Complete Course                         | 6     |
| MOB           | Time to Derig                                   | 11    |
| MOB           | Time to Disestablish Observation Post           | 1     |
| MOB           | Time to Displace                                | 16    |
| MOB           | Time to Emplace                                 | 16    |
| MOB           | Time to Establish Observation Post              | 1     |
| MOB           | Time to Ford                                    | 2     |
| MOB           | Time to Load                                    | 8     |
| MOB           | Time to Mate Gripstock                          | 1     |
| MOB           | Time to Navigate                                | 1     |
| MOB           | Time to Negotiate Obstacles                     | 1     |
| MOB           | Time to Offload                                 | 2     |
| MOB           | Time to Prepare for Action                      | 1     |
| MOB           | Time to Prepare for Towing                      | 1     |
| MOB           | Time to Remove Gripstock                        | 1     |
| MOB           | Time to Rig                                     | 16    |
| MOB           | Time to Setup                                   | 2     |
| MOB           | Time to Start Engine                            | 1     |
| MOB           | Time to Tear Down                               | 2     |
| MOB           | Time to Unload                                  | 6     |
| MOB           | Total Travel Time                               | 1     |
| MOB           | Towing Impairments By Type                      | 1     |
| MOB           | Turning Radius                                  | 1     |
| MOB           | Unhook Time                                     | 1     |
| MOB           | Vehicle Handling Rating                         | 1     |
|               | Subtotal for MOB is 166                         |       |
| RAM           | Achieved Availability                           | 47    |
| RAM           | Active Maintenance Time                         | 18    |
| RAM           | Distance Travelled                              | 3     |
| RAM           | Downtime  | 37    |
| RAM           | Engine Hours                                    | 1     |
| RAM           | Failure Rate                                    | 1     |
| RAM           | Flight Time                                     | 1     |
| RAM           | Frequency of Alignment                          | 1     |
| RAM           | Frequency of Peaking                            | 1     |
| RAM           | Inherent Availability                           | 14    |
| RAM           | Level of Maintenance                            | 3     |
| RAM           | Maintenance Burden                              | 10    |
| RAM           | Maintenance Error Rate                          | 2     |
| RAM           | Maintenance Ratio                               | 46    |
| RAM           | Mean Cycles Between Failures(MCBF)              | 2     |
| RAM           | Mean Miles Between Failures(MMBF)               | 27    |
| RAM           | Mean Preventative Maintenance Time              | 2     |



| Category Code | Test Measure                                 | Count |
|---------------|--|-------|
| RAM           | Mean Rounds Between Failures(MRBF)           | 25    |
| RAM           | Mean Time Between Failures(MTBF)             | 51    |
| RAM           | Mean Time Between Maintenance Actions(MTBMA) | 13    |
| RAM           | Mean Time to Repair(MTTR)                    | 59    |
| RAM           | Mean Trigger Pulls Between Incident          | 1     |
| RAM           | Median Time to Peak Power                    | 1     |
| RAM           | Mission Length                               | 4     |
| RAM           | Mission Reliability                          | 9     |
| RAM           | Missions Required                            | 2     |
| RAM           | Number of Accidents                          | 1     |
| RAM           | Number of Deferred Maintenance Items         | 1     |
| RAM           | Number of Different Tools Used               | 1     |
| RAM           | Number of Disconnects                        | 1     |
| RAM           | Number of Failures                           | 67    |
| RAM           | Number of Installations                      | 1     |
| RAM           | Number of Maintenance Actions                | 16    |
| RAM           | Number of Maintenance Man/Hours              | 1     |
| RAM           | Number of Missions                           | 3     |
| RAM           | Number of Missions Aborted                   | 3     |
| RAM           | Number of Missions Attempted                 | 6     |
| RAM           | Number of Missions Completed                 | 4     |
| RAM           | Number of Missions Delayed/Degraded          | 1     |
| RAM           | Number of Missions Flown                     | 3     |
| RAM           | Number of Missions Not Completed             | 1     |
| RAM           | Number of Operator/Maintenance Errors        | 1     |
| RAM           | Number of Operators                          | 1     |
| RAM           | Number of Special Tools                      | 1     |
| RAM           | Number of Successful Missions                | 3     |
| RAM           | Number of Systems Down                       | 1     |
| RAM           | Number of Times Tools Used                   | 1     |
