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VARIABLE COSTING

AS A MANAGERIAL TOOL

by

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I dedicate my thesis  
to my father, Prof.M.Kemal ÖZTUNÇ.



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## VARIABLE COSTING AS A MANAGERIAL TOOL

In this study, the relationships between the method of cost accounting, the pattern of classification of costs, the preparation of financial reports, the managerial decision making, and the performance of companies are examined. With the general fact that effective managerial decision making leads to managerial and company success, the variables that will enforce effectiveness are explored in this work.

Textile industry of Turkey is chosen as the sample and the data collection method consisted of the questionnaires and interviews by the sampled companies' top managers, and financial data gathered by the Chamber of Industry of Istanbul. The statistical methods employed in the research are one-way frequency distribution, joint-frequency distribution, Pearson correlations and Discriminant analysis.

The results have showed that the employment of computer in the operations of the company has direct relationship with the classification of costs as variable and fixed costs, the application of variable costing in internal reporting, the usefulness of balance sheet and income statement in long-term planning, short-term planning, in pricing and purchasing decisions and the usage of ratio analysis for the evaluation of the company performance. Direct relation-

ships have also been observed between the application of variable costing, the usage of breakeven analysis in managerial decision making, the classification of costs, the usefulness of balance sheet and income statement in long-term planning, investment decisions, and the usage of ratio analysis in evaluations.



## YÖNETİCİLİK TEKNİĞİ OLARAK DEĞİŞKEN MALİYET SİSTEMİ

Bu çalışmada, maliyet sistemleri, maliyetlerin tasnifi, mali raporların hazırlanması, karar verme modelleri ve şirketlerin icraatları arasındaki ilişkiler araştırılmıştır. Yöneticinin etkin karar vermesinin şirketin başarısına yardımcı olduğu düşüncesiyle, yöneticinin karar vermesine etken değişkenler incelenmiştir.

Bu amaçla, Türkiye Tekstil Endüstrisi araştırmanın örneği olarak seçilmiş ve bilgi toplama tekniği olarak anket, yöneticilerle görüşme ve İstanbul Sanayi Odası'nın hazırladığı bilgiler kullanılmıştır. Sonuçların değerlendirilmesi için Ki-Kare İlgili analizi, Pearson Korelasyon analizi ve Discriminant analizi istatistik tekniklerinden yararlanılmıştır.

Sonuçta, şirketlerin bilgisayar kullanmalarının maliyetlerin sabit ve değişken olarak tasnifi, şirket içi raporlamada değişken maliyet sisteminin uygulanması, bilanço ve kâr-zarar tablolarının uzun ve kısa vadeli planlamada, fiyat tesbiti ve satın alma kararlarına yardımcı olması, oran analizinin şirketin faaliyetlerinin sonuçlarının değerlendirilmesinde kullanılması ile doğrusal ilişki olduğu görülmüştür. Ayrıca, değişken maliyet sistemi uygulaması, başbaşa analizinin karar verme modelinde kullanılması, maliyetlerin tasnifi, bilanço ve kâr-zarar tablolarının uzun va-

deli planlama ve yatırım kararlarına yardımcı olması ve oran analizinin uygulanması arasında ilişkiler bulunmuştur.

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## I. INTRODUCTION

### A. Costing Systems

Cost accounting is considered as the key managerial partner in the planning and control activities, furnishing management with the necessary accounting tools to plan, control and evaluate operations. The objectives of modern cost accounting are to aid and participate in the creation and execution of plans and budgets, to provide information to management related with problems that involve choice from among two or more alternative courses, to establish methods and procedures that permit control and reduction or improvement of costs, to create inventory values for costing and pricing purposes, and to determine costs and profit for an accounting period.

Cost data are accumulated under either periodic cost accumulation or perpetual cost accumulation systems. Periodic cost accumulation systems provide only limited cost information during a period and require quarterly or year end adjustments to arrive at the cost of goods produced. Periodic physical inventories are taken to adjust inventory accounts to arrive at the cost of goods produced. This system of cost accumulation is not considered a complete and efficient cost accumulation since the costs of work-in-process and finished goods can only be determined after physical inventories are taken into account. Periodic cost accumulation systems are generally used by small manufacturing firms where control of physical inventories is not that much difficult. Perpetual cost accumulation systems accumulate cost data through work-

in-process account in such a way that provides continuous information about work-in-process, finished goods, and cost of goods produced.

All cost accumulation systems accumulate actual cost data, some also record standard costs. Cost determination may be on a historical or a predetermined basis. Under historical systems, costs are accumulated as they occur. On a predetermined, budgeted, or standard system, costs are determined in advance and variations from the standard costs are accumulated in separate accounts so that management is able to make plans and take corrective actions.

Job order costing and Process costing are types of perpetual cost accumulation systems. Costs under job order costing system are accumulated by jobs. This method is suitable when each job or order is unique. Costs under process costing system are accumulated by departments, where production is on a more or less continuous basis.

Depending on the charge of factory overhead to products, costing systems are classified as full costing or absorption costing and direct costing or variable costing. Under absorption costing all factory overhead costs, both variable and fixed, are charged to product costs. Under variable costing, only the variable portion of overhead costs are charged to product costs.

#### B. Variable Costing and Absorption Costing

Absorption costing assigns direct materials and direct labor costs and a share of both fixed and variable factory

overhead to units of production. Variable costing, assumes that for proper managerial control, only those costs which vary directly with the volume of production should be considered as part of the cost of goods manufactured, because only variable cost elements are related to the product. That is only direct materials, direct labor, and variable factory overhead are included in inventory and hence are considered as product costs. Fixed factory overhead, under variable costing method is not included in inventory and thereby, is considered as period cost.

In matching cost and revenue to determine income of the period, conventional costing methods distinguish between manufacturing and nonmanufacturing costs. In these systems, the product absorbs manufacturing overhead costs. In variable costing, the distinction is made between variable and fixed costs.

Financial reports under two costing systems differ in some ways. Since fixed manufacturing costs are not included in the product cost in variable costing, cost of production, cost of goods sold and cost of inventory are higher in absorption costing.

Gross profit of absorption costing varies considerably from the gross contribution margin of variable costing. The gross contribution margin, difference of sales revenue and variable manufacturing costs, is greater than the gross profit. The margin varies directly with the sales volume if fixed and variable costs are stable within the relevant range. Hence, an increase in sales volume, without a change in sales price, will result in a proportional increase in gross

contribution margin. However, the gross profit of absorption costing does not respond in the same proportion to the changes in sales volume, leading to the criticism of absorption costing that this result appears most unrealistic and confuses management in its attempt to understand and analyze the financial statements, and does not enable management to make use of sensitivity analysis.

The difference between the amount of net income of any accounting period computed by absorption costing and variable costing will be equal to the change in the amount of period costs deferred in inventory. Both methods, actually, will result in identical amounts of total net income over a complete cycle of inventory build-up and liquidation.

If inventory of manufactured goods does not fluctuate from period to period, net income under two costing systems will be identical. When production exceeds sales causing inventories to increase, net income will be higher under absorption costing because inventory includes a portion of the period costs, whereas under variable costing all period costs are written off.

When sales exceed production causing inventories to decrease, net income will be lower in absorption costing. The entire difference of income under two costing methods can be explained by the amount of fixed overhead that is charged to the beginning and ending inventories.

### C. Application and General Acceptance of Costing Systems

The National Association of Accountants in U.S.A. has long favored the use of variable costing and as far back

as 1936 issued research reports and publications pointing out the advantages of the costing method. The Financial Executives Institute through its Financial Executives Foundation reports that a growing number of companies in U.S.A. are using variable costing method. The rapid expansion of work of many CPA and consultant firms' management services divisions is due in significant part to the installation of variable costing systems. In fact, for many years, companies employing conventional costing systems, have made analysis of variable and fixed costs and have made break-even, contribution margin analysis. However, this data required special studies since the information was not readily available in the accounts as it is in variable costing. The principal disadvantage of variable costing is its lack of acceptance for external reporting. In U.S.A., the system is not accepted by the predecessor of the Financial Accounting Standards Board, the American Institute of Certified Public Accountants, The Internal Revenue Service, and the Securities and Exchange Commission. They have not recognized variable costing as generally acceptable for inventory valuation purposes, for external reports, or for tax purposes.

The Internal Revenue Service in its regulations defines inventory cost to include "raw materials and supplies entering into or consumed in connection with the product, expenditures for direct labor, and indirect expenses incident to and necessary for the production of the particular item." The inclusion of indirect expenses means that period costs are included in inventory valuation which are excluded in variable costing method.



Section 471 of the Internal Revenue Code provides two facts to which "each inventory must conform: (1) it must conform as nearly as possible to the best accounting practice in the trade or business and (2) it must clearly reflect income." The regulations also provide that consistency in inventory practice be given greater weight than is given to any particular method of inventory costing so long as the method used is in accord with the regulations. A 1973 Amendment to Section 471 specifically identifies the variable costing method as "not in accord with the regulations."

The position of the American Institute of Certified Public Accountants toward variable costing for external reporting is unfavorable. The basis for this position is Accounting Research Bulletin No.43, issued by AICPA. Its "Inventory Pricing" chapter starts with the emphasis on "a major objective of accounting for inventories is the proper determination of income through the process of matching appropriate costs and revenues." The Bulletin continues by stating that "the primary basis of accounting for inventories is cost, which has been defined generally as the price paid or consideration given to acquire an asset". As applied to inventories, cost means in principle the sum of the applicable expenditures and charges directly or indirectly incurred in bringing an article to its existing condition and location. It should also be recognized that the exclusion of all overheads from inventory costs does not constitute an accepted accounting procedure. Bulletin also states that "under some circumstances, items such as the facility expense, excessive spoilage, double freight and handling costs may be so abnormal

as to require special treatment as current period changes rather than as a portion of inventory cost."

The Securities and Exchange Commission in U.S.A. refuses to accept variable costing method as a result of its policy to favor consistency among reporting companies as far as possible and its attitude that variable costing is not a generally accepted accounting procedure<sup>(1)</sup>.

The section 275 of Vergi Usul Code in Turkey, defines cost of production as "to include the cost of raw material that go into production, direct labor costs, and factory overhead that will be allocated to the product cost. General administrative and financial expenses, if preferred can be included in costs of production. And, if the product is to be sold in a package, packaging and package expenses are to be included in production costs." The same code specifies factory overhead as "indirect materials, energy and fuel oil, depreciation expenses of plant, equipment, rent, maintenance and repair expenses, laboratory expenses, scrap and spoilage expenses." So, the Code clearly points out that the variable costing method is not accepted for external reporting. However, the last section of the code specifies that as long as the company is in accord with the code, it can employ any kind of technique to find out production costs. That means, companies can classify the costs and assign cost centers as they prefer, and can use any allocation technique to assign costs to cost centers and products.

Capital Marketing Commission in Turkey has revealed the standard financial reports in the Official journal no. 17958, Feb. 2, 1983. The Commission defines cost of goods

sold as the sum of raw material usage, direct labor, general production expenses, work-in-process usage, difference in finished goods, packaging expenses, a portion from general administration expenses, and financial expenses related to production activities. General production expenses cover rent, depreciation, energy, heat, insurance, repair expenses related to production and indirect material. Gross profit or loss is found by deduction of cost of goods sold and selling expenses and taxes from the sales figure.

General administration expenses, financial expenses, other income or loss are deducted from the gross profit figure to come up to net profit before taxes.

This type of standard presentation of reports groups income and expenses according to their functions<sup>(2)</sup>. Those costs which are related to production whether variable or fixed are charged to cost of goods sold. Period costs such as packaging and selling expenses and taxes are considered in analyzing gross profit.

The view is to charge all costs that contribute to production and sales activities which prohibits the user of the report to make analysis that could be done in variable costing reporting system.

The fact that variable costing is not accepted by the code and commission, does not mean that statements and reports prepared under variable costing are not useful. A company may prepare both variable costing and absorption costing income statements according to the user of the reports. The preparation of numerous types of reports is possible at rapid speed and at low cost with computers of today.

The application of variable costing for internal reporting purposes has gained great emphasis in last few years since it is more suitable for management needs for planning, control, and decision making. It is useful in evaluating performance and provides ready information for the important cost, volume, and profit relations.

## II. THE CLASSIFICATION OF COSTS

### A. General Classification

Costs may be classified in many ways. There is no single best classification scheme. Some classifications useful for recording costs as well as for decision making are:

- (a) Responsibility (division, plant, department).
- (b) Job, Process, and Product.
- (c) Direct and Indirect Costs.
- (d) Fixed and Variable Costs.
- (e) Natural and Functional Classification.

The recording of costs by division or by plant is necessary with multidivisional or multiplant organizations. The objective of classification of costs in this manner is to establish the responsibility for the cost, so that costs are to be controlled.

Manufacturing costs may be accumulated by job, manufacturing process, or by type of product. These are usually referred to as systems namely Job order costing or Process costing systems.

Certain costs are incurred for specific purposes and can be identified with specific departments, products, or processes. These are direct costs. Costs that cannot be easily identified with a product or process are called indirect costs.

Costs can also be classified as to their variation with changes in activity level, as variable and fixed.

The classification not usually used for recording purposes but commonly used for decision making are:

- (a) Out-of-pocket Costs and Sunk Costs.
- (b) Relevant Costs.
- (c) Opportunity Costs.
- (d) Marginal Costs.

Out-of-pocket costs require the utilization of current resources. Sunk costs are those costs for which the expenditure of cash or the incurring of a liability has already taken place. A relevant cost is a cost whose magnitude will be affected by a decision being made. Sunk costs are never relevant costs. Out-of-pocket costs may be relevant costs depending on the nature of decision. Opportunity costs are always relevant to decisions.

#### B. Direct and Indirect Costs

Direct Costs which are incurred for specific purposes and can be identified with specific departments, products, or processes are broken down into direct labor and direct material. Costs that cannot be easily identified with a product or process such as heating the factory building are indirect costs.

The borderline between direct costs and indirect costs often depends on the frame of reference. The salary of a foreman may be a direct cost since it can be directly and easily identified with a specific department. But if that department produces several products, the salary will be an indirect cost when determining the cost of each product is of interest. Also, a physical component of the product being made may have a small unit value, negligible amount,

and the cost of treating the item as a direct cost may be excessive when compared with the benefit gained. For decision making purposes, the classification of costs as direct and indirect is not very useful. An indirect cost may be just as relevant as a direct cost in making a decision. The indirect cost may be variable and out-of-pocket, or it may be a fixed cost and sunk such as factory building depreciation. Thus, to describe a cost as being indirect cost enables the information that it cannot be directly and easily identified with the end product. Above all, it is up to management to classify most of the costs as direct or indirect since the borderline is not that much clear cut.

### C. Fixed and Variable Costs

Within a relevant range, costs are broadly categorized as fixed costs and variable costs. Not every cost is either completely variable or completely fixed. Certain costs behave as mixed costs. These mixed costs increase with increases in the activity level, but do not increase in a strictly proportional manner. Some mixed costs increase only when certain activity levels are attained, otherwise it is a fixed cost.

In order for management to evaluate changes in costs in light of changes in activity levels, it becomes necessary for management to determine which costs are variable and which are fixed. Mixed costs and step costs are generally categorized into fixed and variable cost components. Such a division of these mixed and semifixed costs results in an

oversimplification of the behavior of some of these costs. Such cost procedure can entirely obscure such cost behavior patterns that can result from quantity usage discounts or other nonlinear cost behaviors.

The problems involved in incorporating all of the possible cost behavior types into a cost analysis are usually greater than the benefits to be obtained from such a fine distinction and that use of many different cost behavior classifications can be disadvantageous for analysis and control purposes.

Several methods such as the high-low method, the scattergraph or visual inspection, the Least squares regression method are widely used for determining the behavior patterns of various costs. The management must take into account the assumptions of these methods and use these costs as reasonably accurate estimates of cost behavior patterns in cost analysis.

Regardless of the method used to estimate fixed and variable costs, the results provide only estimates of each component. Changes that take place overtime and from one product to another can affect the relationships between fixed and variable cost components. However, to the extent that better management decisions can result from a better estimate of cost behavior patterns, then efforts should be directed towards providing the best estimates possible consistent with the need to obtain such estimates at a reasonable price.



### III. COSTING SYSTEMS AND MANAGEMENT DECISION MAKING

#### A. Management Decision Making Process

One of the management's functions is to determine the present position of the firm and plan its future needs. Financial statements provide data of the company's performance. Financial analysis indicates the firm's strengths and weaknesses. From the present position of the firm, plans can be determined for the future.

Financial statements provide information needed for analysis. They summarize company transactions over a period of time and serve as a report on management's effectiveness. They may reveal shortcomings in control or indicate major areas for changes in corporate policy.

Management must make effective use of the capital at its command. The essence of effective management is good forecasting because decisions depend upon the expectation of the future. The effectiveness of the decision depends upon the accuracy of the prediction. Planning interprets the objectives of the company and describes the means of achieving them. It is advanced decision making. Planning is based upon an appraisal of the external environment and any opportunities or constraints imposed by present corporate strengths or weaknesses.

Without profits, the company could not sustain operation, consequently, it would be unable to meet other goals such as maximum market share or the support of various community efforts, and would cease to exist. Return on investment, ROI, is the prime index of profitability. Initially,

planning revolves around maximizing ROI, since this is the means to improve profitability. Once on ROI has been established, consistent with sound continued growth and competitive conditions, the company chooses the products that will best maximize profits with the help of break even analysis. Demand considerations, competitive factors, and social and government constraints must be considered. Once the products have been chosen, the resources needed to obtain these products are determined. Certain levels and varieties of inventory are required to support sales.

A major task of the management is to plan capital expenditures and determine whether to increase his investment in, or to replace, existing fixed assets. Capital budgeting is the decision making process involved in formally planning the investment of capital. Many opportunities for profitable investments are constantly uncovered and recommended to management. These suggestions must fit within the formulation of long-range goals and in turn there must be a suitable framework within which relevant information can be assembled to achieve these goals. This requires a set of evaluation tools to select from among those alternatives that will meet the firm's objectives and financial strength.

#### B. The Role of Costing Systems in the Process

Management decisions are generally divided into two general groups, short-term and long-term. The great majority of day-to-day decisions are short-term. It is in this area that conventional cost accounting methods have been most

inadequate. This is largely because of including fixed costs which are usually committed for a relatively long time span, in product costs which are used for short-term decisions.

Variable costing separates the long-term costs from the short-term and maintains this separation throughout all accounting records and management reports. It is this very clear cut separation for management reporting that is important. Whether or not the official reporting records are converted to variable costing system for tax or other external reporting is of secondary importance.

Absorption costing obscures the true relationship between prices, costs, and volume. Thus, the variable costing profit and loss statement provides routinely all the data that a break even analysis requires and forever keeps before management the basic interrelationship of prices, costs and volume.

The best or optimum price is that which yields the maximum excess of total revenues over total variable costs, contribution margin. The volume at which the increase in total cost because of the addition of one more unit is just equal to the increase in total revenue is the optimum value. The price at which this volume can be obtained is the optimum price. The contribution margin analysis is readily available for pricing purposes in variable costing systems. Naturally, other facts such as competitor's selling prices, the characteristics of demand and consuming patterns, economic and governmental conditions affect the product pricing decisions.

The evaluation and interpretation of profit is crucial for planning future activities. Profit or loss figures under

different costing methods differ to some extent depending on the sales and production volume of the period. If sales exceed production, variable costing profit is higher than in absorption costing and if production exceeds sales, absorption costing shows higher profit. Under inflationary environment and in contracting or buyers market, sales generally do not exceed production especially in Turkey, in which case the evaluation of profit becomes a crucial factor. The overstated profit figure of absorption costing may mislead management. Moreover, the cost of inventory shows up higher figure in absorption costing leading management to contract production further.

Variable costing provide the key to profit planning in dept, and the profit plan integrates the planning and control for all levels of management. With management accounting data in this form, various sales estimates can be readily converted into projected operating profit. It is therefore practicable for the entire top management group to evaluate alternate plans and proposals in conference and to select the one that is generally agreed to be the best. This participation is in marked contrast with conventional absorption costing profit planning. A material change in the sales estimate under absorption costing usually results in time consuming cumbersome work and the result is that management often accepts an inferior plan rather than incur the delay inherent in testing alternate forecasts of volume and sales mix with the cumbersome technique of absorption costing.

Not only does variable costing facilitate profit planning and pricing decisions, but it provides basic finan-

cial and cost data in the form needed for almost all types of management decisions involving profitability. With routine accounting records maintained in this form, special analysis can be prepared for management with a minimum clerical work and delay. Since expenses are routinely separated into those that vary with volume of production or sales and those that do not, answers to questions where volume is a factor are quickly calculated. The effect of additional units produced or sold on operating profit, the effect of a price increase that resulted in a reduction in volume on operating income, the amount of additional sales needed to offset a price cut of certain amount, and the amount of price increase required to make up for an amount increase in wages can readily be analyzed from the financial statements of variable costing.

There are many long-range and short-term effects of decisions to make-or-buy, including facilities utilization, management and technical skills, and vendors' relations. These decisions must therefore be made in terms of management's basic objectives. In most firms such objectives can be stated simply as maximizing ROI and providing a sound rate of growth. To achieve this basic objective, management cannot base make-or-buy decisions on either out-of-pocket costs or total costs but must weigh the cash savings against the additional capital employed and compare the return with alternate uses of available capital. Variable costing system provides primary tools which facilitate sound make-or-buy decisions. These are separation between fixed and variable expenses, sound method for determining additional specific period costs that would be required to make versus buy a given

item, and logical bases for measuring the additional capital that would be required to make a given item as compared to buying it from outside vendors.

A sound program for expanding capacity is one of the most important ingredients for long-range planning and growth. The first step is to determine whether or not a proposed plant expansion program will improve the return-on-capital employed. This is relatively simple for a company using variable costing. The present situation is set up in variable cost from along with the incremental change, and then the return is figured including the expanded facilities and sales.

Evaluation of new products and processes, decisions on dropping old products, and advertising and promotion programs are other decision processes which can be handled under variable costing systems with less time and more accurate data.

#### IV. EMPIRICAL APPROACH AND DESIGN

##### A. The Aim of the Empirical Analysis

The idea behind the empirical analysis is that there is a relationship expected between method of cost accounting employed and the performance of the companies. More specifically, the pattern of classification of cost components, the financial reports prepared with these costing data, the presentation of the reports and the interpretation of the reports and the cost data by the management level affect the decision making process. Effective managerial decision making then in turn generates high probabilities of managerial and company success.

The performance of the companies are affected by many variables which are highly dependent on the type of the country and industry the company is operating, the quality and quantity of the management level, the sources of the company and general economic conditions. There are variables which the management has control over them and affect the performance of the company. The management itself can modify the decision making process by controlling and modifying the variables that are in the process.

The costing system employed in the company and the way the system is implemented and interpreted are assumed to affect the decision making process of the management and thereby the performance of the company.

## B. The Methodology of the Empirical Analysis

### 1. The General Method

Textile industry in Turkey is chosen as the sample for the hypothesis testing of the research as a representative of the population, companies in Turkey. The data collection method consists of two groups:

- (1) The questionnaire and the interview.
- (2) Financial data gathered by the Chamber of Industry of Istanbul.

The techniques employed in the statistical analysis of data are one-way frequencies, two-way frequencies, the Pearson correlations and the Discriminant analysis.

### 2. The Sampling

The Chamber of Industry of Istanbul publishes the first biggest 500 industrial companies every year. The chamber segregates the Turkish industry into several groups of industries in its studies<sup>(3)</sup>. For the year 1982, the Chamber has grouped the companies under 11 industries, and for the year 1983, it has grouped under 12 industries. The industrial companies analyzed by the Chamber consists of both private and public sector. Table 1 shows the number of companies out of 500 largest companies according to their industry group and sector, for the year 1982, Table 2 shows the same data for the year 1983.



TABLE 1  
INDUSTRY GROUPS IN 1982

INDUSTRY GROUPS	TOTAL	%	PUBLIC	PRIVATE	%
Mining	16	3.2	12	4	0.9
Food, Beverage, and Tobacco	82	16.4	5	77	17.9
Textile and Ready-Wear	107	21.4	23	84	19.5
Forestry and Furniture	8	1.6	1	7	1.6
Paper and publi- cation	15	3.0	2	13	3.0
Chemistry, Pet- roleum, Plastics	78	15.6	7	71	16.5
Land and Stone dependent	42	8.4	10	32	7.4
Metal	36	7.2	5	31	7.2
Metallic, elec- trical, mechani- cal Products	88	17.5	4	84	19.5
Automotive	26	5.2	-	26	6.0
Other	2	0.4	-	2	0.5
TOTAL	500	100.0	69	431	100.0

Source: Türkiye'nin 500 BÜYÜK KURULUŞU  
Istanbul Sanayi Odası Journal, Aug. 15, 1983,  
Year 18, No.1210, pp.45-51.

TABLE 2  
INDUSTRY GROUPS IN 1983

INDUSTRY GROUPS	TOTAL	%	PUBLIC	PRIVATE	%
Mining	12	2.4	8	4	0.9
Food, Beverage, and Tobacco	77	15.4	6	71	16.7
Textile and Ready-Wear	109	21.8	23	86	20.2
Forestry and Furniture	5	1.0	-	5	1.2
Chemistry, Pet- roleum, Plastics	83	16.6	6	77	18.1
Land and Stone dependent	45	9.0	12	33	7.7
Metal	35	7.0	5	30	7.0
Metallic, elec- trical, mechani- cal Products	88	17.6	7	81	19.0
Automotive	27	5.4	-	27	6.3
Paper and publi- cation	17	3.4	7	10	2.3
Electricity	1	0.2	-	1	0.2
Other	1	0.2	-	1	0.2
TOTAL	500	100.0	74	426	100.0

Source: Türkiye'nin 500 BÜYÜK KURULUŞU  
Istanbul Sanayi Odası Journal, Oct. 15, 1984, Special  
Issue, Year 19, pp.52-59.

Textile and Ready-wear industry has the highest number of companies in both years. The 19.5 per cent of the 500 largest companies belong to textile industry in the year 1982, and 20.2 per cent in the year 1983. This is the criterion for choosing the textile industry as the sample industry. The companies registered in the Chamber of Industry of Istanbul, that is located near Istanbul is 38 in the year 1982, and 37 in the year 1983. Almost half of the private textile companies are located near Istanbul and this can constitute a representative sample for the Turkish textile companies. One of the data collection methods employed in the research is questionnaires and interviews, which requires direct relationship with the management and face-to-face interviews. This method would be impractical and inefficient if the companies located outside of the Istanbul could have been included. The criterion for selecting Istanbul located textile companies is the degree of reaching the management. The criterion for selecting private sector is that the application of managerial tools and excluding governmental and political influences as much as possible.

Thirty-seven companies are chosen as the sample size for the research, and 30 of them could be reached and 26 of the reached companies have presented valid data for the purpose of the research. In other respect, 30 of the sample accepted to have an interview and fill out the questionnaire, but four of them have revealed invalid questionnaire forms.

TABLE 3  
THE SAMPLE

	Number of Companies (1983)
Largest companies of Turkey	500
Textile and ready-wear Industry	109
Textile and ready-wear Industry-Private	86 <sup>1</sup>
Textile and ready-wear Industry-Istanbul and Private	37
Accepted to interview	30
Valid data	26 <sup>2</sup>

<sup>1</sup> Population

<sup>2</sup> Sample

### 3. The Sample and the Population

The financial data of the sample companies are gathered from the studies of the Chamber. The data cover 1982 and 1983 figures, so that comparisons within the company could be made. The sample, the population and Turkish industry are analyzed for the two year financial data to have general point of view about the position of the sample in the population and in the Turkish industry. As could be seen from the Table 4 that the private sector of textile industry, the population, generates the 16 per cent of the sales of the private sector largest 431 industrial companies in Turkey in 1982, and the 17 per cent of the sales of 426 companies in 1983. Private sector textile industry created 9 per cent of the profit of total private sector in 1982 and 20 per cent in 1983. Textile industry has shown an increase in profit of 33.000 million Turkish Liras, more than 100 per cent, and private sector of the textile industry has increased its profits at the same amount. This points out that population of the research has gained a progress in 1983 more than 100 per cent though the total private industry has increased its profit about 72.000 millions of Turkish Liras, at 60 per cent. Almost half of the increase in profits is generated by the textile industry. The year 1983 has been a successful year for the population. The sample, as seen from Table 4, consists of successful group of the population. The profit of the sample has increased about 8.000 million Turkish Liras, the 24 per cent of total increase in profit in private

textile industry results from the performance of the sample companies.

The financial figures and ratios show that Turkish private sector and the textile private industry have succeeded in the year 1983. The reason why the sales/capital stock ratio decreased is that capital stock figures in 1983 has increased more than five times, whereas the sales has increased about 65-70 per cent. The increase of capital stock is due to the revaluation of fixed assets and including the revalued figure in the capital stock account in 1983.

The sampled companies have generated 37 per cent of the population sales in 1982 and in 1983. The sample has created a profit of 9.000 million in 1982, which is 48 per cent of profit made companies of private textile industry, and 44 per cent in 1983. All the financial ratios of the sample exceed the ratios of the population ratios. The sample is the representative of the successful companies of population.

In 1982, the profit of private sector in Turkey is nine per cent of total assets, 38 per cent of capital stock, and six per cent of sales figure. In the same year the profit of the population is two per cent of its total assets, 13 per cent of its capital stock, and two per cent of its sales figure. In the following year, the profit of private sector in Turkey is again nine per cent of total assets, 31 per cent of capital stock; because of high increases in capital stock, seven per cent of sales figure. In the same year, the profit of the population is eight per cent of its total assets, 28 per cent of its capital stock, and eight per cent

of its sales figure. The population has shown more increase than the Turkish private sector as a whole.

TABLE 4

## FINANCIAL FIGURES OF POPULATION AND THE SAMPLE

1 9 8 2 (000.000 Turkish Liras)									
	SALES	CAPITAL STOCK	ASSETS	PROFIT	<u>PROFIT</u> <u>ASSETS</u>	<u>PROFIT</u> <u>C. STOCK</u>	<u>PROFIT</u> <u>SALES</u>	<u>SALES</u> <u>ASSETS</u>	<u>SALES</u> <u>C. STOCK</u>
SAMPLE	110.385	34.002	103.419	8.964	0.0867	0.2636	0.0812	1.0674	3.2464
POPULATION	298.227	46.368	286.907	5.941*	0.0207	0.1281	0.0199	1.0395	6.4317
TURKEY-private	1.863.194	321.029	1.285.469	120.558	0.0934	0.3755	0.0647	1.4494	5.8038
TURKEY-total	3.494.891	675.245	3.154.521	210.108	0.0666	0.3112	0.0601	1.1079	5.1757

1 9 8 3 (000.000 Turkish Liras)									
	SALES	CAPITAL STOCK	ASSETS	PROFIT	<u>PROFIT</u> <u>ASSETS</u>	<u>PROFIT</u> <u>C. STOCK</u>	<u>PROFIT</u> <u>SALES</u>	<u>SALES</u> <u>ASSETS</u>	<u>SALES</u> <u>C. STOCK</u>
SAMPLE	183.065	47.185	152.483	17.220	0.1129	0.3649	0.0941	1.2006	3.8797
POPULATION	494.240	138.874	453.143	38.971	0.0860	0.2806	0.0789	1.0907	3.5589
TURKEY-private	2.801.049	621.980	2.070.456	192.819	0.0931	0.3100	0.0688	1.3529	4.5034
TURKEY-total	5.582.769	1.306.486	5.170.332	315.850	0.0611	0.2418	0.0566	1.0798	4.2731

\* TOTAL PROFIT : 18.708

TOTAL LOSS : (12.767)

NET PROFIT : 5.941

Source: Türkiye'nin 500 Büyük Kuruluşu, İstanbul Sanayi Odası Journal, Oct. 15, 1984 and Aug. 15, 1983.



#### 4. The Questionnaire

The financial data of every company in the sample are available from the studies of the chamber. In order to gather data about the costing systems employed, financial reports prepared, the way they are interpreted, the questionnaire method is used in the research. Along with the questionnaire, personal interview method, naturally, improved the validity of the data collection method. The general manager or the finance manager of the sample companies have been interviewed in their offices and they have filled out the questionnaires.

The questionnaire consists of 21 questions (Appendix E). The first five questions are asked to relate the questionnaire with their financial figures gathered from the chamber. Only four out of 21 questions are open ended, the other questions are multiple choice questions. Five out of 16 multiple choice questions are double choice questions.

The questionnaire is intended to find out the management's pattern of giving decisions. The type of financial reports prepared and the frequency of their preparation are assumed to base a managerial decision making model. Then, to analyze the content of this base, questions are forwarded to how these financial reports are prepared; whether variable costing method has used or not is the main intention of the questionnaire.

## 5. The Performance Rating

The financial ratios are used to quantify and rate the performance of the companies. These financial ratios are profit over assets, profit over capital stock, profit over sales, sales over assets, and sales over capital stock. The ratios are calculated for 1982 and 1983, to be able to compare the performance of the company.

## V. EMPIRICAL FINDINGS

### A. Definition of Variables

The variables that are defined out of the data for the empirical analysis constitute the main part of the research. There are 36 variable that donate the research, 31 of them being gathered through questionnaires, five of them through the studies of chamber of Industry.

#### (1) Sales grouping.

The sales of the companies are grouped in five headings:

- (a) Above 15 billion Turkish Liras.
- (b) Between 14.9 and 10 billion Turkish Liras.
- (c) Between 9.9 and five billion Turkish Liras.
- (d) Between 4.9 and two billion Turkish Liras.
- (e) Below two billion Turkish Liras.

#### (2) Income level grouping.

The income level of the companies are grouped in five headings:

- (a) Above one billion Turkish Liras.
- (b) Between 999 and 500 million Turkish Liras.
- (c) Between 499 and 250 million Turkish Liras.
- (d) Between 249 and 100 million Turkish Liras.
- (e) Below 100 million Turkish Liras.

#### (3) Investment expenditure grouping.

The investment expenditure of the companies are grouped in six headings:

- (a) Above 10 billion Turkish Liras.
- (b) Between 9.9 and five billion Turkish Liras.
- (c) Between 4.9 and one billion Turkish Liras.

- (d) Between 999 and 500 million Turkish Liras.
- (e) Between 499 and 100 million Turkish Liras.
- (f) Below 100 million Turkish Liras.
- (4) Export level grouping

The export sales of the companies are grouped in five headings:

- (a) Above 20 million dollars.
- (b) Between 19.9 and 10 million dollars.
- (c) Between 9.9 and five million dollars.
- (d) Between 4.9 and one million dollars.
- (e) Below one million dollars.
- (5) The usage of computer in the operations of the company.

The companies are grouped in two headings:

- (a) Use computer in the operations of the company.
- (b) Do not use computer in the operations of the company.
- (6) The usage of computer in the general manager level.

The companies that use computer in their operations are grouped in two headings:

- (a) Use computer in the general manager level.
- (b) Do not use computer in the general manager level.
- (7) The usage of computer in the finance and accounting department.

The companies that use computer in their operations are grouped in two headings:

- (a) Use computer in the finance and accounting department:
- (b) Do not use computer in the finance and accounting department.

(8) The usage of computer in the production department. The companies that use computer in their operations are grouped in two headings:

- (a) Use computer in the production department.
- (b) Do not use computer in the production department.

(9) The usage of computer in the planning department. The companies that use computer in their operations are grouped in two headings:

- (a) Use computer in the planning department.
- (b) Do not use computer in the planning department.

(10) The usage of computer in the sales department.

The companies that use computer in their operations are grouped in two headings:

- (a) Use computer in the sales department.
- (b) Do not use computer in the sales department.

(11) The usage of computer in the purchasing department.

The companies that use computer in their operations are grouped in two headings:

- (a) Use computer in the purchasing department.
- (b) Do not use computer in the purchasing department.

A company which uses computer in its operations may be grouped in cases if using the computer in the departments mentioned above.

(12) The point of view in the usage of computer.

The point of views of the companies that use computer in their operations about the usage of computer are grouped in four headings:

- (a) The computer application is totally helpful in all cases.

(b) The computer application is totally helpful in some cases.

(c) The computer application is partly helpful in some cases.

(d) The computer application is not helpful in all cases.

(13) The usefulness of balance sheet and income statement in managerial decision making.

The companies are grouped in two heading:

(a) Balance sheet and income statement are used in managerial decision making.

(b) Balance sheet and income statement are not used in managerial decision making.

(14) The frequency of the preparation of balance sheet and income statement.

The companies which use balance sheet and income statement in managerial decision making are grouped in four headings:

(a) The reports are prepared weekly.

(b) The reports are prepared monthly.

(c) The reports are prepared quarterly.

(d) The reports are prepared in every 4 months.

(15) The usage of sources and uses statement in managerial decision making.

The companies are grouped in two headings:

(a) Use sources and uses statement in managerial decision making.

(b) Do not use sources and uses statement in managerial decision making.

(16) The usage of breakeven analysis in managerial decision making.

The companies are grouped in two headings:

- (a) Use breakeven analysis in managerial decision making.
- (b) Do not use breakeven analysis in managerial decision making.

(17) The usage of ratio analysis in managerial decision making.

The companies are grouped in two headings:

- (a) Use ratio analysis in managerial decision making.
- (b) Do not use ratio analysis in managerial decision making.

(18) The components that are included in the product cost.

The components are grouped in 18 headings:

- (a) Direct labor.
- (b) Raw material.
- (c) Supplies.
- (d) Heating and illumination.
- (e) Energy and water.
- (f) Repair and maintenance.
- (g) Plant depreciation.
- (h) Machine depreciation.
- (i) Plant rent.
- (j) Administrative personnel expenses.
- (k) Office supplies.
- (l) Office building depreciation.
- (m) Office building rent.
- (n) Sales personnel expenses.
- (o) Advertising and promotion expenses.

- (p) Financial expenditures.
- (r) Labor rented.
- (s) Portion from the general expenses.
- (19) The classification of costs as variable and fixed costs in the cost accounting systems.

The companies are grouped in two headings:

- (a) The costs are classified as variable and fixed.
- (b) The costs are not classified as variable and fixed.
- (20) The type of classification of costs as fixed and variable.

The companies which classify costs as fixed and variable are grouped in three headings:

- (a) All costs are classified as fixed and variable.
- (b) Labor cost is assumed as fixed and all other costs are classified as fixed and variable.
- (c) Raw material cost is assumed as variable and all other costs are not classified.

(21) The application of variable cost accounting method in financial internal reporting.

The companies are grouped in two headings:

- (a) Employ variable costing system in financial reporting.
- (b) Do not employ variable costing system in financial reporting.

(22) The usefulness of balance sheet and income statement in long term planning.

The companies are grouped in two headings:

- (a) Use balance sheet and income statement in long-term planning.



(b) Do not use balance sheet and income statement in long-term planning.

(23) The usefulness of balance sheet and income statement in short-term planning.

The companies are grouped in two headings:

(a) Use balance sheet and income statement in short-term planning.

(b) Do not use balance sheet and income statement in short-term planning.

(24) The usefulness of balance sheet and income statement in pricing decisions.

The companies are grouped in two headings:

(a) Use balance sheet and income statement in pricing.

(b) Do not use balance sheet and income statement in pricing.

(25) The usefulness of balance sheet and income statement in purchasing decisions.

The companies are grouped in two headings:

(a) Use balance sheet and income statement in purchasing decisions.

(b) Do not use balance sheet and income statement in purchasing decisions.

(26) The usefulness of balance sheet and income statement in investment decisions.

The companies are grouped in two headings:

(a) Use balance sheet and income statement in investment decisions.

(b) Do not use balance sheet and income statement in investment decisions.

(27) The usage of balance sheet in evaluating the operations of the company.

The companies are grouped in two headings:

(a) Use balance sheet in evaluating the operations of the company.

(b) Do not use balance sheet in evaluating the operations of the company.

(28) The usage of income statement in evaluating the operations of the company.

The companies are grouped in two headings:

(a) Use income statement in evaluating the operations of the company.

(b) Do not use income statement in evaluating the operations of the company.

(29) The usage of sources and uses statement in evaluating the operations of the company.

The companies are grouped in two headings:

(a) Use sources and uses statement in evaluating the operations of the company.

(b) Do not use sources and uses statement in evaluating the operations of the company.

(30) The usage of ratio analysis in evaluating the operations of the company.

The companies are grouped in two headings:

(a) Use ratio analysis in evaluating the operations of the company.

(b) Do not use ratio analysis in evaluating the operations of the company.

(31) The usage of monthly budget compared reports in evaluating the operations of the company.

The companies are grouped in two headings:

(a) Use monthly reports in evaluating the operations of the company.

(b) Do not use monthly reports in evaluating the operations of the company.

Naturally, any company can use more than one of the above mentioned reports in evaluation of the company.

(32) The performance in profit over assets ratio.

The companies are grouped in two headings:

(a) Increase in profit over assets ratio.

(b) Decrease in profit over assets ratio.

(33) The performance in profit over capital stock ratio.

The companies are grouped in two headings:

(a) Increase in profit over capital stock ratio.

(b) Decrease in profit over capital stock ratio.

(34) The performance in profit over sales ratio.

The companies are grouped in two headings:

(a) Increase in profit over sales ratio.

(b) Decrease in profit over sales ratio.

(35) The performance in sales over assets ratio.

The companies are grouped in two headings:

(a) Increase in sales over assets ratio.

(b) Decrease in sales over assets ratio.

(36) The performance in sales over capital stock ratio.

The companies are grouped in two headings:

(a) Increase in sales over capital stock ratio.

(b) Decrease in sales over capital stock ratio.

TABLE 5  
THE VARIABLE LIST

VARIABLES DEFINED	RELATED QUESTIONS IN QUESTIONNAIRE	VARIABLE CODE IN THE ANALYSIS
1	1	V1
2	2	V2
3	3	V3
4	5	V4
5	6	V5
6	8	V6
7	8	V7
8	8	V8
9	8	V9
10	8	V10
11	8	V11
12	11	V12
13	12	-
14	13	V13
15	14	V14
16	14	V15
17	14	V16
18	15	-
19	16	V17
20	17	V18
21	19	V19
22	20	V20
23	20	V21
24	20	V22
25	20	V23
26	20	V24
27	21	V25
28	21	V26
29	21	V27
30	21	V28
31	21	V29
32	-	V41
33	-	V61
34	-	V71
35	-	V81
36	-	V91

## B. Statistical Methods Used

Statistical methods employed in the research are one-way frequency distributions, joint frequency distributions, Pearson correlations and Discriminant analysis.

Normally, the first task of data analysis is to determine the basic distributional characteristics of each of the variables to be used in the subsequent statistical analysis. The distributional characteristics available with this statistical method are mean, median, mode, range, minimum, maximum, standard deviation, standard error, variance, skewness, and kurtosis.

The minimum and maximum denote the smallest and largest value of a variable encountered among the cases, while the range is the minimum subtracted from the maximum. The mode is the value of the variable which occurs most often. The median is the numerical value of the middle case or the case lying exactly on the 50th percentile, once all the cases have been rank ordered from highest to lowest. The mean is the most common measure of central tendency for variables measured at the interval level. Often referred to as the average, it is merely the sum of the individual values for each case divided by the number of cases. The variance is a measure of the dispersion of the data about the mean. The standard deviation, very simply, is the square root of the variance.

If an infinite number of equal-sized samples were drawn from a given population, the mean of each sample would be an estimate of the true population mean, but not all of

them would be identical. The pattern of these means would actually constitute a normal distribution and would have a standard deviation. The standard deviation of this distribution is the standard error. Thus, the standard error enables to determine the potential degree of discrepancy between the sample mean and the unknown population mean.

The skewness is a statistic needed to determine the degree to which a distribution of cases approximates a normal curve, since it measures deviations from symmetry. The measure of skewness sometimes called the third moment, takes on a value of zero when the distribution is a completely symmetric bell-shaped curve. A positive value indicates that the cases are clustered more to the left of the mean with most of the extreme values to the right. A negative value indicates the clustering to the right.

The kurtosis is a measure of the relative peakedness or flatness of the curve defined by the distribution of cases. A normal distribution will have a kurtosis of zero. If the kurtosis is positive, the distribution is more peaked than would be true for a normal distribution, while a negative value means that it is flatter. Kurtosis is sometimes called the fourth moment.

After examining the distribution of each of the variables, the research begins to investigate sets of relationships among two or more of these variables. Since the sample size is relatively small, joint frequency distribution analysis is available for the research, enabling the analysis of pairs of variables.

A cross tabulation is a joint frequency distribution of cases according to two or more classificatory variables. The joint frequency distributions can be statistically analyzed by the chi-square statistic, to determine whether or not the variables are statistically independent. Chi-square is a test of statistical significance. It enables to determine whether a systematic relationship exists between two variables. Tests of statistical significance only indicate the likelihood that an observed relationship actually exists in the universe, they do not tell how strong the relationship is. A relationship may be statistically significant without being substantively important.

Since, the actual relationship in the universe is not known, small values of chi-square are interpreted to indicate the absence of a relationship, often referred to as statistical independence. Conversely, a large chi-square implies that a systematic relationship of some sort exists between the variables.

In order to determine whether a systematic relationship does exist, it is necessary to ascertain the probability of obtaining a value of chi-square as large or larger than the one calculated from the sample, when in fact the variables are actually independent. This depends, in part, upon the degrees of freedom. The degrees of freedom vary with the number of rows and columns in the table, and they are important because the probability of obtaining a specific chi-square value depends on the number of cells in the table.

By itself, chi-square enables only to decide whether variables are independent or related. It does not tell how

strongly they are related. Part of the reason is that the sample size and table size have such an influence upon chi-square. Other statistics which adjust for these factors are available.

Pearson's correlation serves a dual purpose. Besides its role as an indicator of the goodness of fit of the linear regression, it is a measure of association indicating the strength of the linear relationship between the two variables. If the value of the correlation is close to zero, it is assumed that there is little or no linear relationship. If the value of the correlation approaches to +1.0 or -1.0, it is assumed that there is a strong linear relationship. Since the correlation coefficient is a measure of association, it does not reveal which variable is considered to be predicting the other. Significance tests are reported for each coefficient and used for two-tailed test of significance. When correlation coefficient cannot be calculated, as will happen if the variable is either missing for all cases or takes the same value for all cases, a value of 99.00 is assigned, which is a sign that the coefficient was not calculable.

In the methodology of the research, Pearson's correlation coefficients of the pair of variables which showed up high values of chi-square are considered.

In discriminant analysis, canonical correlation is used to judge the importance of the discriminant function. It is a measure of association between the function and the variable. In other words, it measures the ability of the function to discriminate among the groups. The higher and closer to 1.0 the correlation, the more the function is



reliable and variables are correlated with the function. Wilks' Lambda is another significance statistics in discriminant analysis. Lambda can be transformed into a chi-square statistic for an easy test of statistical significance.

The standardized discriminant function coefficients are of great analytic importance in and of themselves. When the sign is ignored, each coefficient represents the relative contribution of its associated variable to that function. The sign merely denotes whether the variable is making a negative or positive contribution.

### C. General Findings

The results of the one-way frequency distribution are presented in Appendix A and of the joint frequency distribution are presented in Appendix B. And the results of Pearson's correlation and Discriminant analysis are presented in Appendix C and D, respectively.

The striking point in the general analysis of the findings is that there is a strong relation between the application of computer in the operations of the company and the classification of costs as variable and fixed and also the application of variable costing in internal reporting. Almost the 54 per cent of the sampled companies use computer and the 71 per cent of them do classify the costs, the 57 per cent of them apply variable costing. The companies which apply variable costing and the companies which classify costs as variable and fixed, fall in the higher levels of sales and income. Their volume and complexity of operations and

activities may have forced these companies to implement computer and the application of computer might have caused available data for the use of variable costing and classification of costs. The management not being able to control and analyze every operation of the company might have decided to use technical methods for rational decision making and evaluating the company. Finding out the problem areas and searching for the solution might have caused management to employ variable costing and/or computer in their companies. Another fact is that application of computer is a sign of modernization for the present time and the application of it in Turkey is increasing. Naturally, financially strong companies are the first ones to adopt themselves to this modernization process. The 93 per cent of the computer using companies have increased their performance in sales over assets. While modernizing these companies might have also been searching for more rational managerial decision making alternatives. By coincidence, there seems a strong relation between the application of computer and the decision making using variable costing as a tool.

There is also an association between the usage of computer and the usage of balance sheet, and income statement in long-term and short-term planning, in pricing decision, and in investment decisions. The employment of computer might have facilitated the preparation of these reports and enabled them to be prepared as detailed as the management required for the purpose of managerial decision making. Inversely, the desire of the management for using the reports in decision making might have ended with a solution of using

computer. Since the computer using firms can be generalized as well-performing companies, they are faced with long-term and short-term planning and pricing and investing decisions and try to be rational and optimal in their decisions to succeed. The balance sheet and the income statement are the primary tools for such managerial decisions. Their financial strength have probably challenged them for the application of the computer and by coincidence the companies might have taken the advantage of it as a managerial tool in their operations.

Another striking relation is analyzed between the usage of computer and the ratio analysis. The 78 per cent of the companies that use ratio analysis also employ computer in their operations. Implementation of computer in their operation enables them to use the analysis in their managerial decisions. Inversely, the demand of the management to take advantage of the ratio analysis leads using computer to facilitate the process of the analysis. Interestingly enough, most of the companies using ratio analysis also use variable costing and classify the costs as variable and fixed. And generally these companies are the succeeding companies. It can be stated as there is a strong relation between using computer, using variable costing, classifying the costs, and using ratio analysis. Modern management tools which help managers to control and evaluate the operations and give decisions are mainly ratio analysis and cost analysis. And modern management also uses computer for these analysis or with the computer available in their companies prefer to employ these analysis.

The companies using breakeven analysis also use variable costing in internal reporting. In fact, to be able to perform a breakeven analysis, the company should have classified its costs as variable and fixed beforehand. It is practical to make a breakeven analysis when the company is already employing variable costing in its reporting system. Once the company implements the variable cost accounting it is very natural to perform breakeven analysis, especially if the application of computer is present.

The companies classifying costs do employ variable costing in internal reporting. Classification of costs enables to employ the variable costing method or to employ variable costing, costs must be classified already.

There seems to be a significant relationship between the classification of costs and the usage of balance sheet and income statement in long-term planning. Also there is an association between the usage of these reports in long term planning and the application of variable costing. The presentation of the reports prepared and analyzed by the variable costing method enlightenes management for the strengths and weaknesses of the company and builds up the base for long-term planning. Alternatively, the management team which desires to have deterministic long-term planning in the company prefer to employ variable costing to analyze and plan more rational and realistic. In fact, the companies which use variable costing are generally from the high income and sales group and the companies which find balance sheet and income statement helpful in long-term planning also are from the high level group. High volumes of sales

and income may have been the result of rational long-term planning or may have enforced the management to attain long-term planning, to set long-term goals and objectives to maintain the level of sales and income.

The companies which apply variable costing also find balance sheet and income statement helpful in investment decisions. Investment decision making requires the evaluation of the strengths and weaknesses of the company, the alternatives and the choice of the best alternative suitable to the financial and cost structure of the company. Hence, variable costing method is one of the primary tools to analyze and evaluate the company's structure.

Finally, the use of the computer, the application of the variable costing method, the classification of costs, the use of balance sheet and income statement, and the sales and income level of the company are all related with each other, and affecting one another.

The application of sources and uses statement and breakeven analysis in managerial decision making have a relation with the performance of the companies in profit over capital stock ratios. The breakeven analysis is an analytical technique for studying the relations among fixed costs, variable costs, and profits. It is a profit-planning approach based on established relations between costs and revenues. It is a device for determining the sales level for desired levels of profit. The sources and uses of fund statement indicates where cash came from and how it was used. The information it provides points out that the company is making progress or that problems are arising. The sources and uses

data may also be analyzed on a proforma basis to show how a firm plans to acquire and employ funds during some future period.

In order to perform in profit over capital stock ratio, the percentage increase in profits must exceed the percentage increase in capital stock. An increase in profit is attained through profit planning. The size and structure of capital stock is decided through the analysis of sources and uses of the funds of the company.

The companies which have increased their sales over assets ratio also use income statement in evaluating the operations of the company. An income statement may be used by management to judge the effectiveness of its past policies and decisions, to detect unfavorable trends and developments, and to provide data upon which to base decisions regarding a wide variety of matters, such as whether to expand production, whether to change advertising policy, whether to introduce a new product, whether to alter selling prices, and whether to merge with another corporation. Such an analysis of income statement may lead to such decisions which may generate an increase in sales more than an increase in assets.

It is observed that 11.5 per cent of the companies which decreased their profit over sales ratio managed and succeeded to increase profit over assets ratio. The inclusion of export sales in the sales figure and the application of low margins on these sales naturally generates a decrease in profit over sales figure especially when exports are increasing in time.

There has not been striking relations found with the performance measurement of the sampled companies and the classification of costs and application of the variable costing method in internal reporting.

The results of discriminant analysis revealed that the most contributing variables to the usage of computer in the operations of the company are the application of variable cost accounting method in financial internal reporting, the classification of costs as variable and fixed costs in the cost accounting systems, the usefulness of balance sheet and income statement in long term planning, the usage of ratio analysis in evaluating the operations of the company, and the performance of sales over capital stock.

The most contributing variables to the classification of costs as variable and fixed costs in the cost accounting systems are the performance of sales over capital stock, the usage of balance sheet and ratio analysis in evaluating the operations of the company.

Finally, the most contributing variables to the application of variable cost accounting method in financial internal reporting are the classification of costs as variable and fixed costs in the cost accounting systems, the usage of balance sheet, sources and uses statement, and ratio analysis in evaluating the operations of the company, and the performance in sales over capital stock.

## VI. CONCLUSION

The research aimed to explore the relationship of application of variable costing, usage of financial reports, employment of computer, and performance of the companies. For this purpose 36 variables have been defined to test the relationships by statistical methods. The results have showed that the employment of computer has direct relationship with the classification of costs as variable and fixed costs, application of variable costing in internal reporting, the usefulness of balance sheet and income statement in long-term planning, short-term planning, in pricing and purchasing decisions and the usage of ratio analysis evaluating the operations of the company. Direct relationships have also been observed between the application of variable costing in internal reporting and sales group, the usage of breakeven analysis in managerial decision making, the classification of costs, the usefulness of balance sheet and income statement in long-term planning, investment decisions and the usage of ratio analysis in evaluation of the company.

The research covers 26 of the companies out of 86 private textile industrial companies that have taken places in the first 500 largest companies of Turkey in 1983. The sample size is quite representative of the textile industry but not enough to make sophisticated statistical analysis. If the sample size had been larger, regression models and factor analysis methods could have been applied to further analyze the strength and cause of the relationship between variables. The research sample size is limited to only Istan-



bul region companies in textile industry totalling up to about 40 in size in the 500 largest companies list of the Chamber of Industry of Istanbul. The environmental factors due to specific Istanbul region might have affected the companies in the sample and these unmeasured affects could not been analyzed in the research, which is a rather important fact. This will most probably discriminate the sampled companies from the textile industrial companies in Turkey-wide. So, for further and stronger analysis the research could be extended to cover up the companies of all regions so that Turkish textile industry could be represented and by this way the sample size would be increased enabling the researcher to analyze and test the hypothesis by more explicit technical methods.

By chance, the income level and sales level of the companies in the sample are relatively in the higher level of the industrial group. In fact, this very same industry has performed quite well in the year 1983. These two facts should not be overestimated in evaluating and implementing the results of the research.

The relationships of the performance rating variables with other variables are found to be vague and so unsystematic that no clear cut propositions could be stated. In further analysis of the subject, new and different variables that best describe the performance measurement of the company should be searched and more meaningful relationships could be assembled. In fact, the research can be improved with introducing more variables into the scene and tested statistically. These new and different variables can be included

to the analysis with the improvement of the questionnaire or adding more questions to it and mainly arranging a panel between the top management of the sampled companies. A discussion among them related to the subject matter would give some highlights about the unmeasured behaviors and trends of the management and enable to analyze and evaluate the answers of the questionnaires.

The research has aimed to search the subject in the textile industry in 1985. The analysis could be extended to other industrial groups of the Turkey so that comparative studies regarding industrial differences can be accomplished. By the very same objective, a comparative research could be employed in the same industry with the same variables and techniques after a certain period of time to analyze the time factor and the changing relationships over time. More advanced studies would be comparing the textile industry of Turkey with United States, world countries, or European Economic Community countries from the same point of view covering the same period of time.

The research is succeeded to analyze and find-out some related variable pairs so that further analysis and studies could be based upon them and improve and develop the implementations as to the purpose of the researches.

## APPENDIX A

## ONE WAY FREQUENCY DISTRIBUTIONS

One-way frequency distributions are analyzed for all the variables of the research.

(1) Sales grouping.

The 42.3 per cent of the companies examined generated sales of between two and five billion Turkish Liras in 1983. The 42.3 per cent of the sample size have a sales figure above five billion Turkish Liras.

(2) Income level grouping.

The 42.3 per cent of the companies have created an income of between 250 and 500 million Turkish Liras in 1983. The 61.5 per cent of the sample have ended in 1983 with a profit of above 250 million Turkish Liras.

(3) Investment expenditure grouping.

The 46.2 per cent of the companies have made an investment expenditure below 100 million Turkish Liras in 1983. It is clear to interpret that the funds created from the profits are not used as investments in general.

(4) Export level grouping.

The 53.8 per cent of the companies have made an export sales below five million dollars in 1983. The 80.8 per cent have been able to export above one million dollars.

(5) The usage of computer in the operations of the company.

The 53.8 per cent of the companies sampled are using computer in their operations. The 14.3 per cent of them are employing the computer in the general manager level, 92.9

per cent of them in the finance and accounting department, 35.7 per cent of them in the production department, 28.6 per cent of them in the planning department, 21.4 per cent of them in the sales department, and 7.1 per cent of them in the purchasing department.

(6) The point of view of in the usage of computer.

The 28.6 per cent of the companies which use computer in their operations find the application of it as totally helpful in all cases. The 57.1 per cent find it as partly helpful in some cases and 14.3 per cent of them imply that the application of computer is not helpful in all cases.

(7) The usefulness of balance sheet and income statement in managerial decision making.

The 96.2 per cent of or 25 out of 26 companies have been using the mentioned financial reports in their managerial decision making.

(8) The frequency of the preparation of balance sheet and income statement.

The 69.2 per cent of the sample prepares the reports monthly, and 19.2 per cent prepares quarterly. Only one company prepares every week and the other prepares every four months.

(9) The usage of sources and uses statement, breakeven analysis, and ratio analysis in managerial decision making.

The 46.2 per cent of the companies use sources and uses statement, 26.9 per cent of them use breakeven analysis, and 57.7 per cent of them use ratio analysis in their managerial decision making. It is interesting to note that even all the companies in the sample are production oriented com-

panies, they give very little emphasis on the breakeven analysis.

(10) The components that are included in the product costs.

All the companies include direct labor, raw material, supplies, heating and illumination, energy and water, repair and maintenance, and machine depreciation in the product cost. The 84.6 per cent include plant depreciation, 15.4 per cent include plant rent, 42.3 per cent include administrative personnel expenses, 38.5 per cent include office supplies, 34.6 per cent include office building depreciation, 23.1 per cent include office building rent, 23.1 per cent include sales personnel expenses, 19.2 per cent include advertizing and promotion expenses, 30.8 per cent include financial expenses, 7.7 per cent include a portion from the general expenses.

(11) The classification of costs as variable and fixed costs in the cost accounting systems.

The 50 per cent of the companies do classify the costs as variable and fixed. The 61.5 per cent of them classify all the costs, 23.1 per cent of them assume labor as a fixed cost and classify all the others, and 15.4 per cent of them assume raw material cost as the only variable cost.

(12) The application of variable costing method in internal reporting.

The 42.3 per cent of the companies employ variable costing method in their internal reporting of which 72.8 per cent classify all the costs as fixed and variable and 27.2

per cent assume labor cost as a fixed cost and classify all other costs.

(13) The usefulness of balance sheet and income statements in long-term planning, in short-term planning, in pricing, in purchasing, and in investing.

The 38.5 per cent of the companies find the mentioned financial reports useful in long-term planning, the 76.9 per cent in short-term planning, the 84.6 per cent in pricing, the 30.8 per cent in purchasing, and the 30.8 per cent in investing decisions. The financial reports are mostly used in pricing decisions and leastly in investing and purchasing decisions.

(14) The evaluation of the operations of the company.

The 96.2 per cent of the companies use balance sheet for the evaluation of operations, the 96.2 per cent use income statement, the 38.5 per cent use sources and uses statement, the 34.6 per cent use ratio analysis, and the 15.4 per cent use monthly budget compared reports.

(15) Performance evaluation.

The 57.7 per cent of the companies have shown an increase in profit over assets, the 69.2 per cent have shown an increase in profit over capital stock, the 50 per cent have shown an increase in profit over sales, the 76.9 per cent have shown an increase in sales over assets, and the 69.2 per cent have shown an increase in sales over capital stock. The 46.2 per cent have shown an increase in profit over assets, profit over capital stock, and profit over sales simultaneously. The 1.1 per cent have shown an increase in all ratios.

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V1 SATIS BRUPLAR

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	DUK FREQ (PCT)
15M+	1	3	11.5	11.5	11.5
15-19M	2	4	15.4	15.4	25.0
20-24M	3	4	15.4	15.4	42.0
25-29M	4	11	40.3	40.3	57.0
30+	5	4	15.4	15.4	123.0
TOTAL		26	100.0	123.6	

MEAN	3.846	STD ERR	0.846	MEDIAN	3.154
MODE	4.000	STD DEV	1.882	VARIANCE	3.543
MUR'DER	2.923	MINIMUM	1.000	RANGE	4.000
MINIMUM	1.000	MAXIMUM	5.000		

VALID CASES 26 MISSING CASES 7

LARRY

KAR GRUPLARI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (%)
1	1	2	11.5	11.5	11.5
14-2224	2	2	7.7	7.7	19.2
250-800MX	3	11	48.3	48.3	67.5
120-252YX	4	4	15.4	15.4	82.9
1500X	5	6	23.1	23.1	100.0
	TOTAL	26	100.0	100.0	

MEAN	3.300	STD ERR	2.247	MEDIAN	2.757
MODE	3.000	STD DEV	1.258	VARIANCE	1.582
MINIMUM	1.000	SKEWNESS	-0.210	RANGE	7.000
MAXIMUM	5.000	KURTOSIS	5.000		

VALID CASES 26 MISSING CASES 0



COPY

V3

VETERAN BENEFITS

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CL FREQ (PCT)
1000	1	1	3.8	3.8	3.
1-30	3	1	3.8	3.8	7.
1N-5000	4	4	15.4	15.4	23.
122-5000	5	7	26.9	26.9	50.
12000-	6	12	46.2	46.2	96.
YK	7	1	3.8	3.8	100.
TOTAL		26	100.0	100.0	

MEAN	3.154	STD ERR	0.846	MEDIAN	5.000
MODE	6.000	STD DEV	1.255	VARIANCE	1.575
VARIANCE	2.333	SKEWNESS	-1.448	RANGE	6.000
COEFF	1.000	MAXIMUM	7.000		

VALUE BASIC 26      XTESTING CROSS 0



2004

FILE: 00000000 KULLANIXI

CATEGORY LEVEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (%)	ADJUSTED FREQ (%)	RELATIVE FREQ (%)
VAR01LANNONAN	2	12	48.0	48.0	48.0
VAR02LANNAN	1	14	52.0	52.0	52.0
TOTAL		26	100.0	100.0	

MEAN	0.500	STD ERR	0.100	MEDIAN	0.071
MODE	1.000	STD DEV	0.500	VARIANCE	0.250
KURTOSIS	-0.000	SKEWNESS	-0.145	RANGE	0.222
KOZULU	0.071	MAXIMUM	1.200		

VALID CASES 26 MISSING VALUES 0

COPY

V8 BRIDE RILSISBAYR KULLANIKI

DATE/DAY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CL FR (P)
KULLANILMAYAN	0	18	46.2	85.7	75
KULLANILMAYAN	1	8	7.7	14.3	100
	9	12	46.2	MISSING	
TOTAL		26	120.0	100.0	

MEAN	2.143	STD ERR	0.097	MEDIAN	-2.500
MODE	0.000	STD DEV	0.552	VARIANCE	3.100
MINIMUM	1.400	SKENESS	1.026	RANGE	1.000
MAXIMUM	2.200	KURTOSIS	1.200		

VALID CASES	14	MISSING CASES	12
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V7 NAME RELEASED FOR KOLLANDYI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (ADJ)	ADJ FRE (PCT)
KOLLANDYI KATA	0	1	3.8	7.1	7.1
KOLLANDYI KATA	1	13	50.0	99.6	99.6
	9	12	46.2	MISSING	
	TOTAL	26	100.0	100.0	

MEAN	0.385	STD ERR	0.271	MEDIAN	0.000
MODE	1.130	STD DEV	0.267	VARIANCE	0.071
KURTOSIS	7.410	SKEWNESS	-0.570	RANGE	1.130
MEYERLY	0.000	MAXIMUM	0.000		

VALID CASES	17	MISSING VALUES	10
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FORWARDED BY LABORATORY KULLU

CATEGORY LABEL	CODE	ABSOLUTE FREQ.	RELATIVE FREQ. (PCT)	ADJUSTED FREQ. (PCT)	BUY FREQ. (PCT)
ALLANILYKADKA	0	0	0%	0%	0%
ALLANILYKAP	1	6	10%	35.7	100%
	0	12	46.8	116.9	
TOTAL		26	100%	197.6	

MEAN	0.157	STD DEV	0.100	MEDIA	0.420
MODE	0.000	STD DEV	0.497	VARIANCE	0.000
CURTOSIS	-1.001	SKENESIS	0.001	RANGE	1.000
SKENESIS	0.000	MAXIMUM	1.000		

ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED

M000

PRIMARY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	ORG FREQ (PCT)
ALLANILYAKTA	3	13	36.8	71.4	71.4
ALLANILYAKTA	1	4	11.4	26.5	107.3
	5	12	46.2	MISSING	
	TOTAL	29	100.0	100.0	

MEAN	0.200	STD DEV	0.105	MEDIAN	-1.700
MIN	0.000	STD DEV	0.400	VARIANCE	0.000
MAX	1.000	Q1	0.000	Q3	1.000
Q1	1.000	Q2	0.000	Q4	0.000

ALLANILYAKTA 3 13 36.8 71.4 71.4

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STATS FOR THE HILGEBAYAS XDR

ENTRY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM- FREQ (PCT)
LAHILGEBAYAS	0	11	42.3	76.6	76.6
LAHILGEBAYAS	1	5	11.3	21.4	107.9
	9	12	46.2	MISSING	
	TOTAL	28	100.2	100.0	

MEAN	0.214	STD ERR	0.214	MEDIAN	-1.000
STDEV	0.000	STD DEV	0.486	VARIANCE	0.181
MODUS	-0.486	SKEWNESS	1.046	RANGE	1.000
MIN	0.000	MAXIMUM	1.000		

NO MISSING CASES 10



## SAYINGLAR HOLLAYLARDI BILGIBIYAR KULLANIMLARI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	ORIG FREQ (PCT)
ULLANILMAYAKTA	0	13	52.0	52.9	52.0
ULLANILYAKTA	1	1	3.8	7.1	3.8
	9	12	46.2	MISSING	
TOTAL		26	100.0	100.0	

MEAN	0.271	STD ERR	0.071	MEDIAN	-5.000
MODE	0.000	STD DEV	0.267	VARIANCE	0.271
CURTOSIS	7.413	SKEWNESS	2.976	RANGE	1.000
ENTROPY	0.220	MAXIMUM	1.000		

VALID CASES 14 MISSING CASES 12

F000Y

V10 BELESGAYARDAN YARARLANIK GORUSU

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
HER YASAR	1	4	15.4	25.8	25.6
BAZI COX	2	8	32.6	57.1	65.7
BAZI KISYEV	3	2	7.7	14.3	100.0
	9	12	46.2	MISSING	
	TOTAL	26	100.0	100.0	

YERK	1.857	STD ERR	3.177	MEDIAN	1.375
YIDE	2.222	STD DEV	2.653	VARIANCE	2.442
KURTOSIS	-0.039	SKEWNESS	0.120	RANGE	2.030
YENIYEV	1.270	MAXIMUM	3.012		

YERK YAGI 14 YERK YAGI 12

-00000

014 KAPAR VER. FON AKIM TAB. KULLANIMI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
KULLANILMAYANLAR	0	12	45.2	50.0	50.0
KULLANILMAKTA	1	12	45.2	50.0	100.0
	9	2	7.7	MISSING	
	TOTAL	26	100.0	100.0	

MEAN	0.500	STD ERR	0.104	MEDIAN	0.000
MODE	0.000	STD DEV	0.511	VARIANCE	0.261
KURTOSIS	-0.200	SKENNESS	0.000	RANGE	1.000
MINIMUM	0.000	YAKINLIK	1.000		

VALID CASES 24 MISSING CASES 2

MADRY

KARSOY VERI, ERGAMES ANCI, KULLANIMI					
ANTERBYR LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	DEV FREQ (PCT)
KULLANILMAYAKTA	3	17	65.4	76.8	77.0
KULLANILYAKTA	1	7	26.8	29.2	29.0
	5	2	7.7	MISSING	
	TOTAL	26	100.0	100.0	

MEAN	2.252	STD ERR	2.055	MEDIAN	-0.714
MODE	2.022	STD DEV	0.454	VARIANCE	0.206
KURTOSIS	-1.313	SKENWISS	2.658	RANGE	1.022
KINIVIK	2.022	MAXIMUM	1.022		

VALID CASES 24 MISSING CASES 2

COPY

V18 KARAR VER. ORAN ANA. KULLANILYI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	QUY. FREQ (PCT)
KULLANILYAKTA	0	9	34.6	27.5	37.5
KULLANILYAKTA	1	15	57.7	62.5	100.0
	9	2	7.7	MISSING	
TOTAL		26	100.0	100.0	

MEAN	0.625	STD ERR	0.101	MEDIAN	0.200
MODE	1.000	STD DEV	0.456	VARIANCE	0.208
KURTOSIS	-1.527	SKEWNESS	-0.484	RANGE	1.000
SKEWNESS	0.200	MAXIMUM	1.200		

VALID CASES 24 MISSING CASES 2

HAPPY

V:7 SABIT VE DEGISKEN YASRAK AYIRIMI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUK FREQ (PCT)
YARILYAKTA	0	13	50.0	50.0	50.0
YARILYAKTA	1	13	50.0	50.0	100.0
	TOTAL	26	100.0	100.0	

MEAN	0.500	STD ERR	0.100	MEDIAN	0.000
MODE	0.000	STD DEV	0.512	VARIANCE	0.260
KURTOSIS	1.070	SKEWNESS	0.000	RANGE	1.000
MINIYUM	0.000	MAXIYUM	1.000		

VALID CASES 26 MISSING CASES 0

APPY

ORBIT VE DEBISKEN YORUM AYRIM DEMLI

ATREDAVY LORE	KODE	ABSOLUTE FREK	RELATIVE FREK (POT)	ADJUSTED FREK (POT)	OLK FREK (POT)
UNU	1	8	33.3	61.5	61.5
EDILIK SABIT	2	3	11.5	53.1	64.2
AY. DEBISKEN	3	2	7.7	53.4	103.2
	4	10	33.0	MISSING	
		25	100.0	100.0	

EV	1.800	SD	2.115	MEDIAN	0.615
ME	2.287	SD	2.770	VARIANCE	2.540
RANGE	2.805	MEAN	2.172	RANGE	2.805
MAX	4.800	MAX	2.800		

KLID CASES 15 MISSING CASES 13

ARMY

REP. SYSTEMS DE UYBULAPADI

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
UYBULAPADI	0	25	57.7	57.7	57.7
UYBULAPADI	1	11	25.3	45.3	100.0
TOTAL		26	100.0	100.0	

MEAN	0.423	STD ERR	0.335	MEDIAN	-0.100
MODE	0.000	STD DEV	0.594	VARIANCE	0.354
CURTOSIS	-1.580	SKEWNESS	0.294	RANGE	1.000
KURTOSIS	0.000	MAXIMUM	1.000		

ALL CASES 26 MISSING CASES 0



COPY

MALI REP. UZUN DONEY PLANLAMA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
DEGIL	0	15	57.7	60.0	50.0
YARDIMCI	1	10	38.5	40.0	100.0
	9	1	3.8	MISSING	
	TOTAL	26	100.0	100.0	

MEAN	2.423	STD ERR	2.120	MEDIAN	-0.250
MODE	0.300	STD DEV	0.500	VARIANCE	0.250
KURTOSIS	-1.526	SKEWNESS	0.307	RANGE	1.000
MINIMUM	0.000	MAXIMUM	1.000		

VALID CASES 25 MISSING CASES 1

HAPPY

VE1 KALI 309. KISA DOKER PLANLAYA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	DUP FREQ (PCT)
DEBIL	0	5	15.2	50.0	50.0
YARDHAT	1	20	76.8	50.0	100.0
	9	1	3.6	MISSING	
	TOTAL	25	100.0	100.0	

MEAN	0.520	STD. DEV.	0.688	MEDIAN	0.375
MODE	1.000	STD. DEV.	0.400	VARIANCE	0.467
KURTOSIS	-2.375	SKEWNESS	-0.400	RANGE	1.000
MINIMUM	0.000	MAXIMUM	1.000		

VALID CASES 25 MISSING CASES 1

HAPPY

V02 YALI ROB. FRYOTLANDIRYA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUY FREQ (PCT)
DEBIL	0	3	11.5	12.0	12.0
YARDEBIL	1	22	24.6	55.7	100.2
	9	1	3.9	MISSING	
TOTAL		26	100.0	100.0	

MEAN	0.069	STD ERR	0.288	MEDIAN	0.400
MODE	1.000	STD DEV	0.333	VARIANCE	0.111
MINIMUM	0.000	RANGE	0.000	RANGE	1.000
MAXIMUM	0.000	MAXIMUM	1.000		

VALID CASES 26 MISSING CASES

H055V

VEE YALI RSP. SATIN ALMA

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	cum FREQ (PCT)
DECEL	0	17	65.4	68.0	68.0
YARDIMDI	1	8	30.8	32.2	100.2
	9	1	3.8	MISSING	
TOTAL		26	100.0	100.0	

MEAN	0.327	STD ERR	0.305	MEDIAN	-0.513
MODE	0.327	STD DEV	2.476	VARIANCE	6.127
MINIMUM	-1.527	SKEWNESS	3.725	RANGE	1.500
MAXIMUM	0.000	MAXIMUM	1.000		

VALID CASES 25 MISSING CASES 1

PAPPY

V04 KALI RAPOR YATERIM

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	UNK FREQ (PCT)
DESI	0	17	55.4	55.0	50.2
YASBANDI	1	8	30.6	32.0	100.2
	9	1	3.8	MISSING	
	TOTAL	26	100.0	102.0	

MEAN	0.320	STD ERR	0.095	MEDIAN	-0.500
MODE	0.000	STD DEV	0.476	VARIANCE	0.227
KURTOSIS	-1.500	SKEWNESS	0.726	RANGE	1.000
MINIMUM	0.000	MAXIMUM	1.000		

VALID CASES 25 MISSING CASES 1

LAPOR

SIR. FOL. DEBERLENDIYEDDE 345

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUM FREQ (PCT)
KULLANILYAKTA	0	1	3.8	3.8	3.8
KULLANILYAKTA	1	25	66.2	95.8	100.0
	TOTAL	26	100.0	100.0	

MEAN	0.962	STD ERR	0.008	MEDIAN	0.400
MODE	1.000	STD DEV	0.196	VARIANCE	0.038
KURTOSIS	10.226	SKENNESS	-4.586	RANGE	1.000
MINIMUM	0.000	MAXIMUM	1.000		

VALID CASES 25 MISSING CASES 0

ADDY

V88 SER. PAAL. DISERLENDIRMEDE K4Z

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUML FREQ (PCT)
KULLANILMAYAN	0	1	3.8	3.8	3.8
KULLANILYAKTA	1	25	96.2	96.2	100.0
TOTAL		26	100.0	100.0	

  

MEAN	0.962	STD ERR	0.228	MEDIAN	0.962
MODE	1.000	STD DEV	2.195	VARIANCE	4.828
KURTOSIS	9.826	SKEWNESS	-4.526	RANGE	1.000
MINIMUM	0.000	MAXIMUM	1.000		

  

VALID CASES	26	MISSING CASES	0
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ADRY

VE7 SIR. FRAM. DEBERLENDORCEDE FON AKIY

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	DWY FREQ (PCT)
KELLANDI-FAVAKTA	1	16	61.5	61.5	61.5
KELLANDI-ILMARTI	1	10	38.5	38.5	38.5
TOTAL		26	100.0	100.0	

MEAN	0.000	STD ERR	3.287	MEDIAN	-0.200
MODE	2.000	STD DEV	31.450	VARIANCE	2.240
KURTOSIS	-1.887	SKEWNESS	2.447	RANGE	1.970
KURTOSIS	2.000	YESTYLE	1.012		

WORLD INDEX 26 MISSING INDEX 0



H03BY

VEB SIR. PARL. DEGERLENDIRMEDE ORAN

CATEGORY LABEL	CODE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	CUY FREQ (PCT)
KULLANILMAYAN	2	17	65.4	65.4	65.4
KULLANILYAN	1	9	34.6	34.6	100.0
TOTAL		26	100.0	100.0	

MEAN	0.346	STD ERR	0.265	MEDIAN	-0.444
MODE	2.000	STD DEV	2.465	VARIANCE	6.075
KURTOSIS	-1.683	SKEWNESS	0.510	RANGE	1.000
MINIMUM	0.000	MAXIMUM	1.000		

VALID CASES N MISSING CASES 2

LEOPY

020 SR. FAAL. DEERLENDYRKEDE FOTDE-AYLIK

CATEGORY LABEL	CASE	ABSOLUTE FREQ	RELATIVE FREQ (PCT)	ADJUSTED FREQ (PCT)	SMY FREQ (PCT)
KILLENIKAKAKTA	0	22	84.8	84.8	84.8
KILLANILKAKYA	1	4	15.4	15.4	15.4
TOTAL		26	100.0	100.0	

MEAN	0.154	STD ERR	0.272	MEDIAN	-0.253
MODE	0.000	STD DEV	0.388	VARIANCE	0.150
ALTIOSIA	1.320	SKENNESE	1.600	RANGE	1.272
MINIMUM	0.000	MAXIMUM	1.000		

VALID CASES 26 MISSING CASES 0

17507 BYTES OF MEMORY FREE.

8300V

46 BRITAIN STATISTICS  
47 FINISH

ADJ COMPLETED

NUMBER OF CONTROL CARDS READ 47  
NUMBER OF ERRORS DETECTED 0

831

## APPENDIX B

## JOINT FREQUENCY DISTRIBUTION

Joint frequency distribution is performed for the following pairs of variables.

- (1) Sales groups by income level (V1-V2).
- (2) Sales groups by investment expenditure (V1-V3).
- (3) Sales groups by the usage of sources and uses statement in managerial decision making (V1-V14).
- (4) Sales groups by the usage of breakeven analysis in managerial decision making (V1-V15).
- (5) Sales groups by the usage of ratio analysis in managerial decision making (V1-V16).
- (6) Sales groups by the classification of costs as variable and fixed costs in the cost accounting systems (V1-V17).
- (7) Sales groups by the type of classification of costs as fixed and variable (V1-V18).
- (8) Sales groups by the application of variable cost accounting in financial internal reporting (V1-V19).
- (9) Sales groups by the usefulness of balance sheet and income statement in long-term planning (V1-V20).
- (10) Sales groups by the usefulness of balance sheet and income statement in short-term planning (V1-V21).
- (11) Sales groups by the usefulness of balance sheet and income statement in pricing decisions (V1-V22).
- (12) Sales groups by the usefulness of balance sheet and income statement in purchasing decisions (V2-V23).
- (13) Sales groups by the usefulness of balance sheet and income statement in investment decisions (V1-V24).

- (14) Sales groups by the usage of balance sheet in evaluating the operations of the company (V1-V25).
- (15) Sales groups by the usage of income statement in evaluating the operations of the company (V1-V26).
- (16) Sales groups by the usage of sources and uses statement in evaluating the operations of the company (V1-V27).
- (17) Sales groups by the usage of ratio analysis in evaluating the operations of the company (V1-V28).
- (18) Sales groups by the usage of monthly budget compared reports in evaluating the operations of the company (V1-V29).
- (19) Income level by investment expenditure (V2-V3).
- (20) Income level by the usage of sources and uses statement in managerial decision making (V2-V14).
- (21) Income level by the usage of breakeven analysis in managerial decision making (V2-V15).
- (22) Income level by the usage of ratio analysis in managerial decision making (V2-V16).
- (23) Income level by the classification of costs as variable and fixed costs in the cost accounting systems (V2-V17).
- (24) Income level by the type of classification of costs as fixed and variable (V2-V17).
- (25) Income level by the application of variable cost accounting in financial internal reporting (V2-V19).
- (26) Income level by the usefulness of balance sheet and income statement in long-term planning (V2-V20).
- (27) Income level by the usefulness of balance sheet and income statement in short-term planning (V2-V21).
- (28) Income level by the usefulness of balance sheet and income statement in pricing decisions (V2-V22).

- (29) Income level by the usefulness of balance sheet and income statement in purchasing decisions (V2-V23).
- (30) Income level by the usefulness of balance sheet and income statement in investment decisions (V2-V24).
- (31) Income level by the usage of balance sheet in evaluating the operations of the company (V2-V25).
- (32) Income level by the usage of income statement in evaluating the operations of the company (V2-V26).
- (33) Income level by the usage of sources and uses statement in evaluating the operations of the company (V2-V27).
- (34) Income level by the usage of ratio analysis in evaluating the operations of the company (V2-V28).
- (35) Income level by the usage of monthly budget compared reports in evaluating the operations of the company (V2-V29).
- (36) The usage of computer in the operations of the company by the classification of costs as variable and fixed costs in the cost accounting system (V5-V17).
- (37) The usage of computer in the operations of the company by the application of variable cost accounting in financial internal reporting (V5-V19).
- (38) The usage of computer in the operations of the company by the usefulness of balance sheet and income statement in long-term planning (V5-V20).
- (39) The usage of computer in the operations of the company by the usefulness of balance sheet and income statement in short-term planning (V5-V21).
- (40) The usage of computer in the operations of the company by the usefulness of balance sheet and income statement in pricing decisions (V5-V22).

(41) The usage of computer in the operations of the company by the usefulness of balance sheet and income statement in purchasing decisions (V5-V23).

(42) The usage of computer in the operations of the company by the usefulness of balance sheet and income statement in investment decisions (V5-V24).

(43) The usage of computer in the operations of the company by the usage of balance sheet in evaluating the operations of the company (V5-V25).

(44) The usage of computer in the operations of the company by the usage of income statement in evaluating the operations of the company (V5-V26).

(45) The usage of computer in the operations of the company by the usage of sources and uses statement in evaluating the operations of the company (V5-V27).

(46) The usage of computer in the operations of the company by the usage of ratio analysis in evaluating the operations of the company (V5-V28).

(47) The usage of computer in the operations of the company by the usage of monthly budget compared reports in evaluating the operations of the company (V5-V29).

(48) The frequency of the preparation of balance sheet and income statement by the classification of costs as variable and fixed costs in the cost accounting systems (V13-V17).

(49) The frequency of the preparation of balance sheet and income statement by the application of variable cost accounting in financial internal reporting (V13-V19).

(50) The frequency of the preparation of balance sheet and income statement by the usefulness of balance sheet and

income statement in long-term planning (V13-V20).

(51) The frequency of the preparation of balance sheet and income statement by the usefulness of balance sheet and income statement in short-term planning (V13-V21).

(52) The frequency of the preparation of balance sheet and income statement by the usefulness of balance sheet and income statement in pricing decisions (V13-V22).

(53) The frequency of the preparation of balance sheet and income statement by the usefulness of balance sheet and income statement in purchasing decisions (V13-V23).

(54) The frequency of the preparation of balance sheet and income statement by the usefulness of balance sheet and income statement in investment decisions (V13-V24).

(55) The frequency of the preparation of balance sheet and income statement by the usage of balance sheet in evaluating the operations of the company (V13-V25).

(56) The frequency of the preparation of balance sheet and income statement by the usage of income statement in evaluating the operations of the company (V13-V26).

(57) The frequency of the preparation of balance sheet and income statement by the usage of sources and uses statement in evaluating the operations of the company (V13-V27).

(58) The frequency of the preparation of balance sheet and income statement by the usage of ratio analysis in evaluating the operations of the company (V13-V28).

(59) The frequency of the preparation of balance sheet and income statement by the usage of monthly budget compared reports in evaluating the operations of the company (V13-V29).



(60) The usage of sources and uses statement in managerial decision making by the application of variable cost accounting in financial internal reporting (V14-V19).

(61) The usage of breakeven analysis in managerial decision making by the application of variable cost accounting in financial internal reporting (V15-V19).

(62) The usage of ratio analysis in managerial decision making by the application of variable cost accounting in financial internal reporting (V16-V19).

(63) The classification of costs as variable and fixed costs in the cost accounting systems by the application of variable cost accounting in financial internal reporting (V17-V19).

(64) The classification of costs as variable and fixed costs in the cost accounting systems by the usefulness of balance sheet and income statement in long-term planning (V17-V20).

(65) The classification of costs as variable and fixed costs in the cost accounting systems by the usefulness of balance sheet and income statement in short-term planning (V17-V21).

(66) The classification of costs as variable and fixed costs in the cost accounting systems by the usefulness of balance sheet and income statement in pricing decisions (V17-V22).

(67) The classification of costs as variable and fixed costs in the cost accounting systems by the usefulness of balance sheet and income statement in purchasing decisions (V17-V23).

(68) The classification of costs as variable and fixed costs in the cost accounting systems by the usefulness of balance sheet and income statement in investment decisions (V17-V24).

(69) The classification of costs as variable and fixed costs in the cost accounting systems by the usage of balance sheet in evaluating the operations of the company (V17-V25).

(70) The classification of costs as variable and fixed costs in the cost accounting systems by the usage of income statement in evaluating the operations of the company (V17-V26).

(71) The classification of costs as variable and fixed costs in the cost accounting systems by the usage of sources and uses statement in evaluating the operations of the company (V17-V27).

(72) The classification of costs as variable and fixed costs in the cost accounting systems by the usage of ratio analysis in evaluating the operations of the company (V17-V28).

(73) The classification of costs as variable and fixed costs in the cost accounting systems by the usage of monthly budget compared reports in evaluating the operations of the company (V17-V29).

(74) The type of classification of costs as fixed and variable by the application of variable cost accounting in financial internal reporting (V18-V19).

(75) The application of variable cost accounting in financial internal reporting by the usefulness of balance sheet and income statement in long-term planning (V19-V20).

- (76) The application of variable cost accounting in financial internal reporting by the usefulness of balance sheet and income statement in short-term planning (V19-V21).
- (77) The application of variable cost accounting in financial internal reporting by the usefulness of balance sheet and income statement in pricing decisions (V19-V22).
- (78) The application of variable cost accounting in financial internal reporting by the usefulness of balance sheet and income statement in purchasing decisions (V19-V23).
- (79) The application of variable cost accounting in financial internal reporting by the usefulness of balance sheet and income statement in investment decisions (V19-V24).
- (80) The application of variable cost accounting in financial internal reporting by the usage of balance sheet in evaluating the operations of the company (V19-V25).
- (81) The application of variable cost accounting in financial internal reporting by the usage of income statement in evaluating the operations of the company (V19-V26).
- (82) The application of variable cost accounting in financial internal reporting by the usage of sources and uses statement in evaluating the operations of the company (V19-V27).
- (83) The application of variable cost accounting in financial internal reporting by the usage of ratio analysis in evaluating the operations of the company (V19-V28).
- (84) The application of variable cost accounting in financial internal reporting by the usage of monthly budget compared reports in evaluating the operations of the company (V19-V29).

(85) The performance in profit over assets ratio by the usage of computer in the operations of the company (V41-V5).

(86) The performance in profit over assets ratio by the frequency of the preparation of balance sheet and income statement (V41-V13).

(87) The performance in profit over assets ratio by the usage of sources and uses statement in managerial decision making (V41-V14).

(88) The performance in profit over assets ratio by the usage of breakeven analysis in managerial decision making (V41-V15).

(89) The performance in profit over assets ratio by the usage of ratio analysis in managerial decision making (V41-V16).

(90) The performance in profit over assets ratio by the classification of costs as variable and fixed costs in the cost accounting systems (V41-V17).

(91) The performance in profit over assets ratio by the type of classification of costs as fixed and variable (V41-V18).

(92) The performance in profit over assets ratio by the application of variable cost accounting in financial internal reporting (V41-V19).

(93) The performance in profit over assets ratio by the usefulness of balance sheet and income statement in long-term planning (V41-V20).

(94) The performance in profit over assets ratio by the usefulness of balance sheet and income statement in short term planning (V41-V21).

(95) The performance in profit over assets ratio by the usefulness of balance sheet and income statement in pricing decisions (V41-V22).

(96) The performance in profit over assets ratio by the usefulness of balance sheet and income statement in purchasing decisions (V41-V23).

(97) The performance in profit over assets ratio by the usefulness of balance sheet and income statement in investment decisions (V41-V24).

(98) The performance in profit over assets ratio by the usage of balance sheet in evaluating the operations of the company (V41-V25).

(99) The performance in profit over assets ratio by the usage of income statement in evaluating the operations of the company (V41-V26).

(100) The performance in profit over assets ratio by the usage of sources and uses statement in evaluating the operations of the company (V41-V27).

(101) The performance in profit over assets ratio by the usage of ratio analysis in evaluating the operations of the company (V41-V28).

(102) The performance in profit over assets ratio by the usage of monthly budget compared reports in evaluating the operations of the company (V41-V29).

(103) The performance in profit over capital stock ratio by the usage of computer in the operations of the company (V61-V5).

(104) The performance in profit over capital stock ratio by the frequency of the preparation of balance sheet and in-

come statement (V61-V13).

(105) The performance in profit over capital stock ratio by the usage of sources and uses statement in managerial decision making (V61-V14).

(106) The performance in profit over capital stock ratio by the usage of breakeven analysis in managerial decision making (V61-V15).

(107) The performance in profit over capital stock ratio by the usage of ratio analysis in managerial decision making (V61-V16).

(108) The performance in profit over capital stock ratio by the classification of costs as variable and fixed costs in the cost accounting systems (V61-V17).

(109) The performance in profit over capital stock ratio by the type of classification of costs as fixed and variable (V61-V18).

(110) The performance in profit over capital stock ratio by the application of variable cost accounting in financial internal reporting (V61-V19).

(111) The performance in profit over capital stock ratio by the usefulness of balance sheet and income statement in long-term planning (V61-V20).

(112) The performance in profit over capital stock ratio by the usefulness of balance sheet and income statement in short-term planning (V61-V21).

(113) The performance in profit over capital stock ratio by the usefulness of balance sheet and income statement in pricing decisions (V61-V22).

(114) The performance in profit over capital stock ratio by the usefulness of balance sheet and income statement in purchasing decisions (V61-V23).

(115) The performance in profit over capital stock ratio by the usefulness of balance sheet and income statement in investment decisions (V61-V24).

(116) The performance in profit over capital stock ratio by the usage of balance sheet in evaluating the operations of the company (V61-V25).

(117) The performance in profit over capital stock ratio by the usage of income statement in evaluating the operations of the company (V61-V26).

(118) The performance in profit over capital stock ratio by the usage of sources and uses statement in evaluating the operations of the company (V61-V27).

(119) The performance in profit over capital stock ratio by the usage of ratio analysis in evaluating the operations of the company (V61-V28).

(120) The performance in profit over capital stock ratio by the usage of monthly budget compared reports in evaluating the operations of the company (V61-V29).

(121) The performance in profit over sales ratio by the usage of computer in the operations of the company (V71-V5).

(122) The performance in profit over sales ratio by the frequency of the preparation of balance sheet and income statement (V71-V13).

(123) The performance in profit over sales ratio by the usage of sources and uses statement in managerial decision making (V71-V14).

- (124) The performance in profit over sales ratio by the usage of breakeven analysis in managerial decision making (V71-V15).
- (125) The performance in profit over sales ratio by the usage of ratio analysis in managerial decision making (V71-V16).
- (126) The performance in profit over sales ratio by the classification of costs as variable and fixed costs in the cost accounting systems (V71-V17).
- (127) The performance in profit over sales ratio by the type of classification of costs as fixed and variable (V71-V18).
- (128) The performance in profit over sales ratio by the application of variable cost accounting in financial internal reporting (V71-V19).
- (129) The performance in profit over sales ratio by the usefulness of balance sheet and income statement in long-term planning (V71-V20).
- (130) The performance in profit over sales ratio by the usefulness of balance sheet and income statement in short-term planning (V71-V21).
- (131) The performance in profit over sales ratio by the usefulness of balance sheet and income statement in pricing decisions (V71-V22).
- (132) The performance in profit over sales ratio by the usefulness of balance sheet and income statement in purchasing decisions (V71-V23).
- (133) The performance in profit over sales ratio by the usefulness of balance sheet and income statement in invest-



ment decisions (V71-V24).

(134) The performance in profit over sales ratio by the usage of balance sheet in evaluating the operations of the company (V71-V25).

(135) The performance in profit over sales ratio by the usage of income statement in evaluating the operations of the company (V71-V26).

(136) The performance in profit over sales ratio by the usage of sources and uses statement in evaluating the operations of the company (V71-V27).

(137) The performance in profit over sales ratio by the usage of ratio analysis in evaluating the operations of the company (V71-V28).

(138) The performance in profit over sales ratio by the usage of monthly budget compared reports in evaluating the operations of the company (V71-V29).

(139) The performance in sales over assets ratio by the usage of computer in the operations of the company (V81-V5).

(140) The performance in sales over assets ratio by the frequency of the preparation of balance sheet and income statement (V81-V13).

(141) The performance in sales over assets ratio by the usage of sources and uses statement in managerial decision making (V81-V14).

(142) The performance in sales over assets ratio by the usage of breakeven analysis in managerial decision making (V81-V15).

(143) The performance in sales over assets ratio by the usage of ratio analysis in managerial decision making (V81-V16).

- (144) The performance in sales over assets ratio by the classification of costs as variable and fixed costs in the cost accounting systems (V81-V17).
- (145) The performance in sales over assets ratio by the type of classification of costs as fixed and variable (V81-V18).
- (146) The performance in sales over assets ratio by the application of variable cost accounting in financial internal reporting (V81-V19).
- (147) The performance in sales over assets ratio by the usefulness of balance sheet and income statement in long-term planning (V81-V20).
- (148) The performance in sales over assets ratio by the usefulness of balance sheet and income statement in short-term planning (V81-V21).
- (149) The performance in sales over assets ratio by the usefulness of balance sheet and income statement in pricing decisions (V81-V22).
- (150) The performance in sales over assets ratio by the usefulness of balance sheet and income statement in purchasing decisions (V81-V23).
- (151) The performance in sales over assets ratio by the usefulness of balance sheet and income statement in investment decisions (V81-V24).
- (152) The performance in sales over assets ratio by the usage of balance sheet in evaluating the operations of the company (V81-V25).
- (153) The performance in sales over assets ratio by the usage of income statement in evaluating the operations of

the company (V81-V26).

(154) The performance in sales over assets ratio by the usage of sources and uses statement in evaluating the operations of the company (V81-V27).

(155) The performance in sales over assets ratio by the usage of ratio analysis in evaluating the operations of the company (V81-V28).

(156) The performance in sales over assets ratio by the usage of monthly budget compared reports in evaluating the operations of the company (V81-V29).

(157) The performance in sales over capital stock ratio by the usage of computer in the operations of the company (V91-V5).

(158) The performance in sales over capital stock ratio by the frequency of the preparation of balance sheet and income statement (V91-V13).

(159) The performance in sales over capital stock ratio by the usage of sources and uses statement in managerial decision making (V91-V14).

(160) The performance in sales over capital stock ratio by the usage of breakeven analysis in managerial decision making (V91-V15).

(161) The performance in sales over capital stock ratio by the usage of ratio analysis in managerial decision making (V91-V16).

(162) The performance in sales over capital stock ratio by the classification of costs as variable and fixed costs in the cost accounting systems (V91-V17).

(163) The performance in sales over capital stock ratio by the type of classification of costs as fixed and variable (V91-V18).

(164) The performance in sales over capital stock ratio by the application of variable cost accounting in financial internal reporting (V91-V19).

(165) The performance in sales over capital stock ratio by the usefulness of balance sheet and income statement in long-term planning (V91-V20).

(166) The performance in sales over capital stock ratio by the usefulness of balance sheet and income statement in short-term planning (V91-V21).

(167) The performance in sales over capital stock ratio by the usefulness of balance sheet and income statement in pricing decisions (V91-V22).

(168) The performance in sales over capital stock ratio by the usefulness of balance sheet and income statement in purchasing decisions (V91-V23).

(169) The performance in sales over capital stock ratio by the usefulness of balance sheet and income statement in investment decisions (V91-V24).

(170) The performance in sales over capital stock ratio by the usage of balance sheet in evaluating the operations of the company (V91-V25).

(170) The performance in sales over capital stock ratio by the usage of income statement in evaluating the operations of the company (V91-V26).

(172) The performance in sales over capital stock ratio by the usage of sources and uses statement in evaluating the

operations of the company (V91-V27).

(173) The performance in sales over capital stock ratio by the usage of ratio analysis in evaluating the operations of the company (V91-V28).

(174) The performance in sales over capital stock ratio by the usage of monthly budget compared reports in evaluating the operations of the company (V91-V29).

TABLE 6  
JOINT FREQUENCY DISTRIBUTIONS

PAIR OF VARIABLES	CHI-SQUARE	DEGREES OF FREEDOM	LEVEL OF CONFIDENCE (%)
V1-V2	39.7789	16	100
V1-V3	32.7321	20	96
V1-V14	2.6667	4	39
V1-V15	5.5261	4	76
V1-V16	4.8711	4	69
V1-V17	8.0909	4	91
V1-V18	3.0153	6	20
V1-V19	5.6703	4	77
V1-V20	7.7083	4	90
V1-V21	3.0208	4	44
V1-V22	5.1136	4	72
V1-V23	4.0135	4	58
V1-V24	3.0944	4	45
V1-V25	1.4182	4	16
V1-V26	1.4182	4	16
V1-V27	5.3231	4	74
V1-V28	4.7788	4	67
V1-V29	2.5472	4	36
V2-V3	25.1230	20	79
V2-V14	3.3333	4	50
V2-V15	5.1765	4	72
V2-V16	0.6519	4	4
V2-V17	5.7576	4	77
V2-V18	4.3333	8	23
V2-V19	4.5840	4	65
V2-V20	10.3030	4	96
V2-V21	2.5095	4	35
V2-V22	2.4019	4	33
V2-V23	5.4548	4	75
V2-V24	0.8175	4	7
V2-V25	12.4800	4	98
V2-V26	1.4182	4	16
V2-V27	4.1068	4	59
V2-V28	1.2642	4	13
V2-V29	3.6529	1	65
V5-V17	5.5714	1	98
V5-V19	2.7351	1	90
V5-V20	1.3258	1	75
V5-V21	3.2873	1	93
V5-V22	4.3388	1	96
V5-V23	1.7236	1	79
V5-V24	0.2017	1	32
V5-V25	0.8914	1	65
V5-V26	1.2133	1	72
V5-V27	0.2476	1	35

(con'd)

PAIR OF VARIABLES	CHI-SQUARE	DEGREES OF FREEDOM	LEVEL OF CONFIDENCE (%)
V5-V28	3.1721	1	92
V5-V29	0.8512	1	61
V13-V17	3.7660	3	70
V13-V19	3.7157	3	69
V13-V20	3.0180	3	59
V13-V21	4.1699	3	75
V13-V22	4.4235	3	77
V13-V23	1.1081	3	22
V13-V24	4.9412	3	81
V13-V25	0.4051	3	6
V13-V26	0.4051	3	6
V13-V27	2.1759	3	27
V13-V28	2.9610	3	68
V13-V29	1.8519	3	39
V14-V19	0.1678	1	30
V15-V19	2.6077	1	89
V16-V19	0.9063	1	63
V17-V19	19.0667	1	100
V17-V20	2.1635	1	84
V17-V21	0.1603	1	29
V17-V22	0.4759	1	51
V17-V23	0.9910	1	65
V17-V24	0.5197	1	52
V17-V25	1.0400	1	67
V17-V26	1.0400	1	67
V17-V27	0.6500	1	56
V17-V28	1.5294	1	77
V17-V29	0.0000	1	0
V18-V19	1.4773	2	52
V19-V20	1.7316	1	79
V19-V21	0.6494	1	56
V19-V22	0.1574	1	29
V19-V23	1.7238	1	79
V19-V24	1.6341	1	78
V19-V25	0.7627	1	59
V19-V26	1.4182	1	76
V19-V27	0.3939	1	46
V19-V28	3.3462	1	93
V19-V29	0.1146	1	26
V41-V5	0.0038	1	6
V41-V13	3.7157	3	69
V41-V14	0.1778	1	30
V41-V15	1.6269	1	78
V41-V16	0.1067	1	25
V41-V17	0.1576	1	29
V41-V18	0.7609	2	31
V41-V19	1.1699	1	71
V41-V20	0.2435	1	35
V41-V21	0.0406	1	14

(con'd)

PAIR OF VARIABLES	CHI-SQUARE	DEGREES OF FREEDOM	LEVEL OF CONFIDENCE (%)
V41-V22	0.1574	1	29
V41-V23	1.6341	1	78
V41-V24	1.6341	1	78
V41-V25	0.7627	1	59
V41-V26	0.7627	1	59
V41-V27	1.0085	1	66
V41-V28	0.0257	1	12
V41-V29	2.0700	1	83
V61-V5	0.3482	1	42
V61-V13	2.9412	3	58
V61-V14	1.8151	1	80
V61-V15	3.7438	1	95
V61-V16	1.6269	1	78
V61-V17	0.0000	1	0
V61-V18	0.4815	2	51
V61-V19	0.2801	1	38
V61-V20	0.4902	1	52
V61-V21	0.4136	1	47
V61-V22	0.0028	1	6
V61-V23	1.7517	1	80
V61-V24	0.2649	1	37
V61-V25	0.4622	1	51
V61-V26	0.4622	1	51
V61-V27	0.8847	1	62
V61-V28	0.4720	1	51
V61-V29	0.8207	1	61
V71-V5	0.6190	1	55
V71-V13	2.3860	3	50
V71-V14	0.0000	1	0
V71-V15	1.8151	1	80
V71-V16	0.1778	1	30
V71-V17	0.1538	1	29
V71-V18	0.2579	2	12
V71-V19	0.4182	1	47
V71-V20	0.4274	1	47
V71-V21	0.1603	1	29
V71-V22	0.2938	1	39
V71-V23	0.5197	1	77
V71-V24	2.4934	1	88
V71-V25	1.0400	1	67
V71-V26	1.0400	1	67
V71-V27	0.0000	1	0
V71-V28	0.1699	1	30
V71-V29	1.1818	1	71
V81-V5	4.3385	1	96
V81-V13	3.0702	3	60
V81-V14	0.0000	1	0
V81-V15	0.6050	1	54
V81-V16	0.0593	1	18

(con'd)



PAIR OF VARIABLES	CHI-SQUARE	DEGREES OF FREEDOM	LEVEL OF CONFIDENCE (%)
V81-V17	0.8667	1	62
V81-V18	0.4815	2	51
V81-V19	1.8962	1	81
V81-V20	0.3289	1	41
V81-V21	0.8772	1	62
V81-V22	0.1628	1	30
V81-V23	0.8530	1	61
V81-V24	4.3602	1	96
V81-V25	0.3120	1	40
V81-V26	3.4667	1	93
V81-V27	0.4388	1	49
V81-V28	0.8157	1	60
V81-V29	0.0098	1	8
V91-V5	1.2424	1	73
V91-V13	3.6155	3	68
V91-V14	0.2017	1	32
V91-V15	0.0017	1	6
V91-V16	2.2723	1	85
V91-V17	0.0000	1	0
V91-V18	2.8287	2	75
V91-V19	0.1094	1	26
V91-V20	0.0306	1	13
V91-V21	2.9412	1	91
V91-V22	0.0028	1	6
V91-V23	0.1635	1	29
V91-V24	0.2649	1	37
V91-V25	0.4622	1	51
V91-V26	0.4622	1	51
V91-V27	0.6500	1	56
V91-V28	1.2084	1	72
V91-V29	0.8207	1	61

The values for the joint distribution of 174 pair of variables are shown in Table 6. The confidence level for each pair of variable is calculated with given the chi-square and degrees of freedom. The chance of having a higher chi-square for the related pair of variable is 100 per cent minus the corresponding level of confidence.

The null hypothesis in this analysis is that there is no relation between the variables in the pair. The confidence level of the pair indicates the level at which the hypothesis be rejected and accept that the variables are dependent. The general accepted level of confidence for statistical analysis purposes is 90 per cent or above.

Depending on the values and results of joint frequency distribution analysis and considering the objective of the research pearson correlation for selected pairs of variables is calculated and shown in Table 7.

The pairs of variables with a confidence level equal or more than 75 per cent are assumed to be systematically related with each other. These pairs are as follows:

(1) Sales groups and income level (V1-V2).

Companies in the highest sales level also belong to the highest income level. As the sales level decreases, the corresponding income level naturally decreases.

(2) Sales groups and investment expenditures (V1-V3).

Companies in high sales groups tend to spent more investment expenditures or companies with high investment expenditures tend to have more sales figure.

(3) Sales groups and the usage of breakeven analysis in managerial decision making (V1-V15).

The 66.6 per cent of the highest sales group companies use breakeven analysis in managerial decision making. As the level of sales decreases, the percentage of using the analysis decreases.

(4) Sales groups and the classification of costs as variable and fixed costs in the cost accounting systems (V1-V17).

All of the companies in the highest sales group and the 75 per cent of the companies in the next highest group classify the costs as fixed and variable. The 66.6 per cent of these companies classify all the costs in the cost accounting system.

(5) Sales groups and the application of variable cost accounting in financial internal reporting (V1-V19).

The 66.6 per cent of the companies in the highest sales group, the 75 per cent of the companies in the next sales group, and the 50 per cent of the companies in the middle sales group apply variable costing in internal reporting system. The 63.6 per cent of the companies in the low sales group and all of the companies in the lowest sales group do not apply the variable costing method.

(6) Sales group and the usefulness of balance sheet and income statement in long-term planning (V1-V20).

All of the companies in the highest sales group find balance sheet and income statement useful in long-term planning. But all of the next highest level companies find the reports unuseful in long-term planning.

(7) Income level and investment expenditures (V2-V3).

As the income level of the companies increase, the investment expenditures spent increase too.

(8) Income level and the classification of costs as variable and fixed costs in the cost accounting systems (V2-V17).

All of the companies in the highest income level, the 50 per cent of the companies in the next highest level, and the 54.5 per cent of middle income level classify costs as variable and fixed. The 83.3 per cent of the lowest income level do not classify costs as such.

(9) Income level and the usefulness of balance sheet and income statement in long-term planning (V2-V20).

All of the companies in the highest income level find these financial reports useful in long-term planning though all of them in the next highest level find unuseful.

(10) Income level and the usefulness of balance sheet and income statement in purchasing decisions (V2-V23).

The 71 per cent of the companies which do not use balance sheet and income statement in purchasing decisions have an income level of more than 500 million Turkish Liras. Seventy five per cent of the companies using the reports have an income less than 500 million Turkish Liras.

(11) Income level and the usage of balance sheet in evaluating the operations of the company (V2-V25).

All the sampled companies except one use balance sheet in evaluation of the company.

(12) The usage of computer in the operations of the company and the classification of costs as variable and fixed

costs in the cost accounting systems (V5-V17).

The 38.4 per cent of the companies use computer and classify costs as variable and fixed, the 34.6 per cent of the companies do not use computer and do not classify costs as variable and fixed. The 71.4 per cent of the computer using companies classify costs as such.

(13) The usage of computer in the operations of the company and the application of variable cost accounting in financial internal reporting (V5-V19).

The 57.1 per cent of the computer using companies apply variable costing and the 75 per cent of the companies that do not use computer do not apply variable costing in internal reporting either. The 72.7 per cent of the companies applying variable costing use computer in their operations.

(14) The usage of the computer in the operations of the company and the usefulness of balance sheet and income statement in long-term planning, in short-term planning, in pricing decisions, and in purchasing decisions (V5-V20/V21/V22/V23).

The 50 per cent of computer using companies find balance sheet and income statement useful in long-term planning, the 92.8 per cent find them useful in short-term planning, the 42.8 per cent find them useful in pricing decisions and the 35.7 per cent find them useful in purchasing decisions. The 70 per cent of the companies finding the reports useful in long-term planning, the 65 per cent of them finding the reports useful in short-term planning, the 63.6 per cent of them finding the reports useful in pricing decisions, and the 75 per cent of them finding the reports useful in purchasing decisions use computer in their operations.

With the usage of computer, the reports prepared become more useful in managerial decision making.

(15) The usage of computer in the operations of the company and the usage of ratio analysis in evaluating the operations of the company (V5-V28).

The 50 per cent of the companies using computer use ratio analysis in their analysis and the 83.3 per cent of the companies not using computer do not use the ratio analysis in the evaluation of the activities of the company. The 77.7 per cent of the companies using the ratio analysis also use computer in their operations.

(16) The frequency of the preparation of balance sheet and income statement and the usefulness of them in short-term and long-term planning (V13-V21/V22).

The 82.3 per cent of the companies preparing the reports monthly use the reports in short-term planning and the 94.1 per cent of the companies preparing the reports monthly use them in long-term planning. The 73.6 per cent of the companies finding the reports useful in short-term planning and the 76.1 per cent of the companies finding the reports useful in long-term planning prepare the reports monthly.

(17) The frequency of the preparation of balance sheet and income statement and the usefulness of them in investment decisions (V13-V24).

The companies using the reports in investment decision prepare them monthly. More than half of the companies which do not use balance sheet and income statement in investment decisions also prepare them monthly.

(18) The usage of breakeven analysis in managerial decision making and the application of variable cost accounting in financial internal reporting (V15-V19).

The 71.4 per cent of the companies which use breakeven technique in the decision making process apply variable costing in internal reporting. The 45.4 per cent of the companies applying variable costing method use breakeven analysis in their managerial decisions. The 64.7 per cent of the companies not applying variable costing do not use breakeven analysis either.

(19) The classification of costs as variable and fixed costs in the cost accounting systems and the application of variable costing method in internal reporting (V17-V19).

The 84.6 per cent of the companies that classify costs as variable and fixed apply variable cost accounting system in internal reporting.

(20) The classification of costs as variable and fixed costs in the cost accounting systems and the usefulness of balance sheet and income statement in long-term planning (V17-V20).

The 70 per cent of the companies finding the financial reports useful in long-term planning classify the costs as variable and fixed. The 53.8 per cent of the companies classifying costs as such find the reports useful in long-term planning. The 36 per cent of the sample size do not classify costs and do not find the reports useful in long-term planning.

(21) The classification of costs as variable and fixed costs and the usage of ratio analysis in evaluating the opera-

tions of the company (V17-V28).

The 66.6 per cent of the companies using ratio analysis in evaluation classify costs as variable and fixed. The 76.9 per cent of the companies that do not classify costs do not use ratio analysis in the evaluation of the activities of the company either.

(22) The application of variable cost accounting in financial internal reporting and the usefulness of balance sheet and income statement in long-term planning and investment decisions (V19-V20/V24).

The 54.5 per cent of the companies applying variable cost accounting find the reports useful in long-term planning. The 60 per cent of the companies finding the reports useful in long-term planning apply variable costing in internal reporting. The 71.4 per cent of the companies not applying variable costing do not find the reports useful in long-term planning. The 62.5 per cent of the companies finding the reports useful in investment decisions apply variable costing and the 78.5 per cent of the companies finding the reports unuseful in investment decisions do not apply variable costing.

(23) The application of variable cost accounting in financial internal reporting and the usefulness of balance sheet and income statement in purchasing decisions (V19-V23).

The 75 per cent of the companies finding the reports useful in purchasing decisions do not employ variable costing in internal reporting. On the contrary, the 52.9 per cent of companies which do not use the reports in purchasing decisions apply variable cost accounting.



(24) The application of variable cost accounting in internal reporting and the usage of income statement in evaluating the operations of the company (V19-V26).

All the companies which do not apply variable costing, use income statement in evaluation process. Almost all the sampled companies, except one, use income statement as an evaluation technique.

(25) The application of variable cost accounting in financial internal reporting and the usage of ratio analysis in evaluating the operations of the company (V19-V28).

The 66.6 per cent of the companies using ratio analysis apply variable costing and the 54.5 per cent of them applying variable costing use ratio analysis in evaluating the operations of the company.

(26) The performance in profit over assets ratio and the usage of breakeven analysis in managerial decision making (V41-V15).

The 80 per cent of the companies that increased their profit over assets ratio do not take advantage of the breakeven analysis. Moreover, the 70.5 per cent of the companies which do not use breakeven analysis have been able to increase their ratios in 1983.

(27) The performance in profit over assets ratio and the usefulness of balance sheet and income statement in purchasing and investing decisions (V41-V23/V24).

Balance sheet and income statement are not found useful by the 78.5 per cent of the companies which increased their profit over assets ratio in purchasing and investing decisions. Above all, the 62.5 per cent of the companies

finding the reports useful in purchasing and investing decisions decreased their ratios.

(28) The performance in profit over assets ratio and the usage of monthly budget compared reports in evaluating the operations of the company (V41-V29).

Only one out of the 26 sample companies use monthly budget compared report in evaluation and increased its profit over asset ratio. The companies which increased their ratios and do not use the monthly report in evaluation total up to the 53.8 per cent.

(29) The performance in profit over capital stock ratio and the usage of sources and uses statement and breakeven analysis in managerial decision making (V61-V14/V16).

The 83.3 per cent of the companies which use sources and uses statement and the 80 per cent of the companies which use breakeven analysis have increased their profit over capital stock ratios in 1983.

The 58.8 per cent of the companies that have increased their ratios use sources and uses statement in managerial decision making and the 70.5 per cent of them use breakeven analysis.

(30) The performance in profit over capital stock ratio and the usage of breakeven analysis in managerial decision making (V61-V15).

Nearly, the 80 per cent of the companies which increased their ratios do not use breakeven analysis. The companies which prefer to use breakeven analysis and increased their ratio total up to the 12.5 per cent of the sample size.

(31) The performance in profit over capital stock ratio and the usefulness of balance sheet and income statement in purchasing decisions (V61-V23).

Balance sheet and income statement are found useful in purchasing decisions from the 23.5 per cent of companies which increased their ratios. Half of the companies which decreased their ratios do not find the reports useful in purchasing decisions.

(32) The performance in profit over sales ratio and the usage of breakeven analysis in managerial decision making (V71-V15).

Breakeven analysis is used by the 41.6 per cent of the companies which decreased their ratios and on the contrary, the 16.6 per cent of the companies which increased their ratios use breakeven analysis in managerial decisions.

(33) The performance in profit over sales ratio and the usefulness of balance sheet and income statement in purchasing and investment decisions (V71-V23/V24).

Balance sheet and income statement are found useful by the 25 per cent of the companies which increased their ratios and the 38.4 per cent of the companies which decreased their ratios, in purchasing decisions. The reports are also found useful by the 16.6 per cent of the companies which increased their ratios and the 46.1 per cent of the companies which decreased their ratios, in investing decisions.

(34) The performance in sales over assets ratio and the usage of computer in the operations of the company (V81-V5).

The 92.8 per cent of computer using companies have performed in sales over assets ratio and the 50 per cent of

the sample have both increased the ratio and use computer in their operations.

(35) The performance in sales over assets ratio and the application of variable cost accounting in financial internal reporting (V81-V19).

Variable costing method is applied by the 35.0 per cent of the companies that increased their ratios and by the 66.6 per cent of them which decreased their ratios in 1983.

(36) The performance in sales over assets ratio and the usefulness of balance sheet and income statement in investment decisions (V81-V24).

The reports are found useful in investment decisions by the 21.0 per cent of the companies that increased their ratios and by the 66.6 per cent of them that decreased their ratios.

(37) The performance in sales over assets ratio and the usage of income statement in evaluating the operations of the company (V81-V26).

The 76.9 per cent of the sample have increased their performance ratio and use income statement in evaluation of the company's performance. All of the companies which have performed well in sales over assets ratio use income statement in evaluation process.

(38) The performance in sales over capital stock ratio and the usage of ratio analysis in managerial decision making (V91-V16).

Ratio analysis is used by the 52.9 per cent of the companies which increased their ratios and by the 85.7 per cent of them that decreased their ratio.

(39) The performance in sales over capital stock ratio and the type of classification of costs as fixed and variable (V91-V18).

The 75 per cent of the companies which classify all the costs as variable and fixed have increased their sales over capital stock ratios. The 66.6 per cent of the increased companies classify all the costs as such.

(40) The performance in sales over capital stock ratio and the usefulness of balance sheet and income statement in short-term planning (V91-V21).

All the companies which decreased their ratios use balance sheet and income statement in short-term planning. All the companies which do not find the reports useful in short-term planning have increased their ratios.

DATE BRANDED BY NR ARE BRANDED

ROW	PER	194	195-500	501-50	101-25	100YN-	ROW
NO	NO	1	2	3	4	5	TOTAL
1504	1	3	0	0	0	0	3
		102.0	0.7	0.0	0.0	0.0	11.0
		102.2	0.7	0.0	0.0	0.0	
		11.0	0.7	0.0	0.0	0.0	
15-104	2	0	0	0	0	0	0
		0.0	25.0	25.0	50.0	0.0	100.0
		0.0	50.0	0.0	50.0	0.0	
		0.0	0.0	0.0	0.0	0.0	
15-104	3	2	2	4	2	0	8
		7.7	0.0	20.0	0.0	0.0	27.7
		0.0	0.0	50.0	0.0	0.0	
		0.0	0.0	15.0	0.0	0.0	
15-104	4	0	1	1	0	1	3
		0.0	0.0	20.0	10.0	30.0	60.0
		0.0	51.0	10.0	50.0	50.0	
		0.0	0.0	17.0	7.0	15.0	
15-104	5	0	0	0	0	0	0
		0.0	0.0	50.0	0.0	50.0	100.0
		0.0	0.0	20.0	0.0	50.0	
		0.0	0.0	7.0	0.0	7.0	
15-104	6	0	0	0	0	0	0
		0.0	0.0	0.0	0.0	0.0	0.0
		0.0	0.0	0.0	0.0	0.0	
		0.0	0.0	0.0	0.0	0.0	
TOTAL		11.0	7.1	40.0	10.0	35.0	103.1

ONE DOLLAR IN FULL VALUE OF DEGREE OF FREEDOM.  
 NUMBER OF PEOPLE IDENTIFIED  
 IN BELLS USED IN A PORTION OF 45 DOLLARS FOR EACH RUN.  
 1997: BASED ON EVERY PAGE.

ESTER BULLOCK

BY 1/14

LABOR USE: ECA OK

COLL		KILSON KULLAN		RDY
RDY	DET	KILSON	KULLAN	TOTAL
RDY	DET	KILSON	KULLAN	
RDY	DET			
		1	2	3
		20.0	20.0	40.0
		3.0	10.0	13.0
		4.0	2.0	6.0
		1	2	3
		25.0	75.0	100.0
		5.0	20.0	25.0
		4.0	10.0	14.0
		3	1	4
		75.0	25.0	100.0
		25.0	0.0	25.0
		10.0	4.0	14.0
		3	1	4
		24.0	50.0	74.0
		1.0	41.0	42.0
		2.0	10.0	12.0
		3	1	4
		21.0	20.0	41.0
		10.0	2.0	12.0
		0.0	1.0	1.0
		12	10	22
		20.0	50.0	70.0

BY ORDER OF THE BOARD OF FREEDOM, RECEIVED OF FREEDOM, 2

ALONG WITH THE BOARD OF FREEDOM, RECEIVED OF FREEDOM, 2

BY ORDER OF THE BOARD OF FREEDOM, RECEIVED OF FREEDOM, 2

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VE	DATE	SCALE	VE	BY	VE	VETERIN	GRUPLOR				
			VE								
			COUNT								
			ROW POT	10M+	1-5M	1K-500	100-50	100MN-	YK	ROW	
			COL POT			MM	ZMM			TOTAL	
			TOT POT	1	2	3	4	5	6	7	
			1	33.3	33.3	0.0	0.0	0.0	0.0	0.0	100.0
			2	100.0	100.0	0.0	14.0	0.0	0.0	0.0	
			3	3.0	3.0	7.7	0.0	0.0	0.0	0.0	
10-10Y			4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			5	0.0	0.0	57.0	05.0	20.0	0.0	0.0	100.0
			6	0.0	0.0	0.0	14.0	0.0	0.0	0.0	
			7	0.0	0.0	7.6	0.0	0.0	0.0	0.0	
0-10Y			8	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0
			9	0.7	0.0	05.0	00.0	0.0	0.0	00.0	100.0
			10	0.0	0.0	05.0	00.0	0.0	0.0	0.0	
			11	0.0	0.0	6.5	7.0	0.0	0.0	0.0	
0-5Y			12	0.0	0.0	1.0	0.0	0.0	0.0	0.0	1.0
			13	0.2	0.2	0.0	10.1	70.7	0.0	0.0	40.0
			14	0.2	0.0	20.0	00.0	00.0	0.0	0.0	
			15	0.0	0.0	1.0	7.0	07.7	0.0	0.0	
0-1Y			16	0.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0
			17	0.0	0.0	0.0	00.0	70.0	0.0	0.0	100.0
			18	0.0	0.0	0.0	14.0	00.0	0.0	0.0	
			19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			29	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			31	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			32	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			33	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			34	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			35	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			36	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			37	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			38	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			39	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			40	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			41	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			42	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			43	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			44	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			45	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			46	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			47	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			49	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			51	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			53	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			54	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			55	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			56	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			57	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			58	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			59	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			60	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			61	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			62	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			63	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			64	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			65	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			66	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			67	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			68	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			69	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			70	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			71	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			72	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			73	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			74	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			75	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			76	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			77	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			78	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			79	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			80	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			81	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			82	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			83	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			84	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			85	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			86	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			87	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			88	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			89	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			90	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			91	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			92	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			93	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			94	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			95	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			96	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			97	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			98	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			99	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			100	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
			TOTAL	0.0	0.0	10.0	00.0	40.0	0.0	100.0	

END SCALE = 00.00 WITH 00 DECREASES OR INCREASES.  
 NUMBER OF POSITIVE OBSERVATIONS = 0

14 CELLS USED OF A MAXIMUM OF 40 CELLS FOR THIS RUN.  
 LEAVE BYTES OF MEMORY FREE.



SALES REPLACES BY V/E KOREA VEP. 50020E

QTY	UNIT	AMOUNT	AMOUNT	TOTAL
QTY	UNIT	AMOUNT	AMOUNT	TOTAL
1		32.0	80.0	112.0
1		8.0	20.0	28.0
1		4.0	8.0	12.0
2		75.0	95.0	170.0
2		17.0	14.0	31.0
2		10.0	4.0	14.0
2		108.0	0.0	108.0
2		88.0	0.0	88.0
2		10.0	0.0	10.0
4		0.0	4.0	4.0
4		82.0	78.0	160.0
4		10.0	17.0	27.0
4		90.0	10.0	100.0
5		0.0	0.0	0.0
5		100.0	0.0	100.0
5		7.0	2.0	9.0
5		10.0	0.0	10.0
TOTAL		70.0	89.0	159.0

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HAPPY

V12 BATES EMPLOYE V15 BY V15 KREBS VER. 0701 01

COLUMN		V12		ROW
ROW	POT	KULLAN	KULLAN	TOTAL
CELL	POT	ELMAYKT	ELMAYKT	
POT	POT	0	1	
1	1	1	0	1
2	1	1	0	1
3	1	1	0	1
4	1	1	0	1
5	1	1	0	1
6	1	1	0	1
7	1	1	0	1
8	1	1	0	1
9	1	1	0	1
10	1	1	0	1
11	1	1	0	1
12	1	1	0	1
13	1	1	0	1
14	1	1	0	1
15	1	1	0	1
16	1	1	0	1
17	1	1	0	1
18	1	1	0	1
19	1	1	0	1
20	1	1	0	1
21	1	1	0	1
22	1	1	0	1
23	1	1	0	1
24	1	1	0	1
25	1	1	0	1
26	1	1	0	1
27	1	1	0	1
28	1	1	0	1
29	1	1	0	1
30	1	1	0	1
31	1	1	0	1
32	1	1	0	1
33	1	1	0	1
34	1	1	0	1
35	1	1	0	1
36	1	1	0	1
37	1	1	0	1
38	1	1	0	1
39	1	1	0	1
40	1	1	0	1
41	1	1	0	1
42	1	1	0	1
43	1	1	0	1
44	1	1	0	1
45	1	1	0	1
46	1	1	0	1
47	1	1	0	1
48	1	1	0	1
49	1	1	0	1
50	1	1	0	1
51	1	1	0	1
52	1	1	0	1
53	1	1	0	1
54	1	1	0	1
55	1	1	0	1
56	1	1	0	1
57	1	1	0	1
58	1	1	0	1
59	1	1	0	1
60	1	1	0	1
61	1	1	0	1
62	1	1	0	1
63	1	1	0	1
64	1	1	0	1
65	1	1	0	1
66	1	1	0	1
67	1	1	0	1
68	1	1	0	1
69	1	1	0	1
70	1	1	0	1
71	1	1	0	1
72	1	1	0	1
73	1	1	0	1
74	1	1	0	1
75	1	1	0	1
76	1	1	0	1
77	1	1	0	1
78	1	1	0	1
79	1	1	0	1
80	1	1	0	1
81	1	1	0	1
82	1	1	0	1
83	1	1	0	1
84	1	1	0	1
85	1	1	0	1
86	1	1	0	1
87	1	1	0	1
88	1	1	0	1
89	1	1	0	1
90	1	1	0	1
91	1	1	0	1
92	1	1	0	1
93	1	1	0	1
94	1	1	0	1
95	1	1	0	1
96	1	1	0	1
97	1	1	0	1
98	1	1	0	1
99	1	1	0	1
100	1	1	0	1
COLUMN TOTAL		27.7	68.5	100.0

NUMBER OF CELLS WITH A DEGREE OF FREEDOM  
 NUMBER OF CLASSIC OBSERVATIONS = 2

2 CELLS USED OF A MAXIMUM OF 45 CELLS FOR THIS ROW.  
 10000 BYTES OF MEMORY USED.

OPTIS BROTLARI

BY V17

SARIT VE DESISKEN KARSI

COUNT		V17		ROW TOTAL
ROW TOT	COL TOT	YARILIK	YARILIK	
TOT POT	POT	YARILIK	YARILIK	
		0	1	
1	0	0	0	0
	0.0	102.0	0	102.0
	0.0	23.0	0	23.0
	0.0	11.0	0	11.0
2	1	0	0	0
	0.0	75.0	0	75.0
	0.0	26.0	0	26.0
	0.0	11.0	0	11.0
3	0	0	0	0
	0.0	50.0	0	50.0
	0.0	18.0	0	18.0
	0.0	7.0	0	7.0
4	0	0	0	0
	0.0	48.0	0	48.0
	0.0	32.0	0	32.0
	0.0	18.0	0	18.0
5	4	0	0	0
	0.0	2.0	0	2.0
	0.0	2.0	0	2.0
	0.0	2.0	0	2.0
6	0	0	0	0
	0.0	27.0	0	27.0
	0.0	17.0	0	17.0
	0.0	17.0	0	17.0

PLEASE NOTE: FIGURES OF FREIGHT...  
 COMMERCIAL RESERVATIONS

USE OF A MAXIMUM OF 48 COLS FOR THIS RUN.  
 BYTES OF MEMORY FREE.

WATER

DATE		GROUP		BY		VIA		SAP		DEBIT	
NO.		NO.		NO.		NO.		NO.		NO.	
1574	1	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0
1575	2	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0
1576	3	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0
1577	4	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0
1578	5	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0	65.0	32.0

ALL GROUPS - 2. THIS WITH 1. DIBBLE AT FRONT.

3. SHALL BEAD OF A VERTICAL OF 12 INCHES FOR THIS 300.

DATE		GROUP		BY		VIA		SAP		DEBIT	
------	--	-------	--	----	--	-----	--	-----	--	-------	--

COLONY		VIB		REK TOTAL
ROW	COL	LYELLA	LYELLA NBAKTA	
1	1	35.0	65.0	100.0
		0.0	10.0	
		2.0	7.0	
2	2	22.0	75.0	97.0
		0.0	27.0	
		5.0	11.0	
3	3	52.0	50.0	102.0
		13.0	16.0	
		7.0	7.0	
4	7	60.0	60.0	120.0
		40.0	30.0	
		20.0	10.0	
5	7	100.0	0.0	100.0
		20.0	0.0	
		10.0	0.0	
TOTAL		37.0	42.0	79.0

1.1 SQUARE = 6,8700 M<sup>2</sup>. 4 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

1. DAILY USE OF A MAXIMUM OF 40 BELLS FOR THIS RIX.  
 100% DATES OF AVERAGE FREE.

COPY

VI 0010 BELPARI BY V20 KALI 007. UZUN 00

		V20		
COUNT		DEBIL	YARDIN	ROW
ROW PCT	COL PCT		CI	TOTAL
TOT PCT		2	1	
V1				
1		0	3	3
15M+		0.0	100.0	12.0
		0.0	30.0	
		0.0	12.0	
2		4	0	4
15-10M		100.0	0.0	16.0
		20.0	0.0	
		16.0	0.0	
3		2	2	4
5-10M		50.0	50.0	16.0
		12.0	20.0	
		0.0	0.0	
4		5	4	10
2-5M		50.0	40.0	40.0
		40.0	40.0	
		20.0	10.0	
5		3	1	4
2M-		75.0	25.0	16.0
		20.0	10.0	
		10.0	0.0	
DELIM		15	10	25
TOTAL		60.0	40.0	100.0

CHI SQUARE = 7.7033 WITH 4 DEGREES OF FREEDOM.  
 NUMBER OF THEORETICAL OBSERVATIONS = 1

0 CELLS LEFT OF A MAXIMUM OF 45 CELLS FOR THIS RUN.  
 18000 BYTES OF MEMORY FREE.

HAPPY

-----  
 01                    BATHS BRUPLARY                    BY V81                    YOLI 80P. KISS DCA  
 -----

COUNT	V81		ROW TOTAL
	DESIG	YARDIM	
ROW POT	DESIG	YARDIM	ROW TOTAL
COL POT	DESIG	YARDIM	ROW TOTAL
TOT POT	DESIG	YARDIM	ROW TOTAL
1	1	2	3
23.0	55.0	13.0	
22.0	10.0		
4.0	8.0		
2	0	4	4
15-10X	0.0	122.0	16.0
	3.0	22.0	
	3.0	16.0	
3	0	4	4
5-12X	0.0	100.0	16.0
	0.0	22.0	
	0.0	10.0	
4	0	7	10
2-5X	30.0	70.0	40.0
	50.0	25.0	
	12.0	20.0	
5	1	3	4
0X-	25.0	75.0	16.0
	22.0	15.0	
	1.0	12.0	
DELIVER	5	20	25
TOTAL	21.0	21.0	100.0

THE FOLLOWING TABLES WITH A DEGREE OF FREEDOM  
 SHOWS THE VARIOUS OPERATIONS =

5 BILLS USED OF A MAXIMUM OF 45 BILLS FOR THIS RUN.  
 1500 BYTES OF MEMORY FREE.

SOME BRUARY

BY VRE

YALI RAB. REYPTLA

VRE

COINVT  
ROW POT  
OBL POT  
TOT TOT

DESI  
YARDIN  
CY

PON  
TOTAL

	1	2	3
15-18X	2	7	3
	0.0	102.0	10.0
	0.0	13.0	
	2.0	10.0	
15-18X	2	7	4
	2.0	100.0	10.0
	2.0	10.1	
	2.0	10.0	
5-12X	2	7	4
	2.0	100.0	10.0
	0.0	10.1	
	0.0	10.0	
1-10X	4	5	7
	20.0	70.0	40.0
	100.0	21.0	
	10.0	10.0	
2X-	2	4	4
	2.0	100.0	10.0
	2.0	10.1	
	0.0	10.0	
	3	22	23
TOTAL	12.0	60.0	100.0

DAY BEFORE A E. ALSO WITH A DEGREE OF FREEDOM  
 INVENTOR OF MESSING OBSERVATION B  
 CELLS USED OF A MAXIMUM OF 45 CELLS FOR THIS ROW.  
 1000 BYTES OF MEMORY FREE.



COUNT		VEG		ROW TOTAL
REN POT	CEL POT	DIGAL	YARDEY	
100 POT	100 POT	0	1	
15Y+	1	1	2	3
		25.0	55.0	80.0
		0.0	25.0	25.0
		4.0	8.0	12.0
15-10Y	2	0	0	0
		120.0	0.0	120.0
		20.0	0.0	20.0
		10.0	0.0	10.0
5-10Y	3	3	1	4
		75.0	25.0	100.0
		10.0	10.0	20.0
		1.7	0.0	1.7
2-5Y	4	5	4	9
		50.0	40.0	90.0
		35.0	30.0	65.0
		24.0	16.0	40.0
0Y	5	5	1	6
		70.0	20.0	90.0
		10.0	10.0	20.0
		15.0	0.0	15.0
		17	0	17
		60.0	10.0	70.0

THE FOLLOWING TABLES WITH A DEGREE OF FREEDOM = 4

TABLE USED OF A MIXTURE OF 16 CELLS FOR THIS RUN. NOTED BY THE FOLLOWING TABLE.

APPDY

-----  
 V1                    BATES BALANCE                    BY V241                    MAIL ROOM VMT1  
 -----

	DEBIT	CREDIT	BALANCE
	100.00		100.00
1-12-71	50.00		50.00
	10.00		40.00
	0.00		40.00
1-15-71	50.00		0.00
	10.00		0.00
	0.00		0.00
1-22-71	50.00		0.00
	10.00		0.00
	0.00		0.00
1-29-71	77.00		0.00
	10.00		0.00
	0.00		0.00
2-5-71	100.00		0.00
	20.00		0.00
	0.00		0.00
	17.00		0.00
	65.00		0.00

CHI-SQUARE = 3.2974 WITH 4 DEGREES OF FREEDOM.  
 NUMBER OF SIGNIFICANT OBSERVATIONS =

8 CELLS USED IN A TOTAL OF 16 CELLS FOR THIS RUN.  
 15707 BYTES OF CORE MEMORY USED.

HAPPY

BY	USE	SR.	FRAM.	DEBRN.
COUNT				
ROW	POT	KILLON	KILLAY	ROW
COL	POT	ILYANA	ILYAKT	TOTAL
TOT	POT	?	?	
1	0	0	0	0
	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0
2	7	4	4	15
	0.2	0.2	0.2	0.6
	0.2	0.2	0.2	0.6
	0.2	0.2	0.2	0.6
3	0	4	4	8
	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0
	0.0	0.0	0.0	0.0
4	1	10	10	21
	0.2	0.2	0.2	0.6
	0.2	0.2	0.2	0.6
	0.2	0.2	0.2	0.6
5	1	4	4	9
	0.2	0.2	0.2	0.6
	0.2	0.2	0.2	0.6
	0.2	0.2	0.2	0.6
DELUXE	1	25	25	51
TOTAL	7.0	55.0	55.0	117.0

OHY BELLES = 1,416L WITH 4 LARVAE OF FREEDOM.  
 MYERS OF WAPPING OBSERVATION = ?

5 BELLS USED IN A KAYAKOR IS 45 BELLS FOR THIS RUN.  
 15788 BYTES OF MEMORY FREE.

VI BASIS BRUPLART BY VSE BTP. PVAL. DNER

		VSE		
COL CT		YELLOW	KILLAN	KOK
DL	RT	ILKAL	ILNKAT	TOTAL
10	10	0	1	
		0	3	3
15M+		2.0	100.2	11.5
		2.0	12.2	
		0.0	11.5	
	2	0	4	4
15-10Y		0.0	102.2	15.3
		2.0	15.0	
		0.0	15.3	
	3	0	4	4
15-10Y		0.0	100.0	15.3
		0.0	15.0	
		2.0	15.3	
	4	1	10	11
		0.0	01.0	10.3
		100.0	00.0	
		3.0	00.1	
	5	0	1	1
2Y-		0.0	100.0	15.3
		0.0	15.0	
		2.0	15.3	
		1	25	26
	TOTAL	2.0	30.1	30.2

CH SQUARE = 2.146 WITH 4 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

0 CELLS USED OR 0 PERCENT OF 45 CELLS FOR THIS RUN.  
 1572 BYTES OF MEMORY FREE.

VZ BOSTON BRIDGERS BY V87 SIR. PAUL WEBER

		V87		
	COUNT	KILLIAN	KILLIAN	ROW
	ROW TOT	ILMONG	ILMONG	TOTAL
	ROW TOT			
15-17	1	60.00	35.00	95.00
		12.00	10.00	
		7.00	3.00	
15-17	2	80.00	40.00	120.00
		10.00	10.00	
		10.00	10.00	
15-17	3	70.00	20.00	90.00
		10.00	10.00	
		10.00	10.00	
15-17	4	80.00	40.00	120.00
		10.00	10.00	
		10.00	10.00	
15-17	5	100.00	20.00	120.00
		10.00	10.00	
		10.00	10.00	
		10.00	10.00	
		10.00	10.00	

RECEIVED BY: [Name] DEPARTMENT OF [Name]  
 DATE: [Date] TIME: [Time]  
 THIS IS ONE OF A COPY SET OF 25 COPIES FOR THIS FILE.  
 5727 BYTES OF WORK

LARRY

COUNT		V28		SER. FEEL. DEGRAD.
ROW	COL	YELLOW	RED	
1	1	0	0	0
100+	1	00.0	00.0	00.0
	1	11.7	11.1	
	1	7.0	0.0	
10-100	2	20.0	70.0	10.0
	2	0.0	00.0	
	2	0.0	11.0	
5-100	3	00.0	00.0	00.0
	3	11.7	00.0	
	3	7.0	7.0	
2-50	4	00.0	00.0	00.0
	4	00.0	00.0	
	4	07.0	7.0	
0-5	5	70.0	00.0	00.0
	5	17.0	11.0	
	5	11.0	0.0	
TOTAL		17	0	00.0
TOTAL		00.0	00.0	00.0

CHI SQUARE = 7.7788 WITH 4 DEGREES OF FREEDOM.  
 NUMBER OF OBSERVED OBSERVATIONS = 3

10 MB IS USED BY A FAMILY OF 45 CELLS FOR THIS RUN.  
 10000 BYTES OF MEMORY FILE.

BBBY

SATIS SQUARE

BY VES

SIR. PAUL. DEGERLEN

COUNT	VES		TOTAL
	NOV POT	ALWAYS	
1	0	1	1
2	66.0	88.0	154.0
3	9.0	88.0	97.0
4	7.0	0.0	7.0
5	4	0	4
6	100.0	0.0	100.0
7	10.0	0.0	10.0
8	10.0	0.0	10.0
9	70.0	88.0	158.0
10	10.0	88.0	98.0
11	11.0	0.0	11.0
12	0	0	0
13	0.0	110.0	110.0
14	70.0	110.0	180.0
15	0.0	1.0	1.0
16	0	0	0
17	100.0	0.0	100.0
18	10.0	0.0	10.0
19	10.0	0.0	10.0
COLLYN	20	4	24
TOTAL	24.0	10.0	34.0

2 SQUARE = 2. EATS WITH 4 DEGREES OF FREEDOM.  
 NBER OF KISSING INDICATORS = 2

CELLS USED OF 6 MAXIMUM OF 40 CELLS FOR THIS RUN.  
 501 BYTES OF MEMORY USED.

SPRY

COUNT		V2					PK	ROW TOTAL
ROW	COL	12Y4	1-5Y	1Y-5Z2	132-52	122YV-		
101	102	1	2	4	5	6	7	
1	1	1	1	1	1	2	2	13
1	2	32.2	32.2	8.2	32.3	8.2	8.2	111.3
1	3	122.2	122.2	8.2	14.2	8.2	2.2	
1	4	2.2	2.2	2.2	2.2	2.2	2.2	
2	1	2	2	1	2	1	2	2
2	2	2.2	2.2	52.2	2.2	52.2	2.2	71.2
2	3	2.2	2.2	22.2	2.2	2.2	2.2	
2	4	2.2	2.2	2.2	2.2	2.2	2.2	
3	1	2	2	2	3	5	1	11
3	2	2.2	2.2	26.2	27.2	42.4	2.2	122.2
3	3	2.2	2.2	22.2	42.2	41.2	122.2	42.2
3	4	2.2	2.2	2.2	11.2	12.2	2.2	
4	1	2	2	1	2	1	2	2
4	2	2.2	2.2	22.2	22.2	22.2	2.2	72.2
4	3	2.2	2.2	22.2	22.2	2.2	2.2	
4	4	2.2	2.2	2.2	7.2	2.2	2.2	
5	1	2	2	1	1	2	2	2
5	2	2.2	2.2	2.2	12.2	22.2	2.2	22.2
5	3	2.2	2.2	2.2	14.2	41.2	2.2	
5	4	2.2	2.2	2.2	2.2	22.2	2.2	
TOTAL	1	2	2	4	7	12	2	22
TOTAL	2	2.2	2.2	15.2	22.2	42.2	2.2	122.2

11 STARS = 20,122: WFT OF DEGREE OF FREEDOM.  
 LINE OF KIDING OPERATIONS = 2

6 CILLS USED OF A MAXIMUM OF 42 CILLS FOR THIS RUN.  
 1222 BYTES OF MEMORY USED.



HARRY

----- KAR BRUPLART BY V14 KARAR VER. FOR AKI -----

ROW	DOT	V14		ROW TOTAL
		KULLAN	KULLAN	
DO	DOT	ILYANA	ILYANA	
OT	DOT			
1		00,00	00,00	00,00
2		00,00	00,00	00,00
3		00,00	00,00	00,00
4		00,00	00,00	00,00
5		00,00	00,00	00,00
6		00,00	00,00	00,00
7		00,00	00,00	00,00
8		00,00	00,00	00,00
9		00,00	00,00	00,00
10		00,00	00,00	00,00
11		00,00	00,00	00,00
12		00,00	00,00	00,00
13		00,00	00,00	00,00
14		00,00	00,00	00,00
15		00,00	00,00	00,00
16		00,00	00,00	00,00
17		00,00	00,00	00,00
18		00,00	00,00	00,00
19		00,00	00,00	00,00
20		00,00	00,00	00,00
21		00,00	00,00	00,00
22		00,00	00,00	00,00
23		00,00	00,00	00,00
24		00,00	00,00	00,00
25		00,00	00,00	00,00
26		00,00	00,00	00,00
27		00,00	00,00	00,00
28		00,00	00,00	00,00
29		00,00	00,00	00,00
30		00,00	00,00	00,00
31		00,00	00,00	00,00
32		00,00	00,00	00,00
33		00,00	00,00	00,00
34		00,00	00,00	00,00
35		00,00	00,00	00,00
36		00,00	00,00	00,00
37		00,00	00,00	00,00
38		00,00	00,00	00,00
39		00,00	00,00	00,00
40		00,00	00,00	00,00
41		00,00	00,00	00,00
42		00,00	00,00	00,00
43		00,00	00,00	00,00
44		00,00	00,00	00,00
45		00,00	00,00	00,00
46		00,00	00,00	00,00
47		00,00	00,00	00,00
48		00,00	00,00	00,00
49		00,00	00,00	00,00
50		00,00	00,00	00,00
51		00,00	00,00	00,00
52		00,00	00,00	00,00
53		00,00	00,00	00,00
54		00,00	00,00	00,00
55		00,00	00,00	00,00
56		00,00	00,00	00,00
57		00,00	00,00	00,00
58		00,00	00,00	00,00
59		00,00	00,00	00,00
60		00,00	00,00	00,00
61		00,00	00,00	00,00
62		00,00	00,00	00,00
63		00,00	00,00	00,00
64		00,00	00,00	00,00
65		00,00	00,00	00,00
66		00,00	00,00	00,00
67		00,00	00,00	00,00
68		00,00	00,00	00,00
69		00,00	00,00	00,00
70		00,00	00,00	00,00
71		00,00	00,00	00,00
72		00,00	00,00	00,00
73		00,00	00,00	00,00
74		00,00	00,00	00,00
75		00,00	00,00	00,00
76		00,00	00,00	00,00
77		00,00	00,00	00,00
78		00,00	00,00	00,00
79		00,00	00,00	00,00
80		00,00	00,00	00,00
81		00,00	00,00	00,00
82		00,00	00,00	00,00
83		00,00	00,00	00,00
84		00,00	00,00	00,00
85		00,00	00,00	00,00
86		00,00	00,00	00,00
87		00,00	00,00	00,00
88		00,00	00,00	00,00
89		00,00	00,00	00,00
90		00,00	00,00	00,00
91		00,00	00,00	00,00
92		00,00	00,00	00,00
93		00,00	00,00	00,00
94		00,00	00,00	00,00
95		00,00	00,00	00,00
96		00,00	00,00	00,00
97		00,00	00,00	00,00
98		00,00	00,00	00,00
99		00,00	00,00	00,00
100		00,00	00,00	00,00
COLUMN TOTAL		00,00	00,00	00,00

NO SQUARE = 0, 0000 WITH 4 DECIMALS OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

NO CELLS USED OR A MAXIMUM OF 25 CELLS FOR THIS ROW.  
 2512 BYTES OF MEMORY USED.

18897

VE	KAR VER. (1-8)	BY	V15	KARAR VER. BASIS
	COUNT			
	ROW POT	CELLS ON	CELLS	ROW
	COL POT	CELLS	CELLS	TOTAL
	ROW POT	8	1	
VE	1	28.8	11.7	40.5
1M-		28.8	28.8	57.6
		8.8	28.8	
		4.1	8.8	
	2	28.8	14.2	43.0
1M-220M		28.8	28.8	57.6
		8.8	14.2	
		4.1	4.1	
	3	28.8	11.7	40.5
252-227M		28.8	14.2	43.0
		17.8	4.1	
	4	28.8	8.8	37.6
100-223M		28.8	28.8	57.6
		11.7	28.8	
		11.7	8.8	
	5	28.8	8.8	37.6
100M-		28.8	16.8	45.6
		28.8	14.2	
		21.2	4.1	
	COLUMN	17	7	24
	TOTAL	71.6	28.1	99.7

DNE SQUARE = 5, 1788 WITH 4 ADDRESS OF FREEDOM.  
 NUMBER OF MISSING IDENTIFICATION = 2

10 CELLS USED OF A MAXIMUM OF 48 CELLS FOR THIS RUN.  
 18888 BYTES OF MEMORY FREE.

LEPPY

-----  
 VB KARAR BRUPELEND BY V16 KARAR VER. DRAN 2  
 -----

VB	COUNT	V16		TOTAL
		ADILAN	ADILAN	
RDK POT		ADILAN	ADILAN	TOTAL
COL POT		ADILAN	ADILAN	
TOT POT		ADILAN	ADILAN	TOTAL
1	1	1	2	
334		32.8	88.8	121.6
		11.1	13.8	24.9
		4.1	8.3	12.4
2	1	1	2	3
34-334		58.2	58.2	116.4
		11.1	8.8	19.9
		4.1	4.1	8.2
3	1	1	2	3
35-334		44.2	58.8	103.0
		24.0	23.8	47.8
		18.0	26.0	44.0
4	1	1	2	3
36-334		35.8	70.8	106.6
		11.1	28.8	39.9
		4.1	16.8	20.9
5	1	1	2	3
37-334		38.8	28.8	67.6
		22.8	22.8	45.6
		8.8	16.8	25.6
TOTAL		17.8	28.8	46.6

DR SQUARE = 8.8816 WITH 4 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

10 CELLS USED IF A MAXIMUM OF 48 CELLS FOR THIS RUN.  
 15556 BYTES OF MEMORY USED.

ADDPY

-----  
 VE                    KSR BR/PLANT                    BY    VIB                    SBBBT VE DESIGNS

VE	COUNT ROW POT COL POT TOT POT	VIB			ROW TOTAL
		TUNE	DOUBLY		
			H. BARS	RE. BARS	
1	2	3			
100	1	66.0	33.0	0.0	33.0
		33.0	33.0	0.0	
		13.0	7.0	0.0	
10-5000	2	100.0	0.0	0.0	1
		10.0	0.0	0.0	7.0
		7.0	0.0	0.0	
250-5000	3	50.0	50.0	10.0	5
		37.0	30.0	32.0	
		23.0	18.0	7.0	
100-2000	4	50.0	0.0	0.0	0
		10.0	0.0	0.0	10.0
		7.0	0.0	7.0	
10000-	5	100.0	0.0	0.0	0
		10.0	0.0	0.0	7.0
		7.0	0.0	0.0	
	DELAYS	0	2	2	10
	TOTAL	21.0	22.0	10.0	100.0

FOR SOLAR = 4.0000 IN 8 DEGREE OF FREEDOM.  
 NUMBER OF WISSES OBSERVED = 10

5 CELLS USED IN A MATH OF 40 CELLS FOR THIS RUN.  
 10000 BY 10000 OF VELOCITY FREE.

READY

VE KDR 0810 0810 BY V15 R00, SIGTEYUADI

VE	COUNT	V15		ROW TOTAL
		LYEYLA	LYEYLA	
		INXAKK	INXAKK	
1		1	2	3
		35.3	35.3	70.6
		6.2	12.1	
		3.8	7.6	
2		2	2	4
		102.2	0.0	102.2
		15.6	0.0	
		7.8	0.0	
3		5	5	10
		45.4	54.5	99.9
		22.8	54.5	
		19.2	22.8	
4		2	2	4
		52.2	59.2	111.4
		15.6	18.1	
		7.8	7.6	
5		5	1	6
		22.8	18.1	40.9
		22.8	0.0	
		19.2	3.8	
	COLUMNS	18	17	35
	TOTAL	57.8	40.8	98.6

DPI SCORE = 4.5842 WITH 4 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

5 CELLS USED OF A MAXIMUM OF 48 CELLS FOR THIS RUN.  
 1536 BYTES OF MEMORY FREE.

LOOPY

-----  
 VE KAR BRUPLARZ BY M22 YALI KAR. UZUN DGI  
 -----

VE	COUNT ROW PBT COL PBT TOT PBT	VE7		TOTAL
		DEPT 0	YARDIM 01	
1		8	0	8
174		2.8	100.8	103.6
		2.8	20.2	
		2.0	12.2	
2		8	0	8
17-50000		100.8	2.8	103.6
		13.8	0.0	
		8.8	0.0	
3		8	0	8
227-50000		48.4	54.8	103.2
		33.8	60.8	
		20.8	84.8	
4		2	0	2
120-25000		120.8	0.2	121.0
		20.8	0.2	
		0.2	0.2	
5		0	0	0
18200-		20.2	32.2	52.4
		20.2	12.2	
		10.2	2.2	
		10	10	20
TOTAL		80.2	171.2	251.4

DE. STOPS = 20.0000000 / NUMBER OF FREEDOM.  
 NUMBER OF PROBING DEPRIVATIONS =

VEBLS DEED OF A MAX. MAX OF 45 CELLS FOR THIS RUN. A  
 DEED BY THE OF MEMORY RATE.

4000Y

-----  
 VE CAR BR/PLANE BY VBI MULTI REP. KISHA D  
 -----

VE	COUNT ROW TOT COL TOT TOT PCT	VBI		BIB TOTAL
		DESEL B	YARD/W CI	
1000	1	33.3	66.6	100.0
10-50000	2	0.0	100.0	100.0
200-50000	3	27.8	72.7	100.0
100-20000	4	25.0	75.0	100.0
100000	5	2.0	178.0	180.0
		33.3	67.0	100.0

CHI SQUARE = 2.0755 WITH 4 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS =

5 CELLS HAD A ZERO IN AT LEAST ONE OF THE COLUMNS FOR THIS RUN.  
 10483 BYTES OF MEMORY USED.

1000Y

-----  
 12 KAR BRUPLER1 BY VBE PAUL RAA, FYRRLA  
 -----

VE	COUNT ROW TOT COL TOT TOT TOT	VBE		TOT TOTAL
		DEPR	APPR	
		0	1	
VE	1	0	3	3
1K+		0.0	100.0	100.0
		0.0	10.0	
		0.0	89.7	
1K-52000	2	0	2	2
		0.0	100.0	100.0
		0.0	0.0	
		0.0	0.0	
250-52000	6	0	6	6
		16.7	83.3	100.0
		66.7	33.3	
		0.0	100.0	
100-25000	4	1	3	4
		25.0	75.0	100.0
		10.0	90.0	
		0.0	100.0	
10000	0	0	0	0
		0.0	100.0	100.0
		0.0	10.0	
		0.0	89.7	
		0.0	100.0	
		0	0	0
		10.0	89.7	100.0

THE SOURCE IS ELITE 101 - A DEGREE OF FREEDOM  
 UNDER THE AMERICAN CONSTITUTION

7 BALLS USED IN A BOXING OF 18 BILLS FOR THIS RUN.  
 LEAVE EYES OF OTHERS OPEN.



APPY

-----  
 NR DR. (L) VBS  
 -----

COUNT		VBS		ROW TOTAL
ROW	COL	DOUBLE	YARDY	
DL	DT		DT	
TOT	TOT			
1	1	1	1	2
		33.3	33.3	66.6
		5.0	25.0	30.0
		4.2	3.8	8.0
2	2	2	2	4
		122.4	0.2	122.6
		11.7	0.0	11.7
		0.0	0.0	0.0
3	3	3	3	6
		81.3	18.1	99.4
		52.0	35.3	87.3
		36.3	0.3	36.6
4	4	4	4	8
		71.3	35.0	106.3
		17.5	12.5	30.0
		10.1	7.8	17.9
5	5	5	5	10
		40.2	68.3	108.5
		11.7	27.5	39.2
		3.2	12.3	15.5
DOLLAR		17	8	25
TOTAL		26.1	11.8	37.9

IT SOURCE = 8.4848 (00) 4 DEGREE OF FREEDOM  
 TYPE OF VBS; NO OBSERVATION = 1

CELLS USED OF A MAXIMUM OF 48 CELLS FOR THIS PLAN  
 1448 BYTES OF MEMORY USED.

APPY

VE	CA	GROUP	BY	VE4	CALL	POWER	NET	ROW
VE4								
COUNT								
FOR	FOR	1160	1	1	1	1	1	1
ICL	FOR		1	1	1	1	1	1
NET	FOR		1	1	1	1	1	1

VE	1	3	1	3				
10-		56.5	33.5	12.0				
		11.7	15.5					
		5.0	4.0					
	8	1	1	2				
10-8000		57.0	50.0	2.0				
		5.5	10.5					
		4.0	4.0					
	3	7	4	11				
250-5000		53.0	35.2	14.0				
		41.1	50.0					
		22.1	15.0					
	4	5	1	6				
100-1000		75.0	25.2	15.0				
		7.6	12.5					
		13.0	3.0					
	5	0	1	1				
1000		30.0	25.2	12.0				
		33.5	14.5					
		15.0	4.0					
	TOTAL		17	8	25			
			62.7	31.0	172.0			

THE ABOVE IS A SUMMARY OF THE SERVICES OF FRIENDS.  
 NO PART OF THIS REPORT SHOULD BE USED

IF THIS IS USED OF A PRIVATELY OWNED OR CONTROLLED BY THIS PARTY.  
 UNDER THE FEDERAL RADIO ACT

copy

-----  
 BY VSE  
 -----  
 GRA. PAAL. DIBERLEN  
 -----

		VSE		
COUNT				
ROW	COL	CELLS	BYTES	ROW
NO.	NO.	USED	USED	TOTAL
1	2	3	4	5
1	1	0	0	0
1	2	0.2	102.0	11.0
1	3	0.2	12.0	
1	4	2.0	11.0	
2	1	1	1	2
2	2	52.0	50.0	7.0
2	3	100.0	4.0	
2	4	0.0	0.0	
3	1	0	11	11
3	2	1.0	100.0	42.0
3	3	0.0	44.0	
3	4	2.0	42.0	
4	1	0	4	4
4	2	0.0	100.0	10.0
4	3	1.0	10.0	
4	4	0.0	10.0	
5	1	0	5	5
5	2	3.2	100.0	23.0
5	3	1.0	20.0	
5	4	0.0	23.0	
CELLS		1	25	26
TOTAL		2.0	51.0	100.0

41 SQUARE = 2,700 WITH / DEGREE OF FREEDOM.  
 CHECK IF MISSING OPERATIONS =

CELLS USED OF A MAXIMUM OF 40 CELLS FOR THIS RUN.  
 5100 BYTES OF MEMORY FREE.

COPY

KAP STAPLARI

BY VSE

SR. PAAL. DERBLE

VSE

DEBIT

ROW	PET	KILLAN	KILLAN	ROW
DOL	PET	KILLAN	KILLAN	TOTAL
ROW	PET	0	0	

1	0	0	0	0
	0.0	100.0		100.0
	0.0	10.0		
	0.0	10.0		

2	0	0	0	0
	0.0	100.0		100.0
	0.0	0.0		
	0.0	7.5		

3	0	0	0	0
	0.0	00.0		00.0
	100.0	47.0		147.0
	0.0	00.0		

4	0	0	0	0
	0.0	100.0		100.0
	0.0	10.0		
	0.0	10.0		

5	0	0	0	0
	0.0	100.0		100.0
	0.0	00.0		
	0.0	00.0		

COLUMN	1	05	05
TOTAL	0.0	210.0	100.0

NO SOURCE = CLAIMED WITH 4 DEGREES OF FREEDOM.  
 LYSIS OF MODES 7 OBSERVATIONS = 0

CELLS USED OF A MAXIMUM OF 40 CELLS FOR THIS RUN.  
 5287 BYTES OF MEMORY FREE.

uprav

VE KAR BRILJANI BY V87 SIR. PAUL. DEGERLE

		V87		
DEPT		KILLIN	KILLIN	20%
ROW	COL	ELMAYR	ELMAYR	TOTAL
TOT	TOT	2	1	
1		2	2	4
		68.8	33.2	102.0
		12.3	10.7	23.0
		7.2	2.8	10.0
2		2	2	4
14-223-1X		2.2	172.8	175.0
		2.2	22.7	24.9
		2.6	7.5	10.1
3		8	3	11
253-533-1X		72.7	27.2	100.0
		52.6	32.7	85.3
		32.7	11.2	43.9
4		2	2	4
100-250-1X		22.0	22.0	44.0
		12.5	22.2	34.7
		7.5	7.8	15.3
5		2	2	4
100-250-1X		22.0	22.0	44.0
		22.0	22.0	44.0
		15.3	7.2	22.5
COLUMN		16	13	29
TOTAL		61.5	35.4	96.9

THE SOURCE = 4,1228 WITH A DEGREE OF FREEDOM  
 NUMBER OF MISSING OBSERVATIONS = 2

8 BILLS LOAN OF A MAXIMUM OF 45 BILLS FOR THREE HRS.  
 15240 BYTES OF MEMORY FREE.

HAPPY

-----  
 V2 K9R GROUPING BY V88 SIX. PAAL. DEBERLEN  
 -----

V2	COUNT	V88		SUM TOTAL
		KEL 1A	KEL 0A	
		ILKAYS	ILKAKT	
	ROW POT COL ROW TOT POT	2	1	
		2	1	3
1M+		55.6	53.3	111.9
		11.7	11.1	
		7.6	3.8	
		1	1	2
1Y-502YK		59.8	58.9	71.8
		8.2	11.1	
		3.8	3.6	
		9	3	11
503-533YK		73.7	97.0	169.3
		47.8	38.3	
		39.7	11.8	
		3	1	4
104-250YK		78.3	35.3	109.9
		17.8	11.7	
		11.5	3.8	
		5	1	6
100YK-		50.4	50.7	63.3
		17.6	32.3	
		11.8	11.8	
	TOTAL	17	2	26
	TOTAL	25.3	31.2	100.2

THE ABOVE = 1,2048 WITH 4 INDEXES OF FREQUEN.  
 NUMBER OF FIRING OBSERVATIONS = 2

12 CELLS USED OF A MAXIMUM OF 48 CELLS FOR THIS RUN.  
 15385 BYTES OF MEMORY FREE.

HAPPY

-----  
 V2                    KAR BRILLIANT                    BY V25                    STR. FACIL. DEGREE  
 -----

		V25		
COUNT				
ROW POT.	KULLAN	KULLAN	ROW	
DEL POT	ILYANE	ILYANE	TOTAL	
TOT POT	0	0		
1	0	0	0	0
	68.0	68.0	136.0	
	9.0	9.0	18.0	
	7.5	7.5	15.0	
2	0	0	0	0
1Y-500YN	100.0	100.0	200.0	
	9.0	9.0	18.0	
	7.5	7.5	15.0	
3	10	10	20	20.0
250-500MN	50.0	50.0	100.0	
	15.0	15.0	30.0	
	30.0	30.0	60.0	
4	4	4	8	8.0
100-250YN	100.0	100.0	200.0	
	10.0	10.0	20.0	
	15.0	15.0	30.0	
5	0	0	0	0
100YN-	60.0	60.0	120.0	
	11.0	11.0	22.0	
	10.0	10.0	20.0	
COLUMA	00	0	0	
TOTAL	84.0	84.0	168.0	

CHI SQUARE = 3.6886 WITH 4 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

6 CELLS USED OR A MAXIMUM OF 40 CELLS FOR THIS RUN.  
 10000 BYTES OF MEMORY FREE.

BİLGİSAYAR KULLANIMI

BY V17

SABİT VE DEĞİŞKEN

COUNT		V17		ROW TOTAL
ROW POT	COL POT	YAPILM	YAPILM	
DEL POT	AMAKTA	OKTA		
TOT POT	2	1		
0	0	0	0	0
1	75.0	25.0	46.1	100.0
2	55.0	51.0		106.0
3	34.0	11.0		45.0
4	4	10	14	14
5	22.5	71.4	93.9	93.9
6	22.7	78.8	101.5	101.5
7	19.0	29.4	48.4	48.4
COLUMN	10	10	20	
TOTAL	50.0	50.0	100.0	

CHI SQUARE = 5.6714 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

CELLS USED OF 0 MAXIMUM OF 60 CELLS FOR THIS RUN.  
 1967 BYTES OF MEMORY FREE.



KAPAY

-----  
 VS BELGIBAYAR KULLANIYI BY VLS RAP. SİSTEYİNDE DİK  
 -----

COUNT	VLS		ROW
	UYBULA	UYBULA	
ROW POT	NUMERAK	NUMAKTA	TOTAL
TOT POT	0	1	
VS			
4	5	3	10
YERARLANMAYAN	75.0	25.0	45.0
	50.0	27.5	
	34.6	11.5	
1	5	9	14
YERARLANAN	40.0	57.1	53.0
	40.0	72.7	
	23.0	30.7	
DOLAN	15	11	25
TOTAL	57.5	42.3	100.7

CHI SQUARE = 2.7251 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

4 CELLS USED OF A MAXIMUM OF 60 CELLS FOR THIS RUN.  
 16503 BYTES OF MEMORY USED.

HAPPY

VS ----- PİLETSAYAR KULLANIMI BY V80 1 KALI RAP. UZUN DÖN -----

		V80		
COUNT		DESL	YARDIM	ROW
ROW POT			CI	TOTAL
COL POT				
TOT POT		2	1	
VS	2	2	3	11
YARARLANMAYAN		72.7	27.3	44.0
		53.3	33.3	
		32.0	12.0	
	1	7	7	14
YARARLANAN		53.3	53.3	55.0
		46.6	73.3	
		28.0	28.0	
COLUMN		15	12	25
TOTAL		60.0	43.3	100.0

CHI SQUARE = 1.3255 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 BELLS USED OF A MAXIMUM OF 50 BELLS FOR THIS RUN.  
 19945 BYTES OF MEMORY FREE.

COPY

BYLISNBAYAR KULLANIMI

BY VBI

HALI RAP. KISA DON

5

COUNT		VBI		TOTAL
ROW	COL	DECI	YARDIM	
ROW	COL	DECI	YARDIM	TOTAL
ROW	COL	DECI	YARDIM	TOTAL
2		4	7	11
DEKLARASYON		36.3	62.3	98.6
		58.2	62.3	120.5
		16.0	66.6	82.6
1		1	10	11
DEKLARASYON		7.1	62.6	69.7
		60.9	62.6	123.5
		4.3	62.6	66.9
DEKLARASYON		5	22	27
TOTAL		66.2	82.7	148.9

CHI SQUARE = 3.9873 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS =

CELLS USED OF A MAXIMUM OF 50 CELLS FOR THIS RUN.  
 6528 BYTES OF MEMORY USED.

COPY

VE BELGELER KULLANIMI BY V00 NOLİ RAD. FİYATL

COUNT		VE0		ROW TOTAL
ROW PCT	COL PCT	DEERL	YARDIM	
TOT PCT		0	1	
VE				
	0	0	0	0
YARARLANMIYAN		27.0	70.7	44.0
		100.0	20.0	
		10.0	20.0	
	1	0	14	14
YARARLANAN		2.0	100.0	50.0
		0.0	00.0	
		0.0	55.0	
COLUMN TOTAL		0	20	20
		10.0	00.0	100.0

CHI SQUARE = 4.2228 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

3 CELLS USED OF A MAXIMUM OF 60 CELLS FOR THIS RUN.  
 10000 BYTES OF MEMORY FREE.

copy

VS                      SULEBICOMYAT KULLONING                      BY      VRS                      KALLI RAD. GATEIN 9

VS	COUNT	VRS		SUM TOTAL
		DEBIL	YARDOK	
	ROW POT	DEBIL	YARDOK	
	COL POT			
	TOT POT	0	1	
9		0	0	0
VARARLAN KOYAN		81.0	16.0	44.0
		58.0	25.0	
		36.0	6.0	
1		0	5	14
VARARLANSA		57.0	42.0	56.0
		17.0	75.0	
		30.0	24.0	
		17	8	25
	TOTAL	58.0	38.0	100.0

CHI SQUARE = 1.7236 WITH 2 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 CELLS USED OF A TOTAL OF 60 CELLS FOR THIS RUN.  
 18818 BYTES OF MEMORY FREE.

COPY

-----  
 VE                    ETLEBİSAYAN KULLANIMI                    ZY    V24                    MALI HESAP YATIR  
 -----

VE	DUNY BÖLÜM DOL. BİT ZARF BÖL	V24		BÖL TOTAL
		ETLEBİSAYAN	YARDIM OL	
		0	1	
VE				
	0	8	2	11
YARARLANAN		72.7	27.2	100.0
		73.2	27.5	
		32.2	12.2	
	1	0	0	10
YARARLANAN		64.2	25.7	90.0
		62.0	22.0	
		36.2	20.0	
		17	8	25
TOTAL		62.0	22.0	84.0

CHI SQUARE = 0.0017 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

A CELL IS USED OF A MAXIMUM OF 50 CELLS FOR THIS ROW.  
 1987 BY THE UNIVERSITY OF MICHIGAN.

-----  
 VS                    BELGIBAYAR KULLANIKI                    BY VSE                    GIS. FAAL. DEBET  
 -----

		V25		
COUNT				
ROW POT		KULLAN	KULLAN	ROW
DEL POT		ILMAMA	ILMAMA	TOTAL
TOT POT		0	1	
VS				
	0	0	12	12
YORARLANAYAN		0.0	100.0	46.1
		0.0	40.2	
		0.0	46.1	
	1	1	10	14
YORARLANAN		7.1	92.6	53.8
		100.0	50.2	
		3.8	50.4	
COLUMN		1	25	26
TOTAL		3.8	56.1	100.0

CHI SQUARE = 0.8914 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

3 CELLS USED OF A MAXIMUM OF 60 CELLS FOR THIS RUN.  
 16000 BYTES OF MEMORY FREE.

HAPPY.

VB BILGISAYAR KULLANIMI BY VBE STR. FAAL. DEFENL

		VBE		
COUNT				
ROW	COL	KULLAN	KULLAN	ROW
COL	COL	ILYAMA	ILYAMA	TOTAL
COL	COL	2	1	
VB				
	2	1	11	12
YARARLANIRYAN		8.3	91.5	45.1
		102.2	44.3	
		3.8	42.3	
	1	0	14	14
YARARLANAN		0.0	122.2	52.8
		7.3	56.6	
		0.0	53.8	
COLUMN		1	25	26
TOTAL		3.8	66.1	122.2

CHI SQUARE = 1.2121 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 3

3 CELLS LOST OF A MAXIMUM OF 62 CELLS FOR THIS ROW.  
 16636 BYTES OF MEMORY FREE.



PARRY

VE BY VE7 SIR. FOOT. DEGR

VE	COUNT	VE7		TOTAL
		KULLON	KULLON	
ROW POT		21.0%	21.0%	
COL POT		3	1	
TOT POT				
VARARLAWAYON	2	5	4	12
		66.5	33.2	45.1
		32.0	43.0	
		32.7	15.2	
VARARLONAN	1	3	6	24
		57.1	72.8	32.6
		52.8	68.2	
		32.7	22.8	
COLUMN		16	10	25
TOTAL		61.2	38.4	100.0

ONE SQUARE = 0.2476 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

4 CELLS USED OR A MAXIMUM OF 68 CELLS FOR THIS RUN.  
 16888 BYTES OF MEMORY FREE.

-COPY

-----  
 V5                    BULGARIAN KULLANIMI                    BY    V28                    STR. F00L. DEGR  
 -----

	COUNT	V28		ROW COL TOT	KULLAN KULLAN KULLAN	KULLAN KULLAN KULLAN	ROW COL TOT	
		KULLAN						TOTAL
		KULLAN	KULLAN					
V5	0	12	0	12				
YARASLANAYAN		63.2	19.6	46.1				
		58.0	22.0					
		36.4	7.6					
YARARLANAN	1	7	7	14				
		52.0	52.0	52.0				
		41.1	77.7					
		26.0	26.0					
COLLXN		17	0	26				
TOTAL		65.2	24.6	102.0				

CHI SQUARE = 2.1721 WITH 1 DEGREES OF FREEDOM,  
 NUMBER OF MISSING OBSERVATIONS = 0

4 CELLS USED OF A MAXIMUM OF 50 CELLS FOR THIS RUN.  
 10000 BYTES OF MEMORY FREE.

HAPPY

-----  
 VE BY VES SIR. FROG. DEE  
 -----

		VES		
OPBAT		KULLPA	AVLEPA	REN
REN SET		ILYANA	ILYBAT	TOTAL
REN SET		?	?	
VE				
	0	11	1	12
YDEPRLAWIYANA		81.8	8.2	48.1
		87.8	25.0	
		48.8	3.8	
	1	11	2	14
YARRLAWAN		78.8	21.4	53.0
		88.8	78.8	
		48.8	11.8	
COLLYN		22	4	26
TOTAL		84.8	15.8	102.2

ONE SCORE = 2.2512 WITH 1 BEARER OF FREDDY.  
 NUMBER OF KISSING OBSERVATIONS = 2

A BELLS USED OF A MAXIMUM OF 22 BELLS FOR THIS RUN.  
 80888 BYING OF HAYORY FREE.

00000

-----  
 V16 S+8 VE K+Z HAYATLAMA BİMLİ BY V17 SABİT VE DEĞİŞKEN  
 -----

V16	V17		ROW	
	YAPILY	YAPILY	TOTAL	
AYLIK	2	1		
1	0	1	1	
AYLIK	8.8	100.0	108.8	
	2.0	2.0	4.0	
	0.0	2.0	2.0	
2	5	0	5	
AYLIK	50.0	50.0	100.0	
	60.0	75.0	135.0	
	35.0	35.0	70.0	
3	4	1	5	
10 AYLIK	88.0	88.0	176.0	
	38.7	0.0	38.7	
	10.0	4.0	14.0	
4	2	1	3	
1000 AYLIK	2.0	100.0	102.0	
	1.0	0.0	1.0	
	0.0	4.0	4.0	
TOPLAM	10	10	20	
TOTAL	21.0	40.0	61.0	

THE POLICE = 3.7500 HAY. 0 DEGREE OF FREEDOM.

LOSER OF RISKING OBSERVATIONS =

\* SHOULD BE USED IF 4 MAXIMUM OF 0% BILLS FOR THIS PLAN.

\* 0% BILLS OF RISKING TAKE.

LAPPY

V13 E+8 VE K+Z HAZIRLAMA SIKLI BY V19 REP. BISTEKINDE D

		V15		
COUNT		UYGULA	UYGULA	RDH
ROW POT	COL POT	ANAKOK	MAKTA	TOTAL
TOT POT		0	1	
V13				
1		0	1	1
HAFTALIK		0.0	100.0	4.0
		0.0	0.0	
		0.0	4.0	
2		18	6	18
AYLIK		55.0	44.0	72.0
		71.4	72.7	
		42.0	32.0	
3		4	1	5
30 AYLIK		20.0	20.0	20.0
		22.0	0.0	
		10.0	4.0	
4		7	1	1
300 AYLIK		0.0	100.0	4.0
		0.0	0.0	
		0.0	4.0	
COLUMN		14	11	25
TOTAL		53.0	44.0	130.0

CHI SQUARE = 2.7157 WITH 3 DEGREES OF FREEDOM.

NUMBER OF MISSING OBSERVATIONS =

0 DILLS USED OF A MAXIMUM OF 62 DILLS FOR THIS RUN.  
16768 BYTES OF MEMORY USED.

HARRY

VIC B-S VE K-2 HAZIRLANA GIK BY V20 KALI 902. UZUN DO

VIC	DELYN		V20		ROW TOTAL
	FOR POT	ROT POT	DEBIL	YARDIN DE	
	1	2	1	2	
HAFTALIK	1	3	1	1	4
		2.0	100.0	4.1	
		0.9	11.1		
		0.3	4.1		
AYLIK	2	13	7	17	37
		50.0	41.1	70.0	
		22.0	77.7		
		41.0	25.1		
30 AYLIK	3	4	1	5	10
		20.0	20.0	20.0	
		20.0	11.1		
		10.0	4.1		
60 AYLIK	4	1	2	3	6
		100.0	0.0	4.1	
		0.0	0.0		
		0.0	0.0		
DELYN TOTAL	15	5	24		
TOTAL	30.0	27.0	100.0		

THE SQUARE = 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000

1. DEALS USED IN A ... OF 67 CELLS FOR THIS RUN.  
 10757 BYTES OF MEMORY USED.

FORM

-----  
 VLE                    B+S VE KAS    PRTPLANE BIKL    BY    VLE                    FOLI EOP.    WIRA DO  
 -----

VLE	COUNT	VEI		TOTAL
		DEEL	YADRY	
	ROW	COL	COL	
	1	2	3	
HASTALIK	1	1	3	4
		133.3	6.0	139.3
		23.3	3.0	26.3
CYLIK	2	7	14	21
		17.5	62.3	79.8
		33.0	73.6	106.6
UC CYLIK	3	4	4	8
		23.3	12.3	35.6
		33.0	21.2	54.2
KENT AYLIK	4	2	7	9
		3.7	133.3	137.0
		3.0	51.2	54.2
TOTAL	5	14	34	48
		21.0	73.6	94.6

1-1 SOURCE =                    /                    1                    1                    1                    1  
 NUMBER OF ASSIGNED                    1                    1                    1                    1

1 BELLS USED OF A                    1                    1                    1                    1  
 1973 PRICES OF                    1                    1                    1                    1

COPY

013 8+8 VE. KAZI HAZIRLAYA BIRL. BY V22 YOLU RAP. FIYATLAN

COUNT		V22		TOTAL
ROW	BY	(DEB)	YARDIM	
013	1	0	1	1
HAFTALIK		0.0	120.7	4.1
		0.0	4.7	
		0.0	4.1	
	2	1	10	11
AYLIK		5.0	50.1	70.8
		01.0	30.1	
		4.1	20.0	
	3	0	4	5
3 AYLIK		40.0	60.0	20.0
		50.0	14.0	
		0.0	10.0	
	4	0	1	1
4 AYLIK		0.0	120.0	4.1
		0.0	4.7	
		0.0	4.1	
SOLUK		0	0	0
TOTAL		10.0	27.0	100.0

NO. SQUARE = 4, 422 WITH 3 DEGREES OF FREEDOM.  
 UNIT OF VALUE 2 DEGREE OF FREEDOM 5

BEING USED OF 5 MONTHS OF 00 DILLS FOR THIS RUN.  
 ALSO BY THE OF VARIOUS FREE.



HAPPY

V13 B+S VE K+I HAZIRLANAN BAYL BY V22 YALDI KATI GÖTÜRÜMÜ

V13	COUNT	V22		ROW TOTAL
		DEERL	YARDIM	
ROW TOT	COL TOT	1	2	TOTAL
1	1	1	2	3
HAFTALIK		122.2	3.8	126.0
		5.6	0.8	6.4
		4.1	0.3	4.4
2	12	12	5	17
AYLIK		72.5	25.4	97.9
		72.5	71.4	143.9
		52.8	22.8	75.6
3	3	3	2	5
3 AYLIK		62.2	43.0	105.2
		17.6	26.5	44.1
		12.5	8.3	20.8
4	1	1	2	3
DORT AYLIK		122.2	3.8	126.0
		5.6	0.8	6.4
		4.1	0.3	4.4
COLLTA	27	17	7	24
TOTAL	72.9	25.1	32.0	107.9

CHI SQUARE = 1.1021 WITH 2 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

5 CELLS USED OF A MAXIMUM OF 62 CELLS FOR THIS ROW.  
 16716 BYTES OF MEMORY FREE.

0000

013 E-8 VE K-7 FAZIRLARA B'AL BY V84 KALI RAPOR YATIRIK

		V84		
COUNT				
ROW	DOT	DESTEK	YARDIM	ROW
COL	PER		DE	TOTAL
NO	NO	0	1	
1		1	2	1
ARTALIK		100.0	0.0	4.1
		6.0	0.2	
		4.1	0.2	
2		5	2	17
AYLIK		52.0	47.0	73.6
		50.0	100.0	
		37.0	33.0	
3		5	3	5
3 AYLIK		100.0	3.0	20.0
		31.0	0.0	
		20.0	0.0	
4		1	2	1
4 AYLIK		100.0	0.0	4.1
		1.0	0.2	
		4.1	0.0	
COUNT		16	6	24
TOTAL		10.0	32.0	100.0

1-4 SQUARE # 4,5412 KITI 0 DEGREE OF FREEDOM  
 DEGREE OF FREEDOM DESTINATION = 0

CELLS USED OF A FAMILY OF 60 CELLS FOR THIS ROW  
 6000 BYTES OF MEMORY USED.

COPY

-----  
 VUE                    PVE VE 4-7 HAZIRLAMA SURE    BY    VBS                    GPR. PAUL. DEBER.  
 -----

VUE	RELAT	JDS		TOK TOTAL
		KULLAN ILYAMA	KULLAN ILMAMA	
	1	2	1	3
HASTALIK		2.7	131.8	4.8
		2.8	4.1	
		3.0	4.8	
	2	1	17	18
AYLIK		5.5	54.4	72.8
		132.8	78.8	
		4.2	55.2	
	3	2	5	5
20 AYLIK		9.8	188.8	22.8
		3.2	22.8	
		6.2	20.2	
	4	2	1	3
20 AYLIK		2.2	188.2	4.8
		3.3	4.1	
		2.0	4.8	
		1	24	25
	TOTAL	4.7	55.2	122.8

DAY EQUATION =            6.4551 401%    3 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS =            1

5 BELLE HIND AT A LOWLY OF 21.0418 FOR THIS RUN.  
 18888 BYTES OF MEMORY USED.

COPY

-----  
 12 2-8 VE 447 4021414 81.4 3V VEE 81R. 804.1 28781.1  
 -----

		VEE		
LINE	ROW	ALL	ALL	ROW
NO	NO	WAYS	WAYS	TOTAL
NO	NO	0	1	
	1	0	1	1
NETALIK		0.0	100.0	4.0
		0.0	4.0	
		0.0	4.0	
	2	1	17	18
YLIX		5.0	84.0	72.0
		100.0	72.0	
		4.0	58.0	
	3	0	0	0
AYLIX		0.0	100.0	50.0
		0.0	20.0	
		0.0	20.0	
	4	0	1	1
ORT AYLIX		0.0	100.0	4.0
		0.0	4.0	
		0.0	4.0	
			84	85
DELTA				
TOTAL		4.0	88.0	100.0

12 SQUARE # 3 LABEL WITH 3 DECIMALS OF PRECISION.  
 UNDER IF MISSING OBSERVATIONS = 1

CELLS USED OF A MAXIMUM OF 20 CELLS FOR 11.19 ROW.  
 1000 BYTES OF MEMORY FREE.

ADRY

----- S+8 VE K+Z HAZIRLANA SIKL BY V27 GIR. FAAL. DEBERLE -----

		V27		
COUNT				
ROW POT	KULLAN	KULLAN	ROW	
COL POT	ILMAMA	ILMAKT	TOTAL	
TOT POT	2	1		
13				
1	.0	.1	.1	
AFTALIK	2.0	100.0	4.0	
	8.2	10.2		
	2.0	4.2		
2	11	7	18	
AYLIK	61.1	38.8	73.0	
	73.3	78.2		
	44.2	28.2		
3	3	2	5	
AYLIK	50.0	40.2	20.2	
	20.0	20.2		
	12.0	8.2		
4	1	0	1	
ORT AYLIK	100.0	0.2	4.0	
	6.6	0.0		
	4.2	0.0		
COLUMN	15	10	25	
TOTAL	60.2	40.2	100.2	

CHI SQUARE = 2.1759 WITH 3 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

CELLS USED OF A MAXIMUM OF 80 CELLS FOR THIS RUN.  
 6654 BYTES OF MEMORY FREE.

ADRY

V13 B+S VE KAZ HAZIRLAMA BIK. ZY V28 SIR. FAAL. DESER.

V13	COUNT	V28		ROW TOTAL
		MILLION	MILLION	
	REV PCT	ILYAMA	ILYAKT	
	DEL PCT			
	TOT PCT	0	1	
V13				
HAFTALIK	1	1.0	3.0	4.0
		6.2	3.0	
		4.0	3.0	
AYLIK	2	11.0	7.0	18.0
		51.1	38.8	72.0
		22.7	77.7	
		44.0	22.0	
3 AYLIK	3	4.0	1.0	5.0
		22.0	22.0	22.0
		25.7	21.1	
		15.0	4.0	
3 AYLIK	4	3.0	1.0	4.0
		3.0	11.1	
		3.0	4.0	
COLUMN TOTAL		10	5	25
TOTAL		24.0	35.0	129.0

NO COLS = 2 MISSING WITH 2 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

1 CELLS USED OF A MAXIMUM OF 10 CELLS FOR THIS RUN.  
 1962 SYMS OF MIXED FILE.

COPY

848 VE KAZ HADIRLAMA BIRIM BY V85

SIR. PAUL. DEBERLEA

2

ETALIK

YLK

AYLIK

AYLIK

SOLAN		V85		RDW TOTAL
RDW	ROT	AVLON	AVLON	
RDW	ROT	AVLON	AVLON	
TOT	ROT	2	2	
1		1	0	1
100.0		0.0		4.0
4.7		0.0		
4.0		0.2		
2		14	4	18
77.7		22.2		72.0
65.6		100.0		
55.0		15.0		
3		5	0	5
100.0		0.0		20.7
22.0		0.2		
20.7		0.0		
4		1	0	1
100.0		0.0		4.0
4.7		0.0		
4.0		0.0		
TOTAL		21	4	25
TOTAL		24.0	25.2	22.7

1 SOURCE = 1.8516 111 2 DERESE OF FREDDY.  
 334 IF 118516 OBSERV LINE = 1

WILL LESS OF 1 111111 11 22 11111 1111 1111  
 120 BYTES OF MEMORY FREE.

copy

-----  
 V11            RANGE    VER.    FOR    RAIN    FOR.    BY    V18            REP.    SYSTEM    CASE    D  
 -----

		V18		
COUNT	NO.    INT	LYELLA	LYELLA	ROW
	NO.    INT	LYELLA	LYELLA	TOTAL
	NO.    INT	6	1	
V18	3	7	5	12
COLLAPSED    100/100		58.3	41.7	58.3
		52.5	45.4	
		25.1	20.2	
	6	6	6	12
FULLANILAKOTA		52.5	52.5	52.5
		45.1	54.5	
		25.2	25.2	
COLUMN	13	11	84	
TOTAL	54.2	45.2	103.2	

CHI SQUARE = 2.1575 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 5

\* BELLS USED OF 2 YOUNG OF 50 BELLS FOR THIS RUN.  
 1983: BYTES OF MEMORY FREE.



----- KARAR VER. BAREBAR PVA. K BY V19 RAP. SISTERENDE D

		V19		
COUNT				
ROW TOT	LYGULA	LVBOLA	ROW	
COL TOT	NYAKKA	NYAKKA	TOTAL	
TOT PER	2	1		
3	17	6	23	17
ALLANILYAKKA	64.7	25.0	70.0	70.0
	64.8	24.8		
	45.8	25.0		
1	5	5	10	7
ALLANILYAKKA	26.5	70.4	25.1	25.1
	15.3	45.4		
	8.3	20.5		
DELTA	13	11	24	
TOTAL	54.1	45.8	100.0	

CHI SQUARE = 8.8277 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 3

CELLS USED OR A MAXIMUM OF 10 CELLS FOR THIS R...  
 8819 BYTES OF MEMORY FREE.

HARRY

-----  
 V15                    KARRER VER. ORG. ANZ. KULL BY V19                    RAP. SYSTEMINDE D  
 -----

		V15		
COUNT		UVELLA	UYELLA	ROW
ROW	COL	INXAKK	YAKTA	TOTAL
"OT	PO"	2	1	
V15				
0		6	3	9
KULLANILYAKTA		58.6	33.2	37.5
		46.1	27.2	
		25.2	12.5	
1		7	8	15
KULLANILYAKTA		46.8	53.2	52.5
		53.9	72.7	
		29.1	32.3	
COLUMN		13	11	24
TOTAL		57.1	45.2	130.2

THE SQUARE = 0.0225 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 3

4 CELLS USED OF A MAXIMUM OF 54 CELLS FOR THIS RUN.  
 16896 BYTES OF MEMORY FREE.

ADP

.....  
 V17            SPIN    VE    DEGREE    SPIN    BY    V16                            REP.    SYSTEM    INDE :  
 .....

		V16		
COUNT				
ROW	REP	LEVEL1	LEVEL2	REP
REP	REP	LEVEL1	LEVEL2	TOTAL
REP	REP			
V17				
	2	12	1	13
Y001_Y002		103.7	0.3	104.0
		35.5	2.3	
		34.7	0.3	
	1	8	11	19
Y001_Y002		13.3	34.3	47.6
		10.3	122.0	
		7.5	45.2	
		15	11	26
	TOTAL	27.0	42.2	69.2

ONE SQUARE = 19.8857 WITH 1 DEGREE OF FREEDOM,  
 NUMBER OF MISSING OBSERVATIONS = 0

0 CELLS USED OF 8 Y001 OR 87 CELLS FOR THIS RUN.  
 (8888 BYTES OF MEMORY FREE)

FARRY

V17      SMDIT VE DESIBION NABEAT      BY      USE      YOLS REP. LIZIN DE

		V20		
DEINT		DEBIL	YFEDIN	ROW
ROW	POT		DE	TOTAL
COL	POT			
TOT	POT	0	1	
V17				
	0	0	0	0
YAFILNAXAKTA		75.0	22.0	48.0
		68.0	30.0	
		30.0	12.0	
	1	6	7	13
YAFILNOKTA		42.0	52.0	52.0
		42.0	72.0	
		24.0	20.0	
DOLVIN		15	10	25
TOTAL		60.0	42.0	100.0

ONE SQUARE = 2,1628 WYTH      1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS =

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 10000 BYTES OF MEMORY FREE.

007

017 CASIR VE DEYIKEN APERAF BY VES KAL: RAR. KIOS DE

GRUP	VEZ		YARDIM	KEL
	PER	YEREL		
0	5	15	20	12
YAPILYANAKTA	10.0	30.0	40.0	48.0
	40.0	50.0		
	6.2	43.0		
1	3	10	13	13
YAPILYANAKTA	53.7	70.0	52.0	52.0
	52.0	50.0		
	12.3	43.0		
GRUPUN	5	20	23	23
TOTAL	27.0	53.0	121.0	

ALL SQUARE = 3.1075 WITH 1 COURSED OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

A BELLS LEAD OF A MAXIMUM OF 27 BELLS FOR THIS CELL.  
 15544 BYTES OF MEMORY USED.

HAPPY

V17 GABRIT VE DEBIRKIN KASRAF BY V22 MALI RAB. FIYATLA

		V22		
DDUNT		DEBIL	YARDIM	ROW
ROW POT			DI	TOTAL
COL POT				
TOT POT		0	1	
V17	2	2	10	12
VARILYAKTA		10.0	52.2	62.2
		50.0	48.4	
		0.0	43.0	
	1	1	10	10
VARILYAKTA		7.0	52.2	59.2
		32.2	54.0	
		1.0	48.2	
COLUMN		3	28	31
TOTAL		10.0	88.2	98.2

CHI SQUARE = 0.4756 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 18535 BYTES OF MEMORY FREE.

RTY

17 GABIT VE DEBYOVEN YAGORF BY VOB VOLT RAP. BATAV AL

		VOB		
DEBYOVEN		DEBYOVEN	YAGORF	ROW
ADM POT	DEBYOVEN		DEBYOVEN	TOTAL
ADM POT				
TOT POT		3	1	
2	7	5	12	
DEBYOVEN	58.3	41.6	48.8	
	41.1	62.5		
	28.2	28.2		
1	12	5	12	
DEBYOVEN	75.8	23.3	52.2	
	35.8	37.5		
	42.2	12.2		
DEBYOVEN	17	2	25	
TOTAL	28.8	22.2	100.2	

ONE SQUARE = 3.6610 METERS 1 DEGREE OF FREQUENCY  
 NUMBER OF WINDING OBSERVATIONS = 1

CELLS USED BY A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 5000 BYTES OF MEMORY FREE.

CREDIT VI DEBISKEN KADRAF BY V24 MALI RAPOR YATIRIM

		V24		
COUNT		DEBIL	YARDIM	ROW
SEX	PCT		DI	TOTAL
COL	PCT			
ROW	PCT			
7		2	1	
DILKAYAKTA	2	9	3	12
		75.0	25.0	100.0
		52.9	37.5	
		38.2	18.7	
		<hr/>		
DILYAKTA	1	5	5	10
		61.9	38.4	100.2
		47.0	62.5	
		32.2	20.3	
		<hr/>		
COLUMN		17	8	25
TOTAL		68.8	32.9	101.8

0.5197 WITH 1 DEGREE OF FREEDOM.  
 TEST OF MISSING OBSERVATIONS =

CELLS WITH 0 A MAXIMUM OF 57 CELLS FOR THIS ROW.  
 AND BY THE OF A VERY FEW.



1989

----- BASIC VE DELETED FROM BY VEE SIR. PAUL. DEGREE -----

COUNT	VEE		TOTAL
	WILLIAM	WILLIAM	
ROW SET	WILLIAM	WILLIAM	
COL SET	WILLIAM	WILLIAM	
ROW SET	WILLIAM	WILLIAM	
0	9	13	22
WILLIAM	0.0	100.0	100.0
	0.0	52.0	
	0.0	52.0	
1	1	15	16
WILLIAM	7.5	22.5	30.0
	100.0	45.0	
	5.0	40.0	
WILLIAM	1	20	21
TOTAL	5.5	95.1	100.6

1 SQUARE = 1.0400 WITH 1 DEGREE OF FREEDOM.  
LAPLACE IF MISSING OBSERVATIONS = 0

THIS USED OF A VARIETY OF BY CELLS FOR THIS RUN.  
5327 BYTES IN MEMORY FREE.

APPY

717 ERBIT VE DEDEKIN YADRAF BY VBE SIR. PAAL. DEBERLO

		VBE		
DEKIN				
ROW	POT	KULLAN	WILLAN	SIR
DEL	POT	YILMANA	ALINAT	TOTAL
TOT	POT	0	1	
717	0	0	10	10
YAPILMAMAKTA		0.0	100.0	50.1
		0.0	00.0	
		0.0	00.0	
	1	1	10	10
YAPILMAMAKTA		7.6	92.4	50.0
		100.0	40.0	
		0.0	40.0	
DEKIN		1	20	20
TOTAL		0.0	50.0	100.0

011 DEKIN 0.2000 SIR. 1 DEKIN 10 FREEDY  
 NUMBER OF MISSING OBSERVATIONS = 2

717 DALLS USED OF A MAXIMUM OF 27 DALLS FOR THIS RUN.  
 10000 BY THE IF NEEDED FROM

14000

VE7 SOUTHWEST ALASKA SERVICE BY VE7 AIR, FOOL, DEBER

VE7			
CLASS	NO. OF	NO. OF	NO. OF
VE7	VE7	VE7	VE7
VE7	9	7	16
VE7	60.2	52.7	112.9
VE7	35.2	70.7	
VE7	34.8	15.3	
VE7	7	6	13
VE7	50.8	42.1	92.9
VE7	41.7	52.4	
VE7	25.9	23.2	
VE7	15	12	27
VE7	61.8	36.4	98.2

NO. OF SQUARE = 6,421.5 MVA NO. OF SQUARE OF FREQUENCY  
 NUMBER OF MISSING OBSERVATIONS = 0

FIELD LOG OF S. VE7... BY ST. DEBER FOR THIS...  
 PARTS BY THE OF VE7... FREE.

POV

7

SARIT VE DESTERKEV HASRAF SY V28 SIR. PAAL. DEBERLEN

7

COUNT		V28		ROW TOTAL
ROW	DOT	MULLAY	MULLAY	
221	107	ILNAYS	ILNAYT	
707	207	?	?	
2	13	10	3	13
ARILYAKHTA		76.9	22.2	52.7
		58.2	32.3	
		38.4	11.5	
1	13	7	6	13
ARILYAKHTA		53.2	46.1	52.0
		41.1	35.0	
		26.9	22.0	
COLLAV		17	8	25
TOTAL		65.3	34.6	100.0

SILOPE = 1.5854 NOKA : DEBEREN DE FREEDON.  
 NOKA OF MISSING OBSERVATIONS = 0

CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 475 BYTES OF MEMORY FREE.

HAPPY

V17 SUBST VE DESIGNS V18 BY V29 STA. PAUL, DUBOY

		V29		
COUNT				
REL. POS	REL. POS	REL. POS	REL. POS	TOTAL
REL. POS	REL. POS	REL. POS	REL. POS	
		0	1	
V17	0	11	2	13
V20		54.5	15.3	69.8
		52.0	52.0	
		48.3	7.6	
V21	1	11	2	13
V22		54.5	15.3	69.8
		52.0	52.0	
		48.3	7.6	
COLUMN		22	4	26
TOTAL		54.5	15.3	69.8

NO. OBSERV = 3,000 WITH : DEGREE OF FREEDOM  
 NUMBER OF MISSING OBSERVATIONS = 0

\* BEING USED BY A SAMPLE OF 27 BELLS FOR THIS RUN.  
 1947 BYED BY NINETY PERCENT.

0000

ORIGIN VE DERICHEN PASRAF BY V19 RAP. SISTEMENDE DM

COUNT		V19		TOT TOTAL
ROW	POT	UYELLA	UYELLA	
DEL	POT	NYAMAK	NYAKTA	
IT	POT	0	0	
1		25.3	75.6	91.9
		182.3	54.3	
		15.3	46.1	
2		2.3	191.3	193.6
		2.3	27.2	
		0.3	22.3	
3		0.3	122.2	122.5
		0.3	12.1	
		0.3	12.3	
TOTAL		15.3	311.0	326.3

1.4778 WITH 2 HIERDS OF FREEDOM.  
 10 HIERDS OF HIERDS ORIGINATIONS = 10

IT IS USED OF A MAXIMUM OF 27 CALLS FOR THIS RUN.  
 2425 BYTES OF MEMORY USED.

0000

019 RAR. BISTEPLADI DE JYBOLA BY VEC WALL RAR. LZEN DD

COUNT	VEC		
	DECEL	VERDIA	SEA
ROW SET	COL SET	COL SET	TOTAL
SET SET	0	0	
0	10	4	14
YBELLANYAKKTA	71.4	23.5	94.9
	66.6	42.0	
	42.0	18.0	
1	5	5	10
YBELLANYAKTA	45.4	54.5	99.9
	33.2	50.0	
	22.2	24.0	
COLUMN	15	10	25
TOTAL	60.2	40.8	101.0

THE SQUARE = 1.726 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

1 CELLS LOST OF A MAXIMUM OF 27 CELLS FOR THIS RAR.  
 10000 BYTES OF MEMORY USED.

1

HOPHY

V19 RAP. SYSTEMINDE BY LYBOLA BY V21 NALLI RAP. KISA D1

V19	COUNT	V21		
		DEBIL	YAKKIR	ROW
	ROW POT		OT	TOTAL
	COL POT			
	TOT POT	0	1	
0		2	12	14
LYBOLANNAKTA		14.3	85.7	100.0
		42.9	57.1	100.0
		8.6	91.4	100.0
1		3	8	11
LYBOLANNAKTA		27.3	72.7	100.0
		54.5	45.5	100.0
		18.2	81.8	100.0
	COLLYN	5	20	25
	TOTAL	27.0	73.0	100.0

CHI SQUARE = 0.6484 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF YIELDING OBSERVATIONS = 1

4 CELLS USED OF A MAX. FOR OF 27 CELLS FOR THIS ROW.  
 15418 BYTES OF MEMORY USED.



00000

-----  
 V08                    R08. SUSTAMONDE DA LYBLLA BY V08                    MALL R08. FIVATLA  
 -----

		V08		
COUNT		DEBYL	YARDIM	ROW
ROW	POT		BY	TOTAL
ROW	POT			
V08				
	2	2	12	14
UYELLANXAKTA		14.2	65.7	55.2
		26.0	34.5	
		8.2	42.0	
	1	1	10	11
UYELLANXAKTA		9.2	58.9	44.2
		32.2	45.4	
		4.0	48.2	
DELYN		3	22	25
TOTAL		12.2	62.8	102.2

THE SLIP = 7.1874 1170 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 CELLS USED OF A MAXIMUM OF 87 CELLS FOR THIS RUN.  
 15400 BYTES OF MEMORY USED.

FERRY

-----  
 019                    REP. SYSTEM INDE BY UVELLA BY V23                    YALI REP. SATIN R  
 -----

		V23		REN
OBSTAT	ROW	DEBT1	YARROW	TOTAL
COL	COL		DE	
1	2	3	4	5
V23				
	2	1		
	1	5	5	14
UVELLA	57.1	42.2		99.3
	47.2	75.2		
	32.2	24.7		
-----				
	5	2		11
UVELLA	81.2	18.1		99.3
	52.2	25.2		
	32.2	2.2		
-----				
COLLOW	17	0		25
TOTAL	68.2	32.2		100.2

THE SOURCE = 1.7226 RY. : DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

A CELL IS NOT OF A MAXIMUM OF 27 CELLS FOR THIS RY.  
 1342: BY THE OF MEMORY TREE.

0000

V19 REP. DISTRICTION BY VOLUME BY V24 NAME ERROR YETTRIN

V19	V24			V04 TOTAