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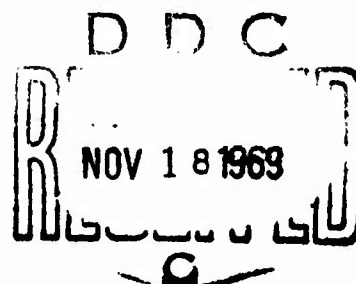
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TECHNICAL PAPER
RAC-TP-382

NOVEMBER 1969

Estimating Resource Allocations for RVN Land-Combat Forces

by
Irving Heymont



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RESOURCE ANALYSIS DEPARTMENT
TECHNICAL PAPER RAC-TP-382
Published November 1969

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Estimating Resource Allocations for RVN Land-Combat Forces

by
Irving Heymont



Research Analysis Corporation

McLean, Virginia

FOREWORD

RAC has published a series of studies* tracing the total resource allocations for support of the Republic of Vietnam land-combat forces during the period FY58-FY68. This paper describes the method used in preparing the latest study in this series, taking into account the changes over time in the ways in which support for the RVN land-combat forces has been furnished and in the manner in which such support has been recorded and reported. The method is designed to allow estimation of resource allocations from all sources by US fiscal year and in terms of US dollars or dollar equivalents. For brevity and clarity the explanation of the method is predicated on the readers' having examined the five references alluded to and having (of these) either RAC-TP-368 or RAC-TP-333 readily available.

This document has been prepared to assist the Department of the Army staff and others in tracing resource allocations for support of RVN land-combat and comparable forces.

Arnold Proshan
Head, Resource Analysis Department

*These studies are listed in the Reference section as Refs 1 to 5.

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Mrs. Irene E. Jacobs assisted in the preparation of the appendix and annexes. Mrs. Patricia E. Fink prepared the manuscript.

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**Estimating Resource Allocations
for RVN Land-Combat Forces**

ABSTRACT

This document describes methods and source documents required to estimate historical total resource allocations in support of the Republic of Vietnam (RVN) Army, Regional Forces, and Popular Forces and to derive planning factors from such allocations. The methods described cover all known US and RVN sources and provide for estimating the total resources provided for each force by US fiscal year in terms of costs of materiel delivered, maintenance of materiel, construction and maintenance of facilities, pay and allowances, and miscellaneous activities and agencies. The methods do not provide for differentiating between investment costs and operating costs, or for identifying US Army funding sources in terms of budget programs.

ABBREVIATIONS

AID	Agency for International Development
alw	allowance
ARVN	Army, Republic of Vietnam
BAR	Browning Automatic Rifle
CONUS	continental US
CY	calendar year (with year)
DOD	Department of Defense
EAM	electronic accounting machine
EM	enlisted man (men)
FSN	Federal stock number
FY	fiscal year (with year)
FWMAF	Free World Military Assistance Forces
MAP	Military Assistance Program
MASF	Military Assistance Service Funded
MASL	Military Assistance Articles and Services List
MCA	Military Construction, Army
MPA	military personnel, Army
OMA	operation and maintenance, Army
PACOM	Pacific Command
PEMA	procurement of equipment and missiles, Army
RVN	Republic of Vietnam
TA	table of allowances
TOE	table(s) of organization and equipment
USARFAC	US Army, Pacific
USARV	US Army, Vietnam
USMACV	US Military Assistance Command, Vietnam

Chapter 1

INTRODUCTION

PURPOSE

To describe a method and the source documents required to estimate historical total resource allocations in support of the Republic of Vietnam (RVN) Army, Regional Forces, and Popular Forces and to derive planning factors from such allocations.

SCOPE

The method described covers all known US and RVN sources that furnish materiel and money to support the RVN Army, Regional Forces, and Popular Forces. The method provides for estimating the total resources provided (actual and constructive*) for each force by US fiscal year in terms of costs (in dollars and dollar equivalents) of materiel delivered, maintenance of materiel, construction and maintenance of facilities, pay and allowances, and miscellaneous activities and agencies. The method does not provide for differentiating between investment costs and operating costs, or for identifying US Army funding sources in terms of budget programs.

Procedures are described for developing certain planning factors for use in estimating initial resource requirements in planning support of indigenous forces in future situations comparable to that existing in the RVN. The planning factors are derived from the estimated resource allocations as experienced in support of RVN land-combat forces.

The method and source documents are based on the RVN and US logistical and funding systems existing in May 1969 for support of the RVN Army, Regional Forces, and Popular Forces.

The method does not include estimates of resource allocations for US units and US personnel in support of RVN forces.

*A constructive delivery is the turnover of materiel from an offshore supply installation to a common carrier for delivery to first destination in the RVN.

THE SUPPORTED FORCES

RVN Army

The RVN Army is currently a conventional force built around four corps containing ten triangular infantry divisions with supporting nondivisional units. The infantry divisions normally have three infantry regiments and supporting units. Most regiments have four infantry battalions. The major nondivisional combat elements of the RVN Army are airborne, separate infantry, armored, and ranger units. A summary of the RVN Army logistical system in FY68 is contained in RAC-TP-368.¹

Regional Forces and Popular Forces

The Regional Forces are lightly equipped companies and platoons designed for rural-area operations within the protective shield of the RVN Army. Regional Forces personnel are normally recruited and stationed in their home provinces. The force structure of the Regional Forces is based primarily on rifle companies, boat companies for inland waterway patrol, separate mechanized platoons, administrative companies, direct-support and logistics companies, and Regional Forces/Popular Forces Group Headquarters. The last unit was created to control Regional Forces companies and Popular Forces platoons of either the province or district level as required.

The Popular Forces are a rural militia normally stationed in the villages where they are recruited. The only force structure unit in the Popular Forces is the platoon.

Logistical functions for both the Regional Forces and Popular Forces are performed by the Regional Force provincial administrative and direct-support logistical company. This company is logistically supported by the RVN Army technical service direct-support units and field depots of the Area Logistical Command (see Ref 1, App A).

SOURCES OF SUPPORT

The sources of support for the RVN Army, Regional Forces, and Popular Forces are:

- (a) US Army appropriations
- (b) US economic assistance programs under the auspices of the Agency for International Development (AID) that produce funds for support of the RVN Defense Budget.
- (c) AID in-country projects
- (d) RVN governmental appropriations (Defense Budget)
- (e) Other

The flow of these resources to the RVN Army, Regional Forces, and Popular Forces is shown schematically in Fig. 1.

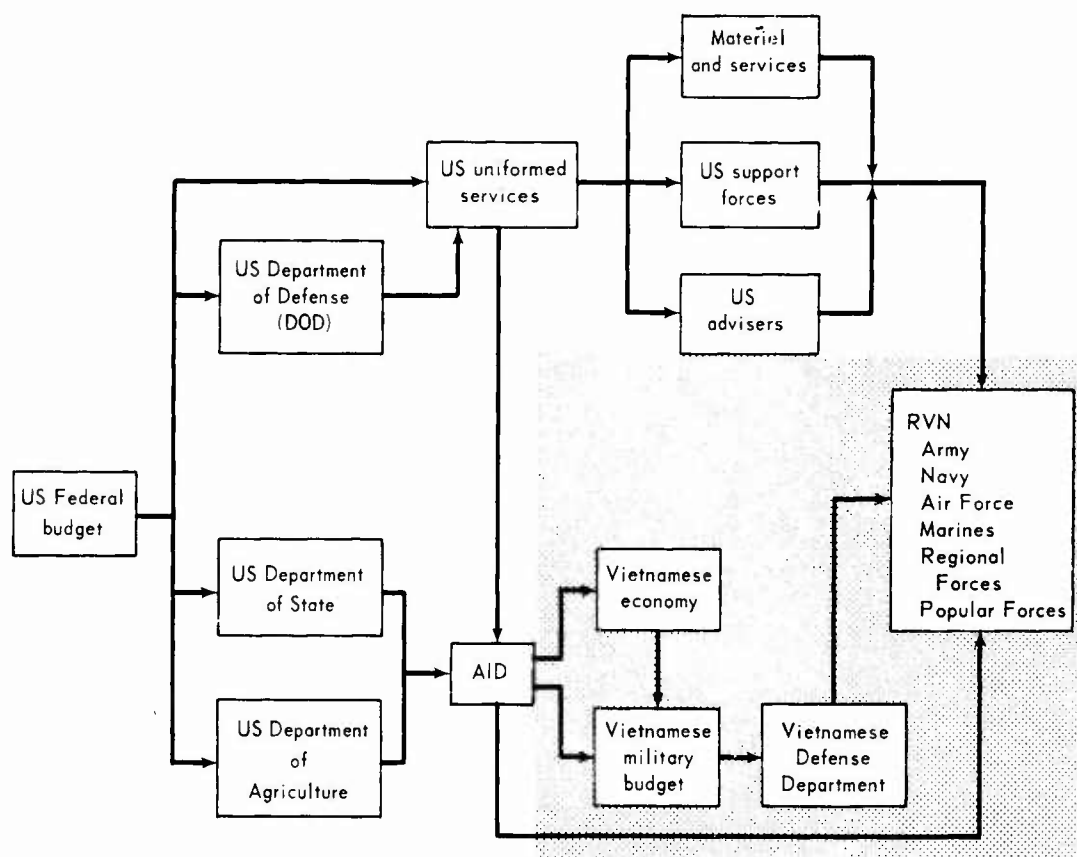


Fig. 1—US Assistance to the RVN, FY68

US Army Appropriations

The US Army is responsible for furnishing military assistance materiel and services, including funding, for support of the RVN Army, Regional Forces, and Popular Forces. The US Army is also responsible for furnishing Army-type ammunition and common supply items (primarily expendables) for all RVN armed forces. The funds for this military assistance are included within the US Army annual military functions appropriations, specifically, operation and maintenance, Army (OMA); procurement of equipment and missiles, Army (PEMA); military personnel, Army (MPA); and military construction, Army (MCA). This type of support is generally referred to as the Military Assistance Service Funded (MASF) program. Under Military Assistance Program (MAP) procedures, funds were provided by a separate military assistance appropriation. The current documentation of deliveries of military assistance materiel and services does not indicate in all cases the intended recipient in terms of a specific RVN armed force. A method for allocating among the RVN Army, the Regional Forces, and the Popular Forces the materiel and services furnished under this program is described in Chap. 3. The general procedures used by

the US Army in carrying out this support are described in App A of Ref 1. Similar service-funded MAPs are carried out by the US Air Force in support of the RVN Air Force and by the US Navy in support of the RVN Navy and RVN Marine Corps.

US Economic Assistance Programs

AID furnishes economic assistance to the RVN through a number of programs. Two of these, the Commercial Import and the Food for Freedom (PEACE) programs, generate local-currency funds (RVN piasters). Some of these funds are used to support the RVN Defense Budget. Descriptions of each of these two assistance programs and the various local-currency funds that are generated are described in RAC-TP-232.²

AID In-Country Projects

AID also conducts within the RVN a number of projects that are financed, by direction of the Secretary of Defense, by the US military services primarily through their operation and maintenance appropriations. These projects often change and have limited duration. The only one conducted in FY68 that contributed directly to the RVN forces studied was a self-help construction project for housing Popular Forces dependents.

AID at times also conducts other projects that are in direct support of one or more of the three forces studied. These projects may be conducted directly by AID or through another organization. For example, the Catholic Relief Services for several years distributed surplus commodities furnished under AID programs to Popular Forces personnel and their dependents. This program is no longer in effect.

RVN Defense Budget

The Defense Budget of the RVN provides funds (in piasters) primarily for annual operating expenses of all the RVN armed forces. It is prepared for the calendar year, which is also the RVN fiscal year (1 January to 31 December). The support furnished under MASF programs is not included in the RVN Defense Budget. The US supports the RVN Defense Budget with some of the local currencies generated by US economic assistance programs. The preparation and the administration of the RVN Defense Budget are closely monitored by HQ, US Military Assistance Command, Vietnam (USMACV). Annex A1 of App A shows the components of a typical RVN Defense Budget.

A method for allocating the RVN Defense Budget among the supported armed forces in order to derive the budgets for the RVN Army, Regional Forces, and Popular Forces is described in Chap. 2. The method also covers conversion of the derived defense budgets into dollar equivalents for US fiscal year periods.

Other

The RVN Army also receives some materiel on an emergency or special basis from the in-country stocks of US Army, Vietnam (USARV). Sources for

these data are described in App A. The three forces receive significant amounts of materiel unofficially as a result of the efforts of US Army advisers to improve the status and capabilities of the units they are advising. There are no known data to indicate the amount of this unofficial support.

RESOURCE ALLOCATION METHOD

Chapters 2 to 5 describe the means of estimating resource allocations in terms of costs of materiel deliveries, maintenance of materiel, construction and maintenance of facilities, training, pay and allowances, and other expenses for support of the RVN Army, Regional Forces, and Popular Forces. The resource allocations are estimated by US fiscal year and in terms of US dollars or dollar equivalents. For brevity and clarity the explanation of the method is predicated on the reader's having examined Refs 1 to 5 and having, of these, Refs 1 or 3 readily available.

SOURCE DOCUMENTS

The source documents required to estimate the resource allocations in support of the RVN Army, Regional Forces, and Popular Forces are described in App A. For convenient reference to these documents in the chapters that follow, the documents are numbered sequentially within App A. Thus a reference to document A4 means the fourth document listed in App A.

Chapter 2

RVN DEFENSE BUDGET ALLOCATIONS AND CONVERSIONS

GENERAL

The RVN Defense Budget is formulated annually and provides for certain expenses of all the RVN armed forces. It is divided into chapters, which are subdivided into articles, which are usually further subdivided into items. The Defense Budget usually contains some explanation and justification for each article and item. It covers a calendar year starting 1 January and expresses funds in piasters. Annex A1 of App A lists the chapters and articles of a typical defense budget.

In estimating the total resource allocations for a given US fiscal year (1 July through the following June) for the RVN Army, Regional Forces, and Popular Forces it is necessary to (1) derive each one's share of the applicable total RVN Defense Budget, (2) convert these derived defense budgets into dollar equivalents, and (3) add appropriate portions of the derived budgets to cover a US fiscal year. The remainder of this chapter describes a method for accomplishing these steps.

The sum of the derived defense budgets for the RVN Army, Regional Forces, and Popular Forces will be less than the total RVN Defense Budget. In the same manner, the sum of the allocations (expressed in percentages) of an individual chapter, article, or item may be less than 100 percent because of support to other RVN armed forces. For example, 90 percent of the expenses for feeding certain military prisoners (Budget Chap. 5, Art. 2) are allocated to the RVN Army, Regional Forces, and Popular Forces. The remaining 10 percent represents support to the RVN Navy, Air Force, and Marine Corps.

In past studies allocations were based on judgment in a number of instances. For the most part, this judgment was formed by such available data as equipment densities and relative strengths of each of the RVN armed forces.

GENERAL ALLOCATION PROCEDURES

The following allocation procedures are based on the RVN 1969 Defense Budget (Annex A1 of App A lists the contents of this Budget by chapter and article). These procedures have been generally used in earlier studies (see Refs 1-5) in allocating RVN Defense Budget costs among the supported forces.

Because of minor rearrangements within each budget the procedures may require some modification to be applicable to the defense budgets of other years.

In allocating the RVN Defense Budget among the RVN Army, Regional Forces, and Popular Forces each article and item must be examined because in a number of instances one RVN armed force furnishes some support for another. For example, the Navy (Chap. 8, Art. 2, Item 5, of the Defense Budget) also furnishes funds for equipment and material for the Regional Forces River Patrol Group and funds (Art. 2, Item 6) for equipment and material for vessels of the RVN Army Transportation Service. These funds are properly allocated to the derived defense budgets for the Regional Forces and the RVN Army. The justification data given in the Defense Budget at the item level frequently indicate the specific force to receive all or some of the funds covered. For example, the justification data provided for data-processing machines (Budget Chap. 12, Art. 6, Item 3) indicate the specific funds intended for the RVN Army and for the RVN Air Force.

In examining every entry in the Defense Budget, care must be taken to avoid confusion resulting from the loose use of terms and abbreviations. For example, the abbreviation "ARVN" and the term "regular forces," are sometimes used interchangeably in the Defense Budget to refer collectively to the RVN Army, Navy, Air Force, and Marine Corps. In US usage the abbreviation "ARVN" is used to denote only the RVN Army.

Most of the costs of the RVN Army, Regional Forces, and Popular Forces funded through the RVN Defense Budget are to some degree personnel-dependent because these forces have no aircraft or missiles and very little armor. Further, about 70 percent of the Defense Budget is usually devoted to pay and allowances of military personnel. Therefore, to allocate the RVN Defense Budget among the supported forces it is necessary to have data on the total assigned strengths of each force supported by the Budget. Additionally it is necessary to have data on the assigned officer and enlisted strengths of the RVN Army, Navy, Air Force, and Marine Corps because the pay and allowances for these forces are treated in the Defense Budget as aggregates for officers and enlisted personnel. Document A10 contains data on the assigned strength of each force. Data on assigned officer and enlisted strength of the RVN Army, Navy, Air Force, and Marine Corps are available at HQ USMACV (MACJ14) and from the Joint Chiefs of Staff, Office of the Special Assistant for Counterinsurgency and Special Activities.

Those chapters, articles, and items in the RVN Defense Budget that are unquestionably applicable to only one of the three forces studied, or to none of them, are not referred to specifically in the subsequent paragraphs.

ALLOCATION PROCEDURES FOR MILITARY PERSONNEL AND SUBSISTENCE COSTS (Budget Chaps. 1 to 5)

The costs of the office of the Minister of National Defense and War Veterans (Budget Chap. 1) are allocated to the RVN Army because of its predominant size as compared to the Navy, Air Force, or Marine Corps.

In allocating the costs of officer and enlisted pay and allowances (Budget Chaps. 2 and 3) it is assumed that (1) all regular personnel attached to the Regional Forces and Popular Forces are RVN Army personnel and their costs are allocated to the RVN Army and (2) the distribution of military personnel by grade is uniform for the RVN Army, Navy, Air Force, and Marine Corps. The costs of officer and enlisted pay and allowances, except those listed for a specific force (RVN Army, Air Force, Navy, Marine Corps, Regional Forces, or Popular Forces) are allocated according to the ratio of the calendar-year average assigned strength of the specific force concerned to that of all the forces supported by the Defense Budget listing. For example, Budget Chap. 2, Art. 1, covers base pay for regular forces officers. After deduction of a few minor entries covering funds for specific forces, the allocation to the RVN Army of the residual base pay is determined by the following formula:

$$\text{RVN Army allocation} = \frac{A(C)}{A + B}$$

where A = average assigned strength of RVN Army officers
 B = sum of the average assigned strength of officers of the RVN Navy, Air Force, and Marine Corps officers
 C = sum of all entries in Chap. 1, Art. 1, of the RVN Defense Budget (base pay of regular officers) less funds identified for officers of a specific force

The remainder of the Defense Budget concerned with military personnel costs (Budget Chaps. 2, 3, and 4) is allocated using the formula previously outlined.

TABLE 1
Allocation of Incidental Subsistence Expenses

Article	Item	Allocation, percent	Short description
1	3, 4, 7	90 RVN Army	Allowance for cadets
1	9, 10, 15	60 RVN Army 30 Regional Forces	Feeding of unfit personnel and certain other personnel
1	14	30 RVN Army 20 Regional Forces 50 Popular Forces	Special allowances for convalescent center
1	16, 17	70 RVN Army 20 Regional Forces 10 Popular Forces	Expenses for feeding certain prisoners, disabled servicemen, and dependents
2	1	60 RVN Army 20 Regional Forces 10 Popular Forces	Expenses for feeding certain military persons
2	2-5	100 RVN Army	Expenses for feeding prisoners of war and certain other detained personnel

Budget Chap. 5, Subsistence, is allocated using the general procedures outlined for Budget Chaps. 1 to 4. Some entries in Budget Chap. 5 that are not directly force related are allocated as shown in Table 1. These allocations, which involved only small amounts of funds, are based on judgment.

ALLOCATION PROCEDURES FOR TECHNICAL SERVICE COSTS
(Budget Chaps. 6 to 15)

Transportation (Budget Chaps. 6, 7)

The Transportation Corps of the RVN armed forces has no supply function and is responsible for all transportation services. The largest user of these services, considering volume and material and logistical organization, is the RVN Army. Consequently all costs under this chapter are allocated to the RVN Army except for transportation of personnel, which is covered in Art. 7. The items in this article are allocated, based on judgment, as shown in Table 2.

TABLE 2
Allocation of Personnel Transportation Costs

Items in Art. 7	Allocation, percent	Short description
1, 2	60 RVN Army 20 Regional Forces 10 Popular Forces	Transportation of servicemen, dependents, and civilians
3	90 RVN Army	Transportation of civilians,
4	100 RVN Army	Travel of National Defense College

Ordnance (Budget Chap. 9)

The Ordnance Corps is a supply and maintenance agency primarily for the RVN Army, Regional Forces, and Popular Forces. It also provides some maintenance support for Army-type equipment held by the RVN Navy, Air Force, and Marine Corps. The largest user of Ordnance Corps services and supplies, considering volume of material and logistical organization, is the RVN Army. Consequently all costs under this chapter not directly identified with a specific force are allocated, based on judgment, as shown in Table 3.

TABLE 3
Allocation of Incidental Ordnance Expenses

Article	Item	Allocation, percent	Short description
1	1, 2	70 RVN Army 10 Regional Forces 5 Popular Forces	Technical equipment and common items
1	3	80 RVN Army 10 Regional Forces	Non-MASF spare parts
2	2,3	80 RVN Army 10 Regional Forces	Electrolyte and battery shipping containers
3, 4		100 RVN Army	Civilian personnel
5		70 RVN Army 10 Regional Forces	Operating expenses

Signal (Budget Chap. 10)

The Signal Corps is a supply and maintenance agency primarily for the RVN Army and the Regional Forces. The signal equipment in the hands of the Popular Forces is minimal. The Signal Corps also provides some maintenance support for Army-type equipment held by the RVN Navy, Air Force, and Marine Corps. The largest user of Signal Corps services and supplies, considering volume of material and logistical organization, is the RVN Army. Consequently all costs under this chapter not directly identified with a specific force are allocated, based on judgment, as shown in Table 4. The Defense Budget funds for the signal support of the Popular Forces are considered to be negligible.

TABLE 4
Allocation of Signal Corps Expenses

Article	Allocation, percent	Short description
1, 2	80 RVN Army 10 Regional Forces	Technical equipment and common items
3, 4	100 RVN Army	Civilian personnel
5	100 RVN Army	Operating expenses
6	80 RVN Army 10 Regional Forces	Postal, telephone, and telegraph services

Engineer (Budget Chap. 11)

This chapter provides for supply, personnel, and operating funds for the Area Construction Offices of the Office, Chief of Engineers, and engineer and maintenance units. It also provides funds for utilities and the operation of the National Geographic Service. This chapter does not provide funds for new construction or repair and rehabilitation. All costs under this chapter not directly identified with a specific force are allocated, based on judgment, as shown in Table 5.

TABLE 5
Allocation of Engineer Expenses

Article	Item	Allocation, percent	Short description
1		80 RVN Army 10 Regional Forces	Technical equipment
2	1-6	80 RVN Army 10 Regional Forces	Common items
2	7, 8	60 RVN Army 20 Regional Forces 10 Popular Forces	Defensive construction materials
3-5		100 RVN Army	Civilian personnel and operating expenses
6		70 RVN Army 20 Regional Forces	Utilities

Quartermaster (Budget Chap. 12)

This chapter provides for quartermaster supplies and service for the RVN armed forces. Most of these costs are personnel dependent. All costs under this chapter not directly identified with a specific force are allocated, based on judgment, as shown in Table 6.

TABLE 6
Allocation of Quartermaster Expenses

Article	Item	Allocation, percent	Short description
1		100 RVN Army	Technical material
2	1-4 7, 8	100 RVN Army	Common items
2	5	60 RVN Army 20 Regional Forces 10 Popular Forces	Common items for troop units
2	6	50 RVN Army	Common items for other agencies
2	7, 8	100 RVN Army	Pallets and sanitation items for prisoners
3,4		100 RVN Army	Civilian personnel
5		80 RVN Army 10 Regional Forces	Operating expenses and bulk products
6	1	80 RVN Army 10 Regional Forces	Office furniture
6	2-4	100 RVN Army	Office machinery and national military academy
7	4	100 RVN Army	Enlisted messes and billets
8	1, 3, 4	60 RVN Army 20 Regional Forces 10 Popular Forces	Clothing and decorations
8	2	50 RVN Army 30 Regional Forces 20 Popular Forces	Hospital items
8	5-7	100 RVN Army	Soap, clothing testing, honor guard uniforms
9	1	90 RVN Army	Table of organization and equipment (TOE) items
9	2-5, 7-10	100 RVN Army	Laborers, dog equipment, cemetery maintenance, musical instruments, hospital equipment, airborne equipment, tents, and panels
9	6	50 RVN Army 30 Regional Forces 20 Popular Forces	Burial expenses
10		80 RVN Army 10 Regional Forces	Petroleum, oils, and lubricants (POL) expenses

TABLE 6 (continued)

Article	Item	Allocation, percent	Short description
11	1	60 RVN Army 30 Regional Forces	Operational rations
11	2	60 RVN Army 20 Regional Forces 10 Popular Forces	Vitamin pills
11	3, 4, 7	100 RVN Army	Dog food, food testing, farm program
11	6	Percent aggregate enlisted strength of force concerned	Administrative foods

Medical (Budget Chap. 13)

This chapter provides for **operational expenses** of the RVN Medical Branch including medical supplies and equipment, **personnel**, **reimbursements** of hospital fees, and food for patients. All costs under this chapter not directly identified with a specific force are allocated, based on judgment, as shown in Table 7.

TABLE 7
Allocation of Medical Expenses

Article	Item	Allocation, percent	Short description
1		60 RVN Army 20 Regional Forces 10 Popular Forces	Pharmaceuticals and miscellaneous
2	1	60 RVN Army 20 Regional Forces 10 Popular Forces	Common expendable items
2	2	70 RVN Army 20 Regional Forces	Common nonexpendable items
3-5		90 RVN Army	Civilian personnel, operating expenses
6	1	60 RVN Army 20 Regional Forces 10 Popular Forces	Treatment expense
6	2	90 RVN Army	Care expenses
7, 8		60 RVN Army 20 Regional Forces 10 Popular Forces	Hospital fees and subsistence

ALLOCATION PROCEDURES FOR CENTRAL AND REGIONAL AGENCIES COSTS (Budget Chaps. 16 and 17)

These chapters provide funds for certain staff agencies at the Joint General Staff level and for miscellaneous administrative activities and supplies at sub-

ordinate headquarters. All costs under these chapters not directly identified with a specific force are allocated, based on judgment, as shown in Tables 8 and 9.

TABLE 8
Allocation of Expenses for Central Agencies
(Budget Chap. 16)

Article	Item	Allocation, percent	Short description
3-5		100 RVN Army	Civilian personnel, office supplies, and forms
6	1	80 RVN Army 20 Regional Forces	Office supplies for existing units
	2	100 RVN Army	Publication center

TABLE 9
Allocation of Expenses for Regional Agencies
(Budget Chap. 17)

Article	Item	Allocation, percent	Short description
3-5		100 RVN Army	Civilian personnel and operating expenses
6	1A, 2	80 RVN Army 20 Regional Forces	Office supplies for existing units
	3	Entries for "regular" are for RVN Army	Dossier preparation
	4	100 RVN Army	Deserter-laborers
7	1	100 RVN Army	Petty-cash fund
8		100 RVN Army	Pay of prisoners of war

ALLOCATION PROCEDURES FOR CONSTRUCTION, FACILITIES MAINTENANCE, AND REAL ESTATE COSTS (Budget Chaps. 18 and 19)

These chapters cover construction, facilities maintenance, and real estate costs for all the RVN armed forces and the Free World Military Assistance Forces (FWMAF) in Vietnam. In the past there have been sharp differences between budgeted and actual costs and there is reason to believe that this situation will continue. The best source for data on actual costs is the Engineer Advisory Division of J4 of HQ USMACV and document A8. It is recommended that the estimates in Budget Chaps. 18 and 19 not be used. A suggested method for estimating costs of construction, facilities maintenance, and real estate is described in Chap. 5 of this publication.

ALLOCATION PROCEDURES FOR TRAINING COSTS
(Budget Chap. 20)

All costs under this chapter not directly identified with a specific force are allocated, based on judgment, as shown in Table 10.

TABLE 10
Allocation of Training Expenses

Article	Item	Allocation, percent	Short description
1	1	90 RVN Army	Regular force in-place training
2	1	100 RVN Army	Ceremonies
2	2	90 RVN Army	Marksmanship awards
3	1-3	100 RVN Army	Schools and training centers
4		100 RVN Army	Publications
5		90 RVN Army 10 Regional Forces	Training aids

ALLOCATION PROCEDURES FOR MISCELLANEOUS COSTS
(Budget Chaps. 21 to 30)

These chapters cover the costs of miscellaneous activities that for the most part are not directly related to the functions or strengths of a given RVN armed force. The costs under these chapters are allocated, based on judgment, as shown in Table 11.

TABLE 11
Allocation of Miscellaneous Expenses

Chapter	Item	Allocation, percent	Short description
21		100 RVN Army	Foreign technicians
22	1, 2, 8	50 RVN Army 30 Regional Forces 10 Popular Forces	Donations and special allowances
22	3-7	70 RVN Army 20 Regional Forces	Schools and maternity clinics
23		70 RVN Army 20 Regional Forces	Court costs and claims
24		100 RVN Army	Pacification
26		Disregard	MACV expenses (non-RVN costs)
28		80 RVN Army 10 Regional Forces	Chaplains
29		90 RVN Army 10 Regional Forces	Political warfare
30		Disregard	Veterans affairs (not considered costs of maintaining armed forces)

CONVERSION TO DOLLAR EQUIVALENTS

The derived defense budget for each force is converted to dollar equivalents by applying to the piaster amounts the effective legal rate of exchange that was in effect when the Defense Budget was approved. This date usually appears in the Defense Budget. This method has been used in the studies of RVN allocations listed as Refs 1-5. Information on the effective legal rate of exchange is available at the Department of State, Agency for International Development, Vietnam Bureau, Programming and Economic Policy Division, Washington, D.C., 20520; and at HQ USMACV, Office of the Comptroller, Vietnam Advisory Division, APO 96222, San Francisco, Calif.

CONVERSION TO US FISCAL-YEAR BASIS

To convert the RVN Defense Budgets to a given fiscal year, two successive calendar-year RVN Defense Budgets are required. For example, to determine the RVN Defense Budget covering US FY69, the Budgets for CY68 and CY69 are required. Assuming that the Defense Budget is expended at a uniform rate during the 2 years, one-half of each, by like chapters, articles, and items is used to arrive at the Defense Budget covering US FY69. If all the chapters, articles, and items do not coincide, those that are different are carried forward in the US FY69 budget as distinct entries. This situation is not very common.

The assumption that the Defense Budget is expended at a uniform rate should be checked with HQ USMACV, Office of the Comptroller, Vietnam Advisory Division. In some years the rate of expenditure is not uniform. For example, that office estimated that only 45 percent of the CY68 Defense Budget was expended during the period 1 January-30 June 1968.

Chapter 3

ALLOCATION OF US ARMY MASF MATERIEL AND SERVICES (LESS AMMUNITION)

GENERAL

The International Logistics Service Funded Report Program and Delivery (document A2), prepared by the US Army, International Logistics Center, is the most authoritative source available on deliveries of US materiel and services for the RVN Army, Regional Forces, and Popular Forces under the MASF program. This document is referred to in this chapter as "the report." The report for Vietnam also includes data on certain US Army MASF materiel and services for the FWMAF in Vietnam (currently Korea, Thailand, and Philippines) and for US military advisers.

The data contained in the report serve many purposes. The key data for the purpose of determining resource allocations are generic codes, MAP element codes, and current-year deliveries (to include description, number, and costs).

A generic code contains three characters and is used to group military assistance articles and services for reporting and management purposes. The first character of the code, a letter, identifies a budget activity such as aircraft (A), missiles (B), ships (C), and combat vehicles (D). The second character is a number assigned to a budget project. For example, F1 denotes weapons (F) and guns up to 75 mm (1). The third character, when used, is a letter assigned to a group of articles and services with similar characteristics. For example, in generic code F1C, the last character C denotes rifles. A listing of generic codes is in AR 795-16 (see document A19). Some generic codes, known as "dollar lines," do not include data on specific items.

MAP ELEMENT CODES

Allocations for the RVN Army, Regional Forces, and Popular Forces are estimated in terms of MAP elements, defined as integrated activities—a combination of men, equipment, supplies, facilities, and other resources—which together constitute an identifiable military force, unit activity, or specific function. For example, MAP elements can be an Army division, nondivisional signal units, or equipment to compensate for expected attrition losses for a specific force.

MAP elements are now identified by a four-character code. The first character is a numeric identifying a major program as shown in the following list:

- 2 Air and missile defense forces
- 3 General-purpose forces
- 4 Airlift and sealift forces
- 5* Reserve forces
- 6 Research and development
- 7 General support

The last three characters used in the MAP element code are alphabetic. The general scheme of the MAP element codes is in AR 795-16 (document A19). The specific MAP elements used in RVN programs are contained in the Pacific Command (PACOM) S4 MAP Element Index for Vietnam (document A3).

ALLOCATION PROCEDURES

The general sequence of procedures used in allocating US Army MASF materiel and services is: (1) isolate current-year deliveries, (2) eliminate non-pertinent MAP elements, (3) allocate the remaining MAP elements among the RVN Army, Regional Forces, and Popular Forces.

The first step, isolation of current-year deliveries, is necessary because the International Logistics Service Funded Report Program and Delivery (document A2) carries data on every program for support of RVN forces including those not yet fulfilled (deliveries incomplete). As a result, a significant number of entries are carried forward but no deliveries are shown for the fiscal year covered by the report.

As indicated earlier, certain MAP elements that are included in the RVN program are not pertinent to support of RVN armed forces. These MAP elements generally provide materiel for US advisers and some materiel for forces of other nations operating in the RVN. The nonpertinent MAP element codes identified in past studies are listed:

7XPI	Philippine forces
3XKS, 3YKS, 3ZKS, 7SKM,	Korean forces
7XKS, 7YKS	
7FCA	US military advisers
7XTH	Thai forces

Under MASF procedures the report should not contain any MAP element codes that are identified solely with the RVN Navy, Air Force, or Marine Corps. The MASF programs of the Navy and Air Force are documented in other reports.

These MASF procedures may be executed manually, but this is a laborious process with great potential for errors. It is recommended instead that the procedures described under either Alternative 1 or Alternative 2 be used. It is

*Not currently used in RVN programs.

also recommended that Chap. 5 of this paper be studied before the allocation of material and services, as recorded in the report, is undertaken.

Alternative 1

This alternative depends on the use of the tapes from which the printed copy of the report is prepared; it should be used only if the service is provided by the US Army International Logistics Center or if the agency making the resource allocation study has (a) convenient access to computer equipment compatible to that used by the International Logistics Center, (b) the record and file format of the data tapes, and (c) programmer support.

Step 1. The first step is to list, from a printed copy of the report, MAP element codes for the RVN (country code VS) and to divide these codes into the following groups:

- Group I Not applicable to the RVN Army, Regional Forces, and Popular Forces
- Group II Applicable only to the RVN Army
- Group III Applicable only to the Regional Forces
- Group IV Applicable only to the Popular Forces

These groups, particularly that for the RVN Army, may be subdivided for more detailed analysis without changing the procedures. Examples of subdivision of Group II (RVN Army) are contained in App C of Ref 1.

Previous studies have shown that MAP element codes fall into Groups II to IV as shown in the accompanying tabulation.

Group	MAP element codes						
II (RVN Army) ^a	3AAB,	3AAC,	3AAD,	—	3AAE,	3AAF,	3AAK,
	3AAL,	3AAM,	3AAN,	3AAO,	3AAQ,	3AAR,	3AAS,
	3AAT,	3AEA,	3AEO,	3AGA,	3AHO,	3AOO,	3APO
	3AQA,	3AQB,	3AQC,	3AQF,	3AQO,	3AQR,	3ARB,
	3ARC,	3ARD,	3ARH,	3ARJ,	3ARK,	3ARO,	3ARR,
	3ART,	3ARU,	3ARV,	3ARW,	3ARX,	3ARY,	3ARZ
	3ASD,	3ASO,	3AUB,	3BAD,	3BAE,	3BAM,	3BAO,
	3BAS,	3BBA,	3BBB,	3BBD,	3BBO,	3BBP,	3BBQ,
	3BBX,	3BUB,	3BUD,	3BUG,	3BVI,	3BVO	
	6BCA,	6BCB					
	7ABC,	7ABD,	7ABX,	7ACE,	7BAC,	7BAD,	7BAO,
	7BDA,	7BEO,	7CBB,	7DAB,	7DAC,	7DBD,	7DBG,
	7DBH,	7DBJ,	7DBL,	7DBP,	7DBT,	7DBZ,	7DCA,
	7DCD,	7DCJ,	7EAC,	7EAM,	7FAB,	7FAH,	7FBA,
7FBB,	7FCB,	7FCD,	7FCM,	7GFF			
III (Regional Forces)	3NAA,	3NAD,	3NAF,	3NBB,	3NDA,	3NDB,	3NDJ,
	3NDN,	3NDO,	7BEF				
IV (Popular Forces)	3NAB,	3NAC,	3NAE				

^aSome MAP elements in this group (e.g., 3BVO, 3BUB) include materiel for common support of the RVN Air Force, Navy, and Marine Corps. The exact amount cannot be determined but is surmised to be relatively insignificant according to knowledgeable US advisers.

The next steps, which can readily be programmed for a computer, are:

Step 2. Examine all records on the tape and disregard all those that (a) have no deliveries in the current fiscal year or (b) have MAP element identification codes that match those in Group I.

Step 3. Delete from all the remaining records all columns except 1, generic code (GEN); 2, Federal stock number (FSN); 3, nomenclature; 4, unit of issue (UI); 5, year to date delivery (YR TO DATE DELV), and 6, unit price.

Step 4. Sort modified records into an RVN Army file, a Regional Forces file, a Popular Forces file, and an error file. This is accomplished by matching MAP element identification codes in sequence within Groups II, III, and IV. The error file contains any MAP element code that does not match the codes in Groups II to IV. The contents of the error file, if any, are examined individually for disposition.

Step 5. For each file, (a) total for each FSN the numbers of items and the dollar values of current-year deliveries, (b) total for each generic code (first two characters) the dollar value of current deliveries, and (c) total of the dollar value of all current-year deliveries.

Alternative 2

This alternative relies on use of electronic accounting machine (EAM) cards and equipment to manipulate data extracted from the printed copy of the report. This method has been used successfully in past studies. The steps under this alternative are:

Step 1. Same as in Alternative 1.

Step 2. Same as in Alternative 1 for each line entry but done manually.

Step 3. Data from the remaining line entries are key-punched on standard 80-column EAM cards as shown in the accompanying tabulation:

Columns	Data items
1-4	MAP element code (ELEM)
6-8	Generic code (GEN)
10-44	Nomenclature
46-52	Unit price
54-61	Quantity
63-73	Dollar value
75-77	Page number of report

The page number of the report is recorded on each card to permit ready checking of the accuracy of the key-punching of line entries.

Step 4. The EAM cards obtained from the previous step are sorted, manually or by card sorter, into Groups II, III, and IV.

Step 5. The cards within each group are sorted first by generic codes and then within generic codes by Federal stock number (FSN). The final sorting is printed out by a lister.

Step 6. For each group listing, (a) total for each FSN the number of items (quantity) and the dollar value of current-year deliveries, (b) total for each generic code (first two characters) the dollar value of current deliveries, and (c) total the dollar value of all current-year deliveries.

Chapter 4

ALLOCATION OF AMMUNITION

GENERAL

Ammunition for the RVN Army, Regional Forces, and Popular Forces is furnished by the US Army through MASF procedures. Ammunition for the RVN armed forces is requisitioned on the basis of the total theater inventory of RVN weapons firing US Army-type ammunition. The data on ammunition deliveries are maintained by type of ammunition (generic code, nomenclature, number, and procurement cost) and not by recipient in terms of a specific RVN armed force. The pertinent report on supply of ammunition to the RVN forces by the US Army is listed in App A (document A7).

The procedures used for allocating ammunition to a specific RVN armed force are based on the following assumptions:

(a) Ammunition for a specific weapon is supplied at the same ratio as that at which those weapons are issued to each of the forces. For example, an M16 rifle held by the RVN Army receives the same number of rounds as an M16 rifle held by the Regional Forces.

(b) The depot stocks of serviceable weapons of any given type are to be issued to the various RVN armed forces in the same ratio as they are currently distributed. For example, assume that the inventory of weapon X is distributed as follows:

RVN Army	50
Regional Forces	30
Popular Forces	10
Marine Corps	10
Depot stocks	40

The percentage distribution of weapon X in the theater is therefore assumed to be:

RVN Army	50%
Regional Forces	30%
Popular Forces	10%
Marine Corps	10%

(c) The total receipts of ammunition by the RVN during a fiscal year are for support of the weapons inventory existing at the end of the fiscal year. For

example, the ammunition received by the RVN during FY68 is assumed to have been in support of the RVN armed forces weapons inventory as of 30 June 1968.

The general sequence for allocating ammunition is: (1) calculate the percentage distribution of weapons by RVN armed force, (2) group ammunition items by the weapons using the ammunition, and (3) apply the percentage for a given weapon obtained in step 1 to the appropriate group of ammunition items.

CALCULATION OF WEAPONS DISTRIBUTION

Weapons distribution is calculated on the basis of the data contained in the Status Report of Weapons (as of 30 June of the year of interest) published by the RVN, Ministry for National Defense, Office of the Chief of Ordnance, Major Item Supply Management Agency (MISMA). See App A, document A6, for details of this report and Annex A3 of App A for the translation of the column readings and terms used in the report.

The first step is to examine each entry in col 2 (nomenclature) of the report and to delete obsolete weapons from further consideration. Generally such weapons are of French manufacture with the bulk being held in depot stocks and only a few in the hands of the RVN armed forces.

The next step is to group the weapons by the type of ammunition they fire. The term "type of ammunition" as used here includes consideration not only of caliber but also of the method of packing. For example, .30-cal M1 rifles and .30-cal light machineguns both fire .30-cal ammunition. However, .30-cal ammunition is differentiated according to method of packing, e.g., in 8-rd clips (for M1 rifles) or linked (for machineguns). Table 12 shows the groupings of weapons by ammunition type (for those weapons not associated with a single type of ammunition) that have been used in past studies of resource allocations for RVN armed forces.

TABLE 12
Weapons and Associated Ammunition

Weapon	Ammunition
Rifles, AR15, M16	5.56-mm, all types
Carbines, all models	.30-cal carbine
Rifle, M1, .30-cal, all models	.30-cal, packed in 8-rd clips
Browning Automatic Rifle (BAR)	.30-cal, packed in cartons, 5-rd clips, and tracers
Machineguns, .30-cal, all models	.30-cal, linked
Pistols, .45-cal, and submachinegun, .45-cal	.45 cal
Rifle grenade launchers, all models	Rifle grenades

The next step is to determine the percentage of the weapons, by type, in the hands of the specific force under study. For example, the percentage of

.30-cal M1 rifles in the theater to be attributed to the RVN Army is determined as follows:

$$\frac{A(100)}{B}$$

where A = sum of all .30-cal M1 rifles in the hands of the RVN Army
(col 5 of the report)

B = sum of all .30-cal M1 rifles in the hands of the RVN armed forces
(col 17 of the report)

CALCULATION OF AMMUNITION ALLOCATIONS

Ammunition is allocated according to the previously calculated weapons distribution and the data contained in the Vietnam Army Ammunition Report (as of 30 June of the fiscal year of interest) published by the US Army Ammunition Procurement and Supply Agency (see App A, document A7).

The data on total deliveries (reimbursable and nonreimbursable) for the fiscal year shown in the Vietnam Army Ammunition Report are grouped by ammunition types as calculated in the preceding section. The weapons distribution percentage for a given force is applied to the sum of the appropriate ammunition grouping to determine the allocation of that ammunition type for the given force.

Some items listed in the Vietnam Army Ammunition Report cannot be directly related to weapons and must be allocated according to qualitative judgment. Fuzes and primers that are used in more than one kind of ammunition (cartridge) are allocated among the weapon types in proportion to the numbers of those cartridges in which they can be used. For example, assume that fuze MX2 can be used in either the 105-mm or 4.2-in. cartridge and that 4000 105-mm cartridges and 2000 4.2-in. cartridges were delivered in the fiscal year. In this example, one-third of the cost of the MX2 fuzes is included with the cost of the 4.2-in. cartridges and two-thirds with the cost of the 105-mm cartridges.

TABLE 13
Allocation^a of Hand Grenades and Other Items

Recipient	Hand grenades, percent	Other, percent
RVN Army	85	86
Regional Forces	3	3
Popular Forces	1	0
Air Force	2	2
Navy	2	
Marine Corps	7	7

^aThis allocation is based on informal guidance furnished by personnel of HQ MACV, Ordnance Advisory Division. Slightly different allocations were used in past studies.

Hand grenades, land mines, explosives, and miscellaneous items are allocated as shown in Table 13.

Chapter 5

ESTIMATION OF COSTS

GENERAL

This chapter describes a method for estimating the individual costs of the resources furnished to RVN Army, Regional Forces, and Popular Forces under the headings of materiel and maintenance, construction, training, military pay and allowances, and other expenses. The AID/DOD realignment program at times also furnishes resources under one or more of the headings listed. Projects covered by the AID/DOD program often change in both duration and content. The best single source on these projects and the resources furnished is the HQ MACV Comptroller (see document A5).

The method outlined in this chapter provides a further refinement of allocations data arrived at by methods described in preceding chapters. Other specific assumptions and rules are detailed in the applicable paragraphs.

MATERIEL AND MAINTENANCE

The costs included under this heading are for the materiel necessary to equip, operate, and maintain the forces studied and the maintenance of materiel after initial delivery to the RVN. It does not include the costs specifically associated with construction, training as previously defined, or military pay and personal allowances. Civilian pay and allowances under the technical service chapters of the derived RVN defense budgets are considered to be materiel costs.

Materiel

The total estimated cost of materiel is the sum of the costs of materiel from all sources contributed to the particular force studied plus the cost of supply operations for materiel received from offshore agencies. The accompanying tabulation shows the major sources of materiel for the forces shown.

Source	RVN Army	Regional Forces	Popular Forces
MASF program	x	x	x
RVN Defense Budget	x	x	x
US Army, Vietnam in-country support	x		

The allocation of MASF program resources among the RVN Army, Regional Forces, and Popular Forces was described in Chaps. 3 and 4. The MASF resources, other than ammunition, identified for each force must be further screened to eliminate materiel specifically designated for support of training activities or use at training installations. These items are identified by the appropriate associated MAP element codes. The complete listing of the MAP element codes is in the MAP Element Index (see App A, document A3). The costs of MASF material associated with training are included in the training costs discussed later in this chapter.

Generic codes M1 and M2 in the MASF program cover the costs of maintenance of materiel previously delivered to the RVN. The costs associated with generic code M3, if any, are considered to be materiel costs because they are incurred in putting materiel (originally purchased for other purposes) into condition for initial issue to the RVNAF.

A small part of the MASF program for the RVN Army consists of resources for consumables and minor equipment for the Regional Forces and Popular Forces and items of common supply for the RVN Navy, Air Force, and Marine Corps. The available data do not permit identifying in detail these resources, and their cost is a relatively insignificant portion of the total MASF program for materiel for the RVN Army.

The chapters of the RVN Defense Budget derived for each force as described in Chap. 2, pertaining to foodstuffs (5), transportation (6), ordnance (9), signal (10), engineer (11), quartermaster (12), and medical (13) are considered to cover materiel costs (numbers refer to chapters in the RVN Defense Budget). In fact, many of these costs are probably for maintenance but the available data do not permit such a breakout. Additionally, the costs involved usually represent less than 20 percent of the total RVN defense budget.

The cost of in-country support furnished by the USARV is allocated to the RVN Army. Some of this support may be furnished to the Regional Forces and Popular Forces. However, there are no data to identify this support and the total cost of such support is considered to be relatively insignificant.

The cost of supply operations is based on the factors described in "Policies and Procedures for Charging Accessorial and Administrative Costs" (see App A, document A11). Currently these factors total 15 percent of the acquisition cost as shown in the accompanying tabulation.

Category	Cost, percent
Packaging, handling, and crating	3.5
CONUS transportation	3.0
CONUS port loading and handling	2.5
Ocean transportation	6.0

It is assumed that there is no charge for the use of the US supply system (2 percent according to AR 37-8). The cost for supply operations is not charged to the cost of materiel furnished through the RVN Defense Budget or USARV in-country support.

Maintenance Costs

All maintenance costs are allocated to the RVN Army. The maintenance costs of the materiel of the Regional Forces and Popular Forces and common items of the Navy, Air Force, and Marine Corps cannot be identified from the available data and are probably relatively insignificant considering the inventory of the supported materiel.

The MASF maintenance costs for the RVN Army are identified under generic codes M1 (contract technical assistance) and M2 (repair and rehabilitation of military assistance equipment). In some cases, MASF costs under generic code N1 (contract technical service personnel) are more appropriately allocated to maintenance rather than to training. The determination depends on the qualifications and use of the contract technical service personnel.

The RVN Defense Budget covering costs of foreign technicians (Budget Chap. 21) should be examined to determine whether the technicians are involved primarily in maintenance activities or in training.

CONSTRUCTION

General

Construction costs also include maintenance of facilities, real estate operations, and rehabilitation of facilities and utilities. However, the comparable costs identified for training facilities and training installations are considered to be training costs. The costs of construction and rehabilitation are considered to be expended in the fiscal year in which the construction or rehabilitation starts.

The best single source of data on new construction and major rehabilitation costs funded through the RVN Budget and the US Military Assistance Program is the "Project Status Report" published bimonthly by the HQ MACV, Engineer Advisory Division (see document A8 in App A). The data contained in this report permit ready identification of the force for which the construction or rehabilitation is intended and the source of the funding (RVN Defense Budget or US military assistance funds). Currently 50 percent of the RVN Defense Budget for construction and major rehabilitation comes from US support funds.

Estimation of Construction Costs

The total cost of construction for each force concerned is the sum of the appropriate costs indicated in the "Project Status Report" (less cost for projects associated with training installations), and the costs indicated in the chapter in the appropriate derived RVN Defense Budget covering facilities maintenance (Budget Chap. 19 less Art. 2, Major Repairs). The expenditures under this article are covered in the "Project Status Report."

TRAINING

The total training cost of a particular force is the sum of the following for each force:

(1) Costs of materiel furnished through the MASF program for training activities and training installations.

(2) Costs of construction and rehabilitation of training installations.

(3) Derived RVN Defense Budget chapter on training (Budget Chap. 20).

(4) Costs of foreign technicians (not engaged in maintenance) contained in the RVN Defense Budget (Budget Chap. 21). Such costs, if any, are charged to the RVN Army.

(5) Costs of MASF offshore training (generic code N1), mobile training teams (generic code N2), certain contract technical service personnel (generic code N3), and other applicable training costs (generic code N7). Such costs, if any, are charged to the RVN Army.

The costs of materiel and construction for training are determined as indicated previously under "Materiel and Construction." The costs of MASF-funded training are contained in the "Military Assistance Training Program" report (see document A9 in App A). In the use of this report the costs of training RVN Air Force personnel (flight training) are deleted.

MILITARY PAY AND PERSONAL ALLOWANCES

Normally the total cost of military pay and personal allowances for a particular force is the sum of the costs in the chapters of the derived RVN Defense Budget as follows:

(1) Office, Ministry of National Defense (Budget Chap. 1)

(2) Officers' pay and allowances (Budget Chap. 2)

(3) Noncommissioned officers' and enlisted men's pay and allowances (Budget Chap. 3)

(4) Death gratuity (Budget Chap. 4)

(5) Foodstuffs (Budget Chap. 5)

Occasionally special programs may provide resources that can be considered as a form of military pay or personal allowance. One such program, no longer in effect, provided food allowances to Popular Forces personnel and their dependents.

OTHER EXPENSES

This heading covers all expenses not included under the other headings. In past studies, these expenses have included the costs from the chapters of the derived budgets listed below.

(1) Psychological warfare/civic action (Budget Chap. 14)

(2) Central agencies (Budget Chap. 16)

(3) Regional agencies (Budget Chap. 17)

(4) Social welfare (Budget Chap. 22)

(5) Legal claims (Budget Chap. 23)

(6) Special expenses (Budget Chap. 24)

(7) Chaplains (Budget Chap. 28)

(8) Political warfare general division (Budget Chap. 29)

Chapter 6

PLANNING FACTORS

GENERAL

This chapter describes the derivation of planning factors developed in the past resource allocation studies (Refs 1 to 5). These planning factors are designed for use in making initial estimates of resources requirements in situations comparable to that existing in the RVN, before experience can be obtained in the specific area and situation. The planning factors described here are not the only ones that can be developed from the data used in estimating the total resources for each force studied.

The strength figure used in the factors described below is the sum of both officer and enlisted personnel. Assigned strength rather than authorized strength is used. An alternative method, which has not been used in past studies, is to use authorized strength. The authorized strength figure will usually produce lower values for the planning factor concerned because authorized strength has usually been greater than assigned strength.

ANNUAL PER CAPITA COSTS

Annual per capita costs for a fiscal year are calculated by dividing the total cost of concern (such as total cost of support, total cost of material and maintenance, total cost of military pay and allowances) by the unweighted average monthly assigned strength of the force concerned during the fiscal year.

EQUIPMENT DENSITIES

Equipment densities for the types of equipment for which inventory status reports are available (documents A6, A24, and A25 in App A) are calculated from the number of items per 1000 assigned strength as of the date of the inventory (usually the end of a month).

AMMUNITION FACTORS

The ammunition factors developed in the previous studies have covered (1) numbers of rounds and cost, by significant type of ammunition, on a fiscal year per capita basis and (2) percent of total ammunition costs of significant types of ammunition, by fiscal year.

The fiscal year per capita number of rounds and costs, by significant type of ammunition, is determined by dividing the total delivery of the specific type of ammunition (number of rounds and costs) by the average assigned strength during the fiscal year. Artillery ammunition can be related as desired to the number either of tubes or divisions.

The percentage of total ammunition costs of significant types of ammunition is determined by dividing the total cost of each particular type of ammunition by the total cost of all types of ammunition.

In calculating ammunition factors the cost of supply operations should be added to the cost of the ammunition (see Chap. 5).

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INTRODUCTION

This appendix describes documents that are essential and helpful in estimating resource allocations for the RVN Army, Regional Forces, and Popular Forces. For convenience, the essential documents are listed in the following section. Documents that are considered helpful in providing greater understanding of the systems supporting the RVN Army, Regional Forces, and Popular Forces are listed in later sections. All documents are numbered sequentially for ready reference.

ESSENTIAL DOCUMENTS

A1. RVN Defense Budget

The RVN Defense Budget has a basic similarity to the US budget but uses the European designations of Chapters, Articles, and Items rather than programs, projects, and subprojects. At present there are 29 chapters in the RVN Defense Budget, each chapter being a separate category. Chapters are further divided into articles and items for delineation of detail. Some chapters have only one article and others have many. A list of the chapters, articles, and items in the 1969 RVN Defense Budget is in Annex A1 to this appendix. The budget is frequently changed after approval. Information on such changes and rates of fund expenditures is available from HQ USMACV, Office of the Comptroller, Vietnam Advisory Division. A method for conversion of this budget to a US fiscal-year basis and US dollar equivalents is described in Annex A2 of this appendix.

The report is published annually and covers a calendar year starting 1 January. The classification is CONFIDENTIAL, and it is available from HQ MACV, Office of the Comptroller, Vietnam Advisory Division.

A2. International Logistics Service Funded Report Program and Delivery (RCS:AMCIF118)Part III

This report reflects the current status of US Army MASF materiel and logistics services that have not yet been fully delivered as programmed. The deliveries reported, except for ammunition, are constructive deliveries. The report covers all countries in the US Army MASF program. The sequence of report elements is by country, generic code, Federal stock number (FSN), MAP element code, and program year. In addition the report contains a summary by country of quantity and value, by FSN, by generic grouping (first two characters),

and by program year. The report is a computer printout. A detailed listing and explanation of column abbreviations used in the report are in Annex A2 of the appendix.

The report is published monthly by the US Army International Logistics Center, PO Box 2745, Harrisburg, Pa., 17105. The report as of 30 June is a total for the fiscal year. The classification is CONFIDENTIAL. It is available at Department of the Army, Deputy Chief of Staff for Logistics (LOG PD-PPBB), (LOG SM-SDD&MSGAD); and Army Materiel Command, (AMCIL-G), (AMCMI-PA).

A3. MAP Element Index, PACOM S4

This document, for Vietnam, describes the MAP element codes in use in current MASF programs. The general scheme for assigning MAP element codes is outlined in the Military Assistance Manual, Part II, and AR 795-16, which are described in the section titled "Military Assistance Procedures."

The index is published by HQ PACOM (CINCPAC) and revised as required. It is classified SECRET, and is available at Department of the Army, Deputy Chief of Staff for Logistics (LOG-DIL).

A4. Report of Nonreimbursable Support Costs of RVNAF/ FWMAF (USARV Form 386, RCS AVHGF-11)

This report lists the dollar value and major generic code of material and services officially provided to the RVNAF in Vietnam from stocks and agencies controlled by USARV. The report covers all support and supplies funded by OMA, MPA, and PEMA. The data represent actual and estimated costs.

The report is consolidated and forwarded by the US Army Central Finance and Accounting Office, Vietnam, in accordance with HQ USARV Regulation 37-19. The classification is CONFIDENTIAL, and it is available at HQ USARV (Comptroller) and HQ USARPAC (Comptroller).

A5. Financial Administration-Financial Management of AID/ DOD Program Realignments for Support of Operations in Vietnam (HQ USMACV Directive 37-26)

This directive prescribes procedures for financial management of the AID/ DOD program realignment for support of operations in Vietnam. Specifically, the directive describes programs in effect and the specific procedures for programming of budgeting, funding, accounting, and reimbursement.

The directive is published by HQ USMACV (MACCO). It is unclassified, and it is available from HQ USMACV (Comptroller), HQ USARPAC (Comptroller), and Commanding Officer, Centralized Financial Management Agency, APO San Francisco 96558.

A6. Status Report of Weapons

This is a report on the inventory of weapons in the RVN armed forces. The data include holdings by the RVN Army, Regional Forces, Popular Forces, Navy, Air Force, and Marines; depot stocks; and overall losses and gains. The

report is in Vietnamese. Translations of column headings and major terms are in Annex A3 to this appendix.

The report is published monthly (as of the last day of the month) by the RVN Ministry for National Defense, Office of Chief of Ordnance (MISMA). The report usually appears about 4 months after the date of the report. Classification is CONFIDENTIAL. It is available at HQ USMACV J4, Ordnance Advisory Division.

A7. Vietnam Army Ammunition Report

A detailed listing of Army ammunition required, in transit, and delivered to Vietnam for all RVN armed forces only. The data include identification of the ammunition (by generic code, FSN, and nomenclature), amount, and dollar value. The report differentiates between new procurement (reimbursable) items and excess ammunition (nonreimbursable). The data contained in the report are cumulative by month within the fiscal year with the 30 June report representing the fiscal year totals. This report is the most authoritative source of data on US Army ammunition shipped to the RVN for RVN armed forces.

The reports are published monthly by the US Army Ammunition Procurement and Supply Agency. They are available at HQ Army Materiel Command, and are classified CONFIDENTIAL.

A8. Project Status Report, Engineer Advisory Division

This report provides a current listing and status of all construction projects in programs monitored by the Engineer Advisory Division of HQ USMACV J4, e.g., all those that involve use of US funds in either MCA funds or support of the RVN Defense Budget. The report is definitive on the status of each project, intended recipient, and source of funding. A complete explanation of the column headings and other symbols is provided. At present the report does not cover construction projects that are completely funded by the RVN or expenditures for maintenance of facilities.

This report is published bimonthly by HQ USMACV J4, Engineer Advisory Division. It is available at HQ USMACV J4, Engineer Advisory Division, and is unclassified.

A9. Military Assistance Training Program

This report is a computer printout covering all offshore training for the RVN Army funded by the US Army. The data in the report include number of personnel involved, type and cost of training, associated travel, and living allowances. The full text of the column headings of this report is given in Annex A4 of this appendix.

It is published annually (as of the end of the fiscal year) by the Department of the Army, Office of the Deputy Chief of Staff for Operations, Directorate of International and Civil Affairs, Foreign Military Training Division; it is classified CONFIDENTIAL. It is available at the above office and at the Office of the Secretary of Defense, International Security Affairs, Office of the Director of Military Assistance.

A10. Southeast Asia Statistical Tables

This publication contains quantitative data on personnel strengths and operational activities in the RVN. Specifically, it contains monthly data on total assigned strength and desertions for the RVN Army, Regional Forces, and Popular Forces; and monthly casualty data for Regional Forces and Popular Forces. Casualty data for the RVN Army are included in totals for Regional Forces (e.g., they include RVN Navy, Air Force, and Marines). The data are secondary source material but the primary sources are identified.

It is published monthly by the Office of the Deputy Assistant Secretary of Defense for Systems Analysis, Southeast Asia Programs. It is classified SECRET and is available at Department of the Army, Deputy Chief of Staff for Operations.

A11. Policies and Procedures for Charging Accessorial and Administrative Costs (AR 37-8)

This contains factors for estimating costs of supply operations to include transportation to first port in the RVN.

GENERAL DOCUMENTS

A12. HQ USMACV Command History

This annual publication contains an official account of activities and developments within the purview of the Commander, US Military Assistance Command, Vietnam, for the calendar year starting 1 January. It usually includes developments on force structure, equipment and organization, and command alignments that pertain to RVN armed forces. It frequently contains useful quantitative data.

Although published separately it is usually marked as "Appendix A to the CINCPAC Command History." The classification is TOP SECRET, and it is available at Department of the Army, Deputy Chief of Staff for Operations.

A13. Southeast Asia Analysis Report

The purpose of this report is to update and disseminate, for information and comment, studies of interest to those who are responsible for decision making or analysis related to the conflict in Southeast Asia. It frequently contains information and data pertinent to resource allocations for RVN forces and to force structure.

Classified SECRET, it is published monthly by the Office of the Deputy Assistant Secretary of Defense for Systems Analysis, Southeast Asia Programs, as an unofficial document, and is available at Department of the Army, Deputy Chief of Staff for Operations.

A14. Program Review and Analysis for RVNAF Progress

The purpose of this report is to measure the effectiveness of US MACV plans and programs designed to assist the RVN Joint General Staff in improving

the effectiveness of the RVNAF. It contains quantitative data on many aspects bearing on support of RVN forces.

It is published semiannually by HQ USMACV (MACJ341) and covers either the period 1 January-30 June or 1 July-31 December. Classification is SECRET. The report is available at Department of the Army, Deputy Chief of Staff for Operations, and at the Defense Documentation Center, Cameron Station, Va.

A15. Vietnam, Country Logistics Improvement Plan

This document describes a coordinated program of major objectives, courses of action, and defined tasks for improving the RVNAF logistics system. It contains excellent descriptions of the RVNAF logistics system, developments during the previous year, and plans for the immediate future.

It is published annually as of 1 July by HQ USMACV (MACJ46) and is classified CONFIDENTIAL. It is available at the Department of the Army, Deputy Chief of Staff for Logistics; at US Army Materiel Command; and at the US Army Command and General Staff College.

A16. Guide for Province and District Advisers, HQ USMACV

In addition to material related to the title, this publication contains background material on the organization and operations of the RVN armed forces with emphasis on the Regional Forces and Popular Forces. It contains many organization charts.

is published by HQ USMACV (MACCORDS-PP) and is available at Department of the Army, Deputy Chief of Staff for Operations and at most Army service schools. The current publication is dated 1 February 1968 and it is revised and updated at irregular intervals. It is unclassified.

A17. Fact Book J-3

This is a tabulation of varied quantitative data on friendly and enemy forces in the RVN and includes data on strengths and organizations.

It is revised at irregular intervals by HQ USMACV (MACJ311), as a working paper. The classification is SECRET. It is available at HQ USMACV.

A18. Support of RVNAF and FWMAF in Vietnam and Local Forces in Laos and Thailand (RCS DD-COMP(Q) 871)

This report is an estimate of OMA, PEMA, and MCA costs of support furnished to the RVN. The estimated costs are not divided to show support of the component RVN military forces.

The report is compiled quarterly by the Office, Comptroller of the Army (COMPT-B (FMO)), and is submitted to the Department of Defense. It is available at Office, Comptroller of the Army. The classification is CONFIDENTIAL.

MILITARY ASSISTANCE PROCEDURES

A19. Operating Instructions and Procedures for Grant Aid Military Assistance Programs (AR 795-16)

The methods and procedures are prescribed for carrying out the Military Assistance Program (Grant Aid) by agencies of the US Army. It is particularly oriented toward the functions performed by or in conjunction with automatic data processing equipment and the use of EAM cards as a means for interchange of data. The procedures prescribed in this publication are also used in MASF programs. This publication contains useful definitions and explanations of codes used in military assistance transactions.

A20. US Army Materiel and Service Support for RVNAF/FWMAF (AR 795-10)

This Army regulation prescribes the policies, procedures, and responsibilities governing the development of materiel requirements, programming, procurement, supply, and service support under the US Army military functions and military construction appropriations for the RVN armed forces and other Free World Military Assistance Forces supporting the RVN. This regulation is broad in nature. See USARPAC Reg 795-10, following.

A21. Military Service Support of RVNAF/FWMAF (USARPAC Reg 795-10)

This amplifies AR 795-10 as it pertains to responsibilities of HQ USARPAC and subordinate commands. It covers all aspects of military assistance except training support. It is available at Department of the Army, Deputy Chief of Staff for Logistics, and at US Army Materiel Command (International Logistics).

A22. Military Assistance Manual

This manual provides guidance and detailed procedures from the Office of the Secretary of Defense for planning and conducting military assistance. It is published in two parts. Part I, "Objectives," classified SECRET, provides guidance for preparing military assistance plans. Part II, classified FOR OFFICIAL USE ONLY, prescribes procedures for military assistance planning, programming, approval, funding, execution performance, and reporting, and for evaluation of program performance. Part II is applicable to MASF procedures for support of the RVN.

It is published by the Office of the Director of Military Assistance, Office of the Assistant Secretary of Defense (International Security Affairs), and is revised as required. It is available at Department of the Army, Deputy Chief of Staff for Military Operations, Deputy Chief of Staff for Logistics; and at US Army Materiel Command (International Logistics).

A23. Military Assistance Articles and Services List

Resource guidance for military assistance planning is presented in this document. It includes prices, supply source, lead time, and availability of articles and services. It is compiled on EAM cards but is also published in a printed copy, which is revised at irregular intervals.

It is published by the Office of the Director of Military Assistance, Office of the Assistant Secretary of Defense (International Security Affairs). The classification is FOR OFFICIAL USE ONLY. It is available at Department of the Army, Deputy Chief of Staff for Military Operations, Deputy Chief of Staff for Logistics; and at US Army Materiel Command (International Logistics).

MATERIAL AND MAINTENANCE DOCUMENTS

A24. Status Report of Vehicles

This inventory of vehicles in the RVN armed forces is published monthly in both Vietnamese and English. The data include holdings by the RVN Army, Regional Forces, Popular Forces, Navy, Air Force, and Marines and depot stocks.

The Vietnam Ministry for National Defense, Office of Chief of Ordnance (MISMA), compiles the report as of the last day of each month, but it usually appears about 4 months after that date. It is available at HQ USMACV J4, Ordnance Advisory Division, and it is unclassified.

A25 Signal Equipment Inventory Report (BAO CAO BC-003)

This report is a monthly inventory of signal items in the RVN armed forces. The data include holdings by the RVN Army, Regional Forces, Popular Forces, Navy, Air Force, and Marines; field depot stocks; and base depot stocks. The report is in Vietnamese, but line items are listed in English and by Federal stock number. Translations of column headings are in Annex A5 of this appendix.

Published monthly by the Chief Signal Officer of the RVN Army, the report usually appears about 6 months after the inventory date. The classification is CONFIDENTIAL. It is available at HQ USMACV J4, Signal Advisory Division.

A26. MACV Approved Maintenance Float and Attrition Factors

This report lists the approved maintenance float and attrition factors for material, except ammunition, supplied by the US for the RVNAF. Ordnance, engineer, signal, quartermaster, and medical items are covered.

The report is published by HQ MACV, MACJ46, and it is unclassified.

A27. USARPAC Summary of Support of RVNAF/FWMAF in Vietnam

This report summarizes, each fiscal year, the OMA obligations by budget programs, obligations by activity accounts (including OMF), and a supply status report in terms of dollars. All these summaries are by country and represent the aggregate of actual and statistically derived obligations. All data for the RVN are aggregated and no differentiation is made among the RVN Army, Regional Forces, and Popular Forces. Many of the data contained in this report are reported in greater and more useful detail in other reports listed in this section.

The report is an internal document prepared annually by HQ USARPAC (Comptroller). It is unclassified.

CONSTRUCTION DOCUMENTS

A28. Responsibilities, Procedures, and Standards of US-Supported Construction for the RVNAF (USMACV Directive 415-3)

A29. Military Construction for RVNAF and FWMAF (USMACV Directive 415-5)

These directives provide information on responsibilities and procedures for programming and executing construction and construction standards for the RVNAF.

Both directives are published by HQ USMACV (MACDC), and they are unclassified.

RVN FUNDING DOCUMENTS

A30. Handbook on the Vietnamese Defense Budget

The handbook contains background information relating to the RVN Defense Budget. It also includes information on US support of the Budget, formulation and execution of the Budget, and the Vietnamese financial management system.

It is periodically revised and usually republished as of 1 July each year by HQ USMACV, Office of the Comptroller, Vietnam Advisory Division, and it is unclassified.

A31. RVNAF Pay and Allowances

This is a detailed description of the RVNAF military pay and accounting system prepared primarily for advisers in the fields of finance and accounting. It contains tables giving average pay and allowances by grade for the major components of the RVNAF.

It is revised as required and published by HQ USMACV, Office of the Comptroller, VN Advisory Division; it is unclassified.

PERSONNEL DATA SOURCES

A32. HQ USMACV Strength Report, Vietnam (CINCPAC RCS 5314-1)

This provides detailed data on strengths (assigned and authorized) and locations of all US units and advisers in the RVN.

It is published monthly by HQ USMACV (MACJ12), and is classified SECRET. It is available at Department of the Army, Deputy Chief of Staff for Personnel.

A33. Southeast Asia Military Fact Books

This publication contains a variety of intelligence and operational data on the RVN, including the total assigned strength of each of the RVN combat forces and the total strength assigned to the RVN Army divisions. Not included in the publication but available are data on the total assigned strengths of the components of the RVN Army such as Rangers, airborne, armored, and Special Forces units.

These Fact Books are published semiannually by the Defense Intelligence Agency as of 1 January and 1 July. They are classified SECRET and are available at Department of the Army, Deputy Chief of Staff for Military Operations and Assistant Chief of Staff for Intelligence.

Annex A1

RVN DEFENSE BUDGET FORMAT, 1969*

Chapter	Article	Short title	Total	JS	VN
01		<u>OFC. MINISTER OF NAT. DEF. & WAR VETERANS</u>			
	1	Salaries & allowances			
	2	Reception expenses			
02		<u>OFFICERS' PAY AND ALLOWANCES</u>			
	1	Base pay, Regular			
	2	Common allowances, Regular			
	3	Special allowances, Regular			
	4	Differential pay, Regular			
	5	Travel allowance, Regular			
	6	Base pay, Regional			
	7	Common allowances, Regional			
	8	Special alws, Regional			
	9	Travel alw, Regional			
	10	Prov pay increase (Regular + Regional)			
03		<u>NCOS & EM'S PAY AND ALLOWANCES</u>			
	1	Base pay, Regular			
	2	Common alws, Regular			
	3	Special alws, Regular			
	4	Differential pay, Regular			
	5	Travel alw, Regular			
	6	Base pay, Regional			
	7	Common alws, Regional			
	8	Special alws, Regional			
	9	Travel alw, Regional			
	10	Pay, Popular			
	11	Travel alw, Popular			
	12	Prov pay increase (Regular + Regional)			
04		<u>DEATH GRATUITIES & DISABILITY ALW</u>			
	1	Regular			
	2	Regional & Popular			

*Abbreviations used here are as they appear in the RVN Defense Budget. "JS" (joint support) indicates the US support of the budget.

Annex A1 (continued)

Chapter	Article	Short title	Total	JS	VN
05		<u>SUBSISTENCE</u>			
	1	Special food alw			
	2	Subsistence for various type of pers			
06		<u>TRANSPORTATION</u>			
	1	Technical material			
	2	Common use items			
	3	Permanent civilian personnel			
	4	Temporary personnel			
	5	Operating expenses			
	6	Dock expenses			
	7	Transportation of personnel			
	8	Transportation of material			
07		<u>AIR FORCE</u>			
	1	Technical items			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses			
	6	Foreign flights			
	7	Air Force Training Center			
08		<u>NAVY</u>			
	1	Tech material			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses			
	6	Overseas expenses			
	7	Repairs outside Naval Shipyard			
	8	Training			
09		<u>ORDNANCE</u>			
	1	Tech equipment			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses			
10		<u>SIGNAL</u>			
	1	Tech equipment			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary personnel			
	5	Operating expenses			
	6	PTT services			
11		<u>ENGINEER SUPPLY</u>			
	1	Tech equipment			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary pers			
	5	Operating expenses			
	6	Utilities and sanitary fixtures			

Annex A1 (continued)

Chapter	Article	Short title	Total	JS	VN
12		<u>QUARTERMASTER</u>			
	1	Tech material			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses & bulk paper products			
	6	Office furniture and equipment			
	7	Quarters and mess furniture & equip			
	8	Individual clothing and equipment			
	9	Unit equipment			
	10	POL expenses			
	11	Admin food and operational rations			
13		<u>MEDICAL</u>			
	1	Pharmaceuticals & tech products			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses			
	6	Medical treatment costs, RVNAF			
	7	Medical treatment costs, RVNAF's dependents, civ pers & dependents			
	8	Expenses for feeding various types of pers			
15		<u>NAVAL SHIPYARD</u>			
	1	Tech items			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses			
	6	Foreign specialist			
	7	Junk construction			
	8	Technical training			
	9	Repairs outside Naval Shipyard			
16		<u>OPERATING EXPENSES OF CENTRAL AGENCIES</u>			
	1	Tech items			
	2	Common use items			
	3	Permanent civ pers			
	4	Temporary civ pers			
	5	Operating expenses			
	6	Publication expenses			
17		<u>OPERATING EXPENSES OF REGIONAL AGENCIES</u>			
	3	Permanent civ pers			
	4	Temporary pers			
	5	Operating expenses			
	6	Office supplies & printed forms for units			
	7	Unit Petty Cash Fund			
	8	Pay of prisoners of war			

Annex A1 (continued)

Chapter	Article	Short title	Total	JS	VN
18		<u>NEW CONSTRUCTION & FACILITIES MAINT.</u>			
	1.	Army			
	2	Navy and Marine			
	3	Air Force			
	4	RF construction			
	5	PF construction			
	6	Construction & maint. of LOC			
	7	Dependent housing			
	8	Minor new construction			
	9	Major rehabilitation			
	10	Routine maintenance			
19		<u>REAL ESTATE</u>			
	1	Real estate purchase - RVNAF			
	2	Real estate indemnification - RVNAF			
	3	Rentals - RVNAF			
	4	Real estate purchase, Free World Force			
	5	Real estate rental, Free World Forces			
20		<u>TRAINING SUPPORT</u>			
	1	RVNAF training			
	2	Military ceremonies			
	3	Schools and training centers			
	4	Publication of trng literature			
	5	Training support activities			
21		<u>FOREIGN TECHNICIANS</u>			
	1	In-country expenses for Philippine technicians working for the VN Army			
22		<u>SOCIAL SERVICE DEPARTMENT</u>			
	1	Expenditure for social operation			
23		<u>TRIAL COSTS & CIVIL REPARATIONS</u>			
	1	Trial costs			
	2	Civil reparations			
24		<u>SPECIAL EXPENSES</u>			
	1	Pacification fund			
26		<u>MACV EXPENSES (AIK)</u>			
	1	MACV expenses			
28		<u>CHAPLAINS OPERATING EXPENSES</u>			
	1	Buddhist chaplain			
	2	Catholic chaplain			
	3	Protestant chaplain			
29		<u>GENERAL POLITICAL WARFARE</u>			
	1	Tech items			
	3	Permanent pers			
	4	Temporary pers			
	5	Operating expenses			
	6	Political warfare college			
	7	Sport department			
	8	Polwar operating expense			

Annex A1 (continued)

Chapter	Article	Short title	Total	JS	VN
	9	MILCAP			
	10	Herbicide program			
30		<u>DIRECTORATE GENERAL OF WAR</u>			
		<u>VETERANS</u>			
	1	Pay and alws of civ pers			
	3	Operating materials & services			
	5	Pensions and gratuities			
		GRAND TOTAL			

Annex A2

COLUMN HEADINGS IN
 "INTERNATIONAL LOGISTICS SERVICE FUNDED REPORT PROGRAM
 AND DELIVERY (RCS: AMCIL-118) - PART III"

Column head abbreviation	Description	Definition and/or source
CC	Country code	Part II, Military Assistance Manual, Chap. 7, Sec C, Para P
GEN	Generic code	Part II, Military Assistance Manual, Chap. 7, Sec C, Para O: AR 795-16, Para 4-19, Chap. 4
FSN	Federal stock number	Self-explanatory
NOMENCLATURE	Item description	Self-explanatory
RCN	Record control number	Part II, Military Assistance Manual, Chap. 7, Sec C, Para W
ELEM	MAP element	AR 795-16, Para 4-27, Chap. 4
MRI	Material routing identifier	AR 795-16, Para 4-51, Chap. 4
SC	Subordinate Command	AR 795-16, Para 4-26, Chap. 4
IC	In Country User	AR 725-50
UI	Unit of Issue	Self-explanatory
PY	Program Year	Self-explanatory
PRIOR YR DELV	—	Reflects delivery data reported in prior fiscal year
SS	Source of Supply	AR 795-16, Para 4-50, Chap. 4, Part II, Military Assistance Manual, Chap. 7, Sec C, Para X
CM	Commitment Code	AR 795-16, Para 4-10, Chap. 4
TA	Type of Assistance	AR 795-16, Para 4-58, Chap. 4
FC	Fund Appropriation Code	AR 795-15, Para 4-18, Chap. 4
YR TO DATE DELV	—	Reflects current fiscal year delivery data from 1 July to 30 June
UNIT PRICE CURRENT	—	AR 795-16, Para 4-61, Chap. 4
UND BAL	—	Self-explanatory
PROGRAM	—	Self-explanatory

Annex A3

TRANSLATION OF COLUMN HEADINGS AND SIGNIFICANT TERMS
USED IN "STATUS REPORT OF WEAPONS"

Pages marked "Status Report of Weapons, Artillery, Instruments"

Column number	Vietnamese	English
1	Am so	Line number
2	Chi Danh Quan-Dung	Nomenclature
3	Xuat xu	Attrition stock on hand
4	Cap so	TOE/TA authorization
5 - 8	LUU-DUNG	On hand
5	Luc Quan	Army
6	Hai Quan	Navy
7	Khong Quan	Air Force
8	T. Quan L. Chien	Marine Corps
9 - 10	DAP. QUAN	REGIONAL FORCES
9	B.C.S.	TOE authorization
10	L.D.	On hand
11 - 12	NGHIA-QUAN	POPULAR FORCES
11	B.C.S.	TOE authorization
12	L.D.	On hand
13 - 14	AP TAN-SINH	NEW LIFE HAMLETS
13	B.C.S.	
14	L.D.	
15	Quan dung Non-MAP	Non-MAP material
16	Dan di chuyen	In transit
17	Cong luu-dung	Total on hand
18 - 20	DU-TRU	DEPOT STOCK
18	Tot	Serviceable
19	Xau	Unserviceable
19	CPT	Awaiting salvage
20	Cong	Total
21 - 22	SO LUONG	QUANTITY
21	Trong Thang	Total this month
22	Thang truoc	Total last month
23	CUOC CHU	Remarks

Nomenclature (column 2)

Line number	Vietnamese	English
1	SUNG LUC	PISTOLS, all types
2	CARBINE	CARBINES
3	SUNG TRUONG	Rifles, all types
4	SUNG SAN	Shotgun
5	TIEU LIEN	Submachinegun
6	TRUNG LIEN	Automatic rifles
7	DAI LIEN	Machinegun
8	PHONG HOA TIEN	Rocket launcher
9	SUNG PHUN LUA	Flamethrowers
10	PHONG LUU	Grenade launcher
11	SUNG LUC BAO HIEU & SUNG BAN HOA CHAU	Pistol, pyrotechnic

*See App A, document A6.

Annex A3 (continued)

Line number	Vietnamese	English
12	LUOI LE	Bayonets
13	CHAN SUNG	Machinegun mounts
14	SUNG COI	Mortars
15	DAI BAC 20LY	20-mm gun
16	DAI BAC 37LY	37-mm gun
17	DAI BAC 57LY	57-mm gun
18	DAI BAC 75LY	75-mm gun (howitzer)
19	DAI BAC 105LY	105-mm howitzer
20	DAI BAC 155LY	155-mm howitzer
21	DAI BAC 106LY	106-mm recoilless rifle
22	DAI BAC LINH-TINH	
24	DAI BAN	Compass
25	ONG DOM	Binocular
26	VIEN KINH	Periscopes and telescopes (all kinds)
27	KINH NGAM	Artillery instrument (all kinds) and periscope mounts
28	MAY NGAM	Mortar instrument (sight)
29	DONG HO	Watches
30	HOA-XA-HAO-TA-BIEU	Graphic Firing Table
31	QUANG CU LINH TINH	Miscellaneous instruments
32	LO PHA HUY	Demolition sets

Pages marked "BANG TANG GIAM" (Recapitulation of Gains and Losses)
(Translation of unnumbered column headings)

Vietnamese	English
So thur tyr	Line number
CHI DANH	Nomenclature
SO LUONG	Quantity last month
TANG	Gain
LY DO TANG	Reason for gain
MVT	Issued from MAP
GIAM	Loss
LY DO GIAM	Reason for loss
Ton that trong thang	Lost during month
Phe thai BBPT	Salvage, salvage report

Pages marked "BANG TONG KET VU KHI NHE TINH DEN NGAY" (Recapitulation of
Small Arms through Date)
(Translation of unnumbered column headings)

Vietnamese	English
CHI DANH QUAN DUNG	Nomenclature
BANK CAP SO	TOE
C.L.Q.	Army (Regular)
D.P.Q.	Regional Forces
N.Q.	Popular Forces
ATS	New Life hamlet
CONG	Total

Annex A3 (continued)

Line number	Vietnamese	English
	LUU DUNG	on hand
	Non-MAP	Non-MAP
	Dang di chuyen	In transit
	CONG	Total
	DU THRU	Depot stock
	Tot	Serviceable
	SAU	Unserviceable
	CPT	Awaiting salvage
	CONG	Total
	TONG SO	Total
	Trong thang	This month
	Thang truoc	Last month

Pages marked "BANG TONG-KET TRONG PHAO TINH DEN NGAY" (Recapitulation of Artillery through Date)

(Translation of unnumbered column headings)

Vietnamese	English
SO thur tyr	Line number
CHI DANH QUAN-DUNG	Nomenclature
CAP SO	TOE/TA
LUU DUNG	On hand
DU-TRG	Depot stock
Dung duroc	Used
Khong dung duroc	Non-used
Cong	Total
SO LUONG	Quantity last month
Trong thang	This month
Thang truoc	Last month
SAI-BIET	Difference
CONG	Gain
Tru	Loss
CUOC-CHU	Remarks

Annex A4

MILITARY ASSISTANCE TRAINING PROGRAM

This report is prescribed by the Military Assistance Manual*

Column heading	Full definition and source of data
CC	Card code signifies the type of EAM card being processed
RCN	Record Control Number is assigned by the Unified Command
MA FC	Code to facilitate machine identification and processing

*See document A22 in App A.

Annex A4 (continued)

Column heading	Full definition and source of data
GRCL	Group and class code punch data exactly as they appear in the Military Assistance Articles and Services List. "Group" identifies training and "class" the major functional area of training
ITEM ID	Item identification number, a seven-digit number, is used to identify each specific training item available for military assistance
GC	Generic code, a three-digit code assigned in the Military Assistance Articles and Services List (MASL) to classify Military Assistance articles and services according to the budget activity/project account classification
DESCRIPTION	Nomenclature that specifies line item of training available
UI	Unit of issue enter electronic accounting for student training, mobile training teams: detachments and contractor technical services personnel
C	Commitment code describes the US commitment by type for each article and service programmed
M	
RE	Student code designating the civilian or military category of students
QTY	Quantity of students or, in the case of teams, the number of personnel on the team
P	Program originator code identifies the Military Assistance Advisory Group element corresponding to the country using service with reference to cross-service training, the country using service rather than the US military service providing the training
O	
CC	Country codes
CRT	Duration code when it is variable: punch duration by student-weeks, team-man-weeks, contractor technical service personnel man-months; also type of assistance code used to identify service-funded FWMAF training
UOA	
UNIT PRICE	MAP unit price dollar value per student from the MASL
CDP	Cost code, expenditure year, and program year code. Cost codes identify the program cost categories; expenditure year is the fiscal year in which the major part of the training is to be performed; and program year is the fiscal year in which the item is programmed
SYT	
MAP	MAP element code is four-digit code identifying the MAP element for which requirements are programmed
ELEM	
LSCCI	Travel and living allowance cost code for each student or team member. See Tables I to IV of the MASL Foreword
TPLNA	
S	Status code used by Office of the Secretary of Defense to indicate approval, funding, or deferral action
T	
DE	Deferral priority applicable to unified commands only
PR	

Annex A4 (continued)

Column heading	Full definition and source of data
IS S PRRDDS	The worksheet control number assigned to the item in the training requirement worksheet submitted to the executing agency
MRI	Execution agency identifier code, a three-digit code used with training program lines to identify the military department providing training; the funding, command, or agency; and the school or training activity at which training is expected to be performed
CSEC OYUR	Continuing resolution authority codes indicate the amount of continuing resolution funds required to preclude disruption of essential activities of a continuing nature
COST	This is the total cost to nearest dollar (travel and living allowance cost plus MAP unit cost times quantity)

Annex A5

TRANSLATION OF COLUMN HEADINGS OF "SIGNAL EQUIPMENT
INVENTORY REPORT (BAO CAO BC-003)"

Column number	Vietnamese	English
3	Am So	Line number
4	Chi Danh Quan Dung	Nomenclature
5	Luc Quan	Army
6	Khong Quan	Air Force
7	Hai Quan	Navy
8	Dp Quan	Regional Forces
9	Nghia Quan	Popular Forces
10	Cong Bos	Authorized
11	Cong Lo	On-hand units
12	Dtru Khodc	Signal field depots
13	Dtru Kho Tu	60th Signal Depot stock
14	Hu Hong	Reserve and attrition
15	Di Chuyen	In transit
16	Cho Nhap	Due in
17	Tong Cong	Grand total

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<p>This document describes methods and source documents required to estimate historical total resource allocations in support of the Republic of Vietnam (RVN) Army, Regional Forces, and Popular Forces and to derive planning factors from such allocations. The methods described cover all known US and RVN sources and provide for estimating the total resources provided for each force by US fiscal year in terms of costs of materiel delivered, maintenance of materiel, construction and maintenance of facilities, pay and allowances, and miscellaneous activities and agencies. The methods do not provide for differentiating between investment costs and operating costs, or for identifying US Army funding sources in terms of budget programs.</p>		

14. KEY WORDS	LINK A		LINK B		LINK C	
	ROLE	WT	ROLE	WT	ROLE	WT
allocation methods cost analysis methods counterinsurgency costs counterinsurgency resource allocations military assistance Popular Forces Regional Forces RVN Army US support of RVN Vietnam costs						