| RAM           | Number of Tools Used                         | 1     |
| RAM           | Number of Unsuccessful Missions              | 1     |
| RAM           | Number of Vehicles                           | 1     |
| RAM           | Operating Time                               | 56    |
| RAM           | Operational Availability                     | 44    |
| RAM           | Percent Engaged Without Failure              | 1     |
| RAM           | Percent Missions Completed                   | 3     |
| RAM           | Percent Moves Without Failure                | 1     |
| RAM           | Percent Operational Failures                 | 1     |
| RAM           | Percent Reliability Failures                 | 1     |
| RAM           | Percent Successful Missions                  | 3     |
| RAM           | Percent Systems Down                         | 1     |
| RAM           | Preflight Time                               | 1     |
| RAM           | Probability of Mean Time Between Failures    | 1     |
| RAM           | Probability of Mission Success               | 2     |
| RAM           | Probability of Reliable Round                | 2     |
| RAM           | System Reliability                           | 11    |
| RAM           | Time to Assemble                             | 9     |
| RAM           | Time to Boresight                            | 1     |
| RAM           | Time to Change Configuration                 | 1     |
| RAM           | Time to Complete Project                     | 1     |
| RAM           | Time to Detect Fault                         | 2     |
| RAM           | Time to Disassemble                          | 6     |
| RAM           | Time to Dismount Weapon                      | 1     |
| RAM           | Time to Install                              | 2     |

| Category Code           | Test Measure  | Count |
|-------------------------|---|-------|
| RAM                     | Time to Mount Weapon  | 1     |
| RAM                     | Time to Perform Maintenance Action                                    | 6     |
| RAM                     | Time to Remove  | 2     |
| RAM                     | Time to Restore System  | 1     |
| RAM                     | Time to Shift to Second Target  | 1     |
| RAM                     | Time to Zero  | 1     |
| RAM                     | Total Flight Hours  | 1     |
| RAM                     | Total Number of Cycles  | 1     |
| RAM                     | Total Repair Hours  | 1     |
| RAM                     | Uptime  | 1     |
| RAM                     | Warm-up Time  | 1     |
| Subtotal for RAM is 672 |   |       |
| TRN                     | Average Time Performing Action  | 1     |
| TRN                     | Contractor Training Time  | 1     |
| TRN                     | Hours of Instruction  | 1     |
| TRN                     | Marksmanship Scores   | 2     |
| TRN                     | Number of Errors Performing Action                                    | 2     |
| TRN                     | Number of Personnel Trained   | 1     |
| TRN                     | Percent Classroom/Firing Instruction During Contractor Training       | 1     |
| TRN                     | Performance Examination Score   | 1     |
| TRN                     | Posttest Score  | 1     |
| TRN                     | Pretest Score   | 1     |
| TRN                     | Time to Train gunners   | 1     |
| Subtotal for TRN is 12  |   |       |
| V/S                     | Detection Range   | 1     |
| V/S                     | Distance to Observe Flash   | 1     |
| V/S                     | Distance to Observe Rocket Ignition                                   | 1     |
| V/S                     | Distance to Observe Smoke   | 1     |
| V/S                     | Exposure Time   | 1     |
| V/S                     | Frequency of Initial Detection  | 1     |
| V/S                     | Jammed Transmissions Requiring Retransmission                         | 1     |
| V/S                     | Jammed Transmissions Requiring Alternate Means of Communication       | 1     |
| V/S                     | Jamming Missions With No Effect                                       | 1     |
| V/S                     | Laser On Time   | 1     |
| V/S                     | Number of Detections  | 14    |
| V/S                     | Number of False Detections  | 1     |
| V/S                     | Number of Jamming Attempts  | 1     |
| V/S                     | Number of Monitored Transmissions per Monitor Period                  | 1     |
| V/S                     | Number of Nondetections   | 1     |
| V/S                     | Number of Recoveries From Jamming                                     | 1     |
| V/S                     | Number of Successful Jamming Attempts                                 | 1     |
| V/S                     | Number of Successful Jammings   | 1     |
| V/S                     | Number of Transmissions Needed to Identify Source                     | 1     |
| V/S                     | Percent Exposure Time   | 1     |
| V/S                     | Percent Firings Detected  | 1     |
| V/S                     | Percent of EW Missions Causing Erroneous Action                       | 1     |
| V/S                     | Percent of Successful Jamming Missions That Required Use of Alternate | 1     |
| V/S                     | Percent Recoveries From Jamming                                       | 1     |
| V/S                     | Receiver to Jammer Range  | 1     |
| V/S                     | Signature   | 1     |
| V/S                     | Tanks in Threat Force with Line of Sight                              | 1     |

| Category Code | Test Measure  | Count |
|---------------|---|-------|
| V/S           | Time in Detected State                                      | 3     |
| V/S           | Time Required to Locate and Identify Source of Transmission | 1     |
| V/S           | Time to Camouflage  | 1     |
| V/S           | Time to Detect Firing                                       | 1     |

Subtotal for V/S is 52

Total Test Measure Count 1589

General Listing of Test Measures List

| Category Code | Test Measure                        | Test Employed In      |
|---------------|-------------------------------------|-----------------------|
| COM           | Error Rate                          | TACFIRE OT II         |
|               | Error Rate                          | TACFIRE OT II         |
|               | Error Rate                          | TACFIRE OT II         |
|               | Error Rate                          | TACFIRE OT II         |
|               | Error Rate                          | TACFIRE OT II         |
|               | Error Rate                          | TACFIRE OT II         |
|               | Error Rate                          | SINCGARS-V LOT        |
|               | Error Rate                          | SST IOTE              |
|               | Error Rate                          | Tactical C3 System    |
|               | Error Rate                          | SCOTT CA              |
|               | Errors                              | TACFIRE OT II         |
|               | Errors                              | TACFIRE OT II         |
|               | Errors                              | TACFIRE OT II         |
|               | Estimated Position Error            | NAVSTAR 6PS OT I      |
|               | Input Time                          | SST IOTE              |
|               | Jamming Margin                      | JTIDS JT              |
|               | Length of Delay                     | TACFIRE OT II         |
|               | Length of Delay                     | TACFIRE OT II         |
|               | Length of Delay                     | CL6P OT II            |
|               | Location Error                      | OSCS III IOTE         |
|               | Mean Spherical Error                | NAVSTAR 6PS AGE OT II |
|               | Measured Beacon Strength            | OSCS III IOTE         |
|               | Message Preparation Time            | SST IOTE              |
|               | Message Quality                     | MM OT IIa             |
|               | Miles Aircraft Not Tracked          | AN/TSQ-73 OT III      |
|               | Number of Actions                   | TACFIRE OT II         |
|               | Number of Assignments               | AN/TSQ-73 OT III      |
|               | Number of Calls to Contact          | SINCGARS-V CA         |
|               | Number of Data Passes               | AN/TSQ-73 OT III      |
|               | Number of Data Passes Analyzed      | AN/TSQ-73 OT III      |
|               | Number of Edits per Message         | SST IOTE              |
|               | Number of Fixes                     | NAVSTAR 6PS OT I      |
|               | Number of Integrations Attempted    | AN/TSQ-73 OT III      |
|               | Number of Integrations Successful   | AN/TSQ-73 OT III      |
|               | Number of Lockouts                  | SINCGARS-V CA         |
|               | Number of Messages Attempted        | AN/TPQ-37 OT I        |
|               | Number of Messages Attempted        | PLRS OT II            |
|               | Number of Messages Attempted        | SCOTT CA              |
|               | Number of Messages Attempted        | SINCGARS-V CA         |
|               | Number of Messages Attempted        | AN/TYC-39 FGE         |
|               | Number of Messages Attempted        | TACTAM OT IIa         |
|               | Number of Messages Completed        | SINCGARS-V LOT        |
|               | Number of Messages Completed        | SINCGARS-V MOT        |
|               | Number of Messages Completed        | AN/TPQ-37 OT I        |
|               | Number of Messages Completed        | SCOTT CA              |
|               | Number of Messages Completed        | SINCGARS-V CA         |
|               | Number of Messages Not Acknowledged | AN/TPQ-37 OT I        |
|               | Number of Messages Not Received     | AN/TPQ-37 OT I        |
|               | Number of Messages Not Received     | AN/TPQ-37 OT I        |
|               | Number of Messages Received         | AN/TPQ-37 OT I        |
|               | Number of Messages Received         | PLRS OT II            |
|               | Number of Messages Rejected         | AN/TYC-39 FGE         |
|               | Number of Missions Assigned         | MLRS OT III           |
|               | Number of Missions Fired            | MLRS OT III           |
|               | Number of Missions Planned          | TACFIRE OT II         |
|               | Number of Missions Processed        | MLRS OT III           |

| Category Code | Test Measure                            | Test Employed in      |
|---------------|---|-----------------------|
| COM           | Number of Ports in Use                  | SCOTT OA              |
|               | Number of Problems                      | MM OT IIa             |
|               | Number of Satellites Available          | NAVSTAR GPS OT I      |
|               | Number of Startpoints                   | NAVSTAR GPS AWE OT II |
|               | Number of Stations in Net               | SINCGARS-V OA         |
|               | Number of Stations Responding           | SINCGARS-V OA         |
|               | Number of Successful Hopsets            | SINCGARS-V LOT        |
|               | Number of Targets Processed             | AN/TPQ-37 OT I        |
|               | Number of Unsuccessful Hopsets          | SINCGARS-V LOT        |
|               | Number of Waypoints                     | NAVSTAR GPS AWE OT II |
|               | Percent Dual Designations               | JTIDS JT              |
|               | Percent Lines Lost in Edit              | SST IOTE              |
|               | Percent Messages Correctly Received     | JTIDS JT              |
|               | Percent Messages Correctly Transmitted  | JTIDS JT              |
|               | Percent Messages Received               | SST IOTE              |
|               | Percent Messages Received               | TACDAM FDE            |
|               | Percent Messages Rejected               | AN/TYC-32 FDE         |
|               | Percent Messages With Errors            | SST IOTE              |
|               | Percent of Messages Degraded            | TACDAM OT IIa         |
|               | Percent of Messages Delayed             | TACDAM OT IIa         |
|               | Percent of Messages Jammed              | TACDAM OT IIa         |
|               | Percent Successful Transmissions        | SST IOTE              |
|               | Percent Targets Tracked                 | JTIDS JT              |
|               | Percent Targets Updated                 | JTIDS JT              |
|               | Receiver to Transmitter Range           | SINCGARS-V LOT        |
|               | Retransmission Rate                     | SINCGARS-V LOT        |
|               | Safety Time for Initial/Subsequent Data | TACFIRE OT II         |
|               | Self Location Error                     | FISTV OT II           |
|               | Time Aircraft Not Tracked               | AN/TSQ-73 OT III      |
|               | Time Aircraft Tracked                   | AN/TSQ-73 OT III      |
|               | Time to Activate                        | SST IOTE              |
|               | Time to Activate                        | Tactical CD System    |
|               | Time to Adjust                          | LWCMS OT II           |
|               | Time to Call Fire                       | LWCMS OT II           |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Complete Action                 | TACFIRE OT II         |
|               | Time to Compose Message                 | NAVSTAR GPS OT I      |
|               | Time to Counter Jamming                 | SST IOTE              |
|               | Time to Display Message                 | JTIDS JT              |
|               | Time to Edit Message                    | SST IOTE              |
|               | Time to Establish Communications Link   | SST IOTE              |
|               |   | SCOTT OA              |

| Category Code                | Test Measure                     | Test Employed In             |
|------------------------------|----------------------------------|------------------------------|
| COM                          | Time to First Fix                | NAVSTAR GPS OT I             |
|                              | Time to Generate Database        | Tactical C3 System           |
|                              | Time to Hopset                   | SINGARS-V LOT                |
|                              | Time to Initialize               | NAVSTAR GPS OT I             |
|                              | Time to Initialize               | XM1 OT II                    |
|                              | Time to Initialize               | TACJAM OT IIa                |
|                              | Time to Initialize               | BCS FDE                      |
|                              | Time to Initialize               | Tactical C3 System           |
|                              | Time to Initialize               | PLRS OT II                   |
|                              | Time to Initialize               | Patriot FDE III              |
|                              | Time to Lay to                   | TACFIRE OT II                |
|                              | Time to Lay to                   | TACFIRE OT II                |
|                              | Time to Load Individual Station  | SINGARS-V OA                 |
|                              | Time to Load Net                 | SINGARS-V OA                 |
|                              | Time to Plot Mission             | LWMS OT II                   |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
|                              | Time to Process and Transmit     | TACFIRE OT II                |
| Time to Process and Transmit | TACFIRE OT II                    |                              |
| Time to Process and Transmit | TACFIRE OT II                    |                              |
| Time to Process and Transmit | TACFIRE OT II                    |                              |
| Time to Register             | LWMS OT II                       |                              |
| Time to Review               | TACFIRE OT II                    |                              |
| Time to Stabilize            | NAVSTAR GPS OT I                 |                              |
| Transmission Rate            | AN/XC-4 OT I, II, III            |                              |
| Transmission Rate            | TACFIRE OT II                    |                              |
| FIR                          | Acquired Locations               | AN/TPQ-37 OT I               |
|                              | Acquisition Time                 | XM1, Leopard 2AV OT I, PH II |
|                              | Angle of Attack                  | MIE1 OT II                   |
|                              | Base Plate Forward Displacement  | XM204 OT II                  |
|                              | Base Plate Vertical Displacement | XM204 OT II                  |
|                              | Boresight Deviation              | MCTNS OT II                  |
|                              | Circular Error Probable          | MLRS OT III                  |
|                              | Cumulative Acquisition Frequency | ITV OT III                   |
|                              | Detection Range                  | US Roland OT II              |
|                              | Detection Range                  | ITV OT III                   |
| Detection Range              | LAV OT II                        |                              |

| Category Code | Test Measure                     | Test Employed In        |
|---------------|----------------------------------|-------------------------|
| FIR           | Detection Range                  | AAH OT II               |
|               | Dispersion                       | Armor Coastal MG OT III |
|               | Elevation Above the Mask         | AN/TPQ-36 OT II         |
|               | Engagement Range                 | MM OT I                 |
|               | Engagement Range                 | Hellfire (Cobra) OT Ob2 |
|               | Engagement Range                 | Sgt York FOE I          |
|               | Errors                           | TACFIRE OT II           |
|               | Errors                           | NNL OT II               |
|               | Errors                           | NNL OT II               |
|               | Errors                           | M60A1ES OT II           |
|               | Errors                           | XM198 OT II             |
|               | Errors                           | XM198 OT II             |
|               | Errors                           | NNL OT II               |
|               | Errors                           | TACFIRE OT II           |
|               | Errors                           | M60A1ES OT II           |
|               | Errors                           | M60A1ES OT II           |
|               | Errors                           | XM198 OT II             |
|               | Errors                           | MM OT I                 |
|               | Errors                           | MM OT I                 |
|               | Firing Time                      | VRFW-5 OT Ia            |
|               | Forward Observation/Target Ratio | CL6P OT I               |
|               | Height of Burst                  | NNL OT II               |
|               | Hit Ratio                        | M60A1ES OT II           |
|               | Hits per Burst                   | Sgt York OT             |
|               | Identification Range             | IFV OT II               |
|               | Identification Time              | XM1, Leopard 2Av        |
|               | Initiation Range                 | AN/TPQ-37 OT I          |
|               | Interception Range               | US Roland OT II         |
|               | Intervisibility                  | M60A1ES OT II           |
|               | Intervisibility Loss             | M60A1ES OT II           |
|               | Kill Probability                 | Sgt York OT             |
|               | Kill Probability                 | Sgt York FOE I          |
|               | Mean Radial Error                | CL6P OT I               |
|               | Mean Radial Error                | CL6P OT I               |
|               | Mean Radial Error                | CL6P OT I               |
|               | Mean Radial Error                | CL6P OT I               |
|               | Mean Radial Error                | CL6P OT I               |
|               | Mean Radial Error                | LWMS OT II              |
|               | Mean Radial Error                | LWMS OT II              |
|               | Mean Radial Error                | LWMS OT II              |
|               | Mean Radial Error                | M48A5 VT                |
|               | Mean Radial Error                | NNL OT II               |
|               | Mean Radial Error                | AN/TPQ-36 OT II         |
|               | Mean Radial Error                | 6/VLLD OT II            |
|               | Mean Radial Error                | XM204 OT IIa            |
|               | Mean Radial Error                | AN/TPQ-37 OT I          |
|               | Mean Radial Error                | XM198 OT II             |
|               | Mean Radial Error                | NNL OT II               |
|               | Mean Radial Error                | AN/TPQ-37 OT I          |
|               | Mean Radial Error                | NAVSTAR 6PS OT I        |
|               | Mean Radial Error                | NAVSTAR 6PS OT I        |
|               | Mean Radial Error                | AN/TPQ-36 FOE I         |
|               | Mean Radial Error                | XM1 OT II               |
|               | Mean Radial Error                | CL6P OT II              |
|               | Mean Radial Error                | US Roland OT II         |
|               | Mean Radial Error                | BCS FOE I               |



| Category Code                     | Test Measure                 | Test Employed In        |
|-----------------------------------|------------------------------|-------------------------|
| FIR                               | Mean Radial Error            | FISTV OT II             |
|                                   | Mean Radial Error            | PLRS OT II              |
|                                   | Mean Radial Error            | DIVAD C/T               |
|                                   | Mean Response Time           | XM198 OT II             |
|                                   | Mean Response Time           | NNL OT II               |
|                                   | Mean Response Time           | M48A5 VT                |
|                                   | Mean Response Time           | M60A1E3 OT II           |
|                                   | Mean Response Time           | MICV/FPW OT I           |
|                                   | Mean Response Time           | XM198 OT II             |
|                                   | Mean Response Time           | SAW OT I                |
|                                   | Mean Response Time           | NNL OT II               |
|                                   | Mean Response Time           | MM OT IIa               |
|                                   | Mean Response Time           | TACFIRE OT II           |
|                                   | Mean Response Time           | MLRS OT III             |
|                                   | Mean Response Time           | BCS FOE                 |
|                                   | Mean Response Time           | FISTV OT II             |
|                                   | Mean Response Time           | NAVSTAR GPS AVE OT II   |
|                                   | Mean Response Time           | M9 ACE                  |
|                                   | Mean Response Time           | Sgt York LT             |
|                                   | Mean Response Time           | DIVAD C/T               |
|                                   | Mean Response Time           | Patriot FOE III         |
|                                   | Mean Rounds Required         | XM198 OT II             |
|                                   | Mean Rounds Required         | XM198 OT II             |
|                                   | Mean Time Required           | CL6P OT I               |
|                                   | Mean Time Required           | XM198 OT II             |
|                                   | Mean Time Required           | CL6P OT I               |
|                                   | Mean Time Required           | CL6P OT I               |
|                                   | Mean Time Required           | AN/TAS-3 OT I           |
|                                   | Mean Time to Hit             | MICV/FPW OT I           |
|                                   | Mean Time to Hit             | XM198 OT II             |
|                                   | Mean Time to Hit             | SAW OT I                |
|                                   | Missile Time of Flight       | Hellfire (Cobra) OT 062 |
|                                   | Mission Time                 | LWOME OT II             |
|                                   | Missions Attempted           | XM198 OT II             |
|                                   | Missions Completed           | XM198 OT II             |
|                                   | Muzzle Velocity              | MICV/FPW OT I           |
|                                   | Number Engaged               | US Roland OT II         |
|                                   | Number Identified            | US Roland OT II         |
|                                   | Number of Alerts             | Patriot FOE III         |
|                                   | Number of Attempts to Engage | XMI OT II               |
|                                   | Number of Boresight Attempts | AN/TAS-3 OT II          |
|                                   | Number of Breaklocks         | US Roland OT II         |
| Number of Bursts                  | Sgt York LT                  |                         |
| Number of Correct Engagements     | IFV OT II                    |                         |
| Number of Correct Identifications | Sgt York LT                  |                         |
| Number of Detections              | MCTNS OT II                  |                         |
| Number of Detections              | XMI, Leopard 2AV OT I, PH II |                         |
| Number of Direct Attacks          | US Roland OT II              |                         |
| Number of Duds                    | NNL OT II                    |                         |
| Number of Engagements             | M60A1E3 OT II                |                         |
| Number of Engagements             | MICV/FPW OT I                |                         |
| Number of Engagements             | IFV OT II                    |                         |
| Number of Engagements             | Hellfire (Cobra) OT 062      |                         |
| Number of Engagements             | Sgt York FOE I               |                         |
| Number of Engagements             | M1A1 120mm Service Round OT  |                         |

| Category Code | Test Measure                   | Test Employed In             |
|---------------|--------------------------------|------------------------------|
| FIR           | Number of Engagements          | LAV OT IIa                   |
|               | Number of Engagements          | Patriot FDE III              |
|               | Number of False Targets        | Sgt York LT                  |
|               | Number of Firing Locations     | AN/TPQ-37 OT I               |
|               | Number of Firing Locations     | AN/TPQ-36 OT II              |
|               | Number of Firing Opportunities | M1E1 OT I:                   |
|               | Number of Firings              | ITV FDE                      |
|               | Number of Firings              | Stinger OT II                |
|               | Number of Hits                 | Dragon Night Tracker OT I    |
|               | Number of Hits                 | Dragon OT IIIa               |
|               | Number of Hits                 | IFV OT II                    |
|               | Number of Hits                 | Dragon Night Tracker OT II   |
|               | Number of Hits                 | MCTNS OT II                  |
|               | Number of Hits                 | ITV OT III                   |
|               | Number of Hits                 | ITV FDE                      |
|               | Number of Hits                 | XM1 OT I:                    |
|               | Number of Hits                 | CL6P OT II                   |
|               | Number of Hits                 | XM1, Leopard 2AV OT I, PH II |
|               | Number of Hits                 | Stinger OT II                |
|               | Number of Hits                 | M48A5 VT                     |
|               | Number of Hits                 | MICV/FPW OT I                |
|               | Number of Hits                 | NNL OT I:                    |
|               | Number of Hits                 | MICV/FPW OT I                |
|               | Number of Hits                 | M1A1 120mm Service Round OT  |
|               | Number of Hits                 | LAV OT IIIa                  |
|               | Number of Hits                 | LAV OT IIIa                  |
|               | Number of Hits                 | VIPER OT II                  |
|               | Number of Hits                 | XM1 OT III:                  |
|               | Number of Impact Predictions   | AN/TPQ-36 OT II              |
|               | Number of Interceptions        | O1VA9 C/T                    |
|               | Number of Interrogations       | Sgt York LT                  |
|               | Number of Kills                | Stinger OT II                |
|               | Number of Launches             | Stinger FDE OT II            |
|               | Number of Misses               | IFV OT II:                   |
|               | Number of Misses               | MCTNS OT II                  |
|               | Number of Misses               | ITV OT III:                  |
|               | Number of Misses               | ITV FDE                      |
|               | Number of Misses               | XM1 OT I:                    |
|               | Number of Misses               | CL6P OT II                   |
|               | Number of Misses               | XM1, Leopard 2AV OT I, PH II |
|               | Number of Misses               | M1A1 120mm Service Round OT  |
|               | Number of Misses               | VIPER OT II                  |
|               | Number of Misses               | XM1 OT III                   |
|               | Number of Missions             | Improved 91mm Mortar OT II   |
|               | Number of Missions             | ECS FDE                      |
|               | Number of Positions Located    | AN/TPQ-36 FDE I              |
|               | Number of Reloads              | ITV FDE                      |
|               | Number of Repetitions          | AN/TPQ-36 FDE I              |
|               | Number of Rounds Detonated     | CL6P OT II                   |
|               | Number of Rounds Fired         | M48A5 VT                     |
|               | Number of Rounds Fired         | AN/TPQ-37 OT I               |
|               | Number of Rounds Fired         | M60A1E3 OT II                |
|               | Number of Rounds Fired         | XM198 OT II                  |
|               | Number of Rounds Fired         | SAW OT I                     |
|               | Number of Rounds Fired         | XM204 OT II                  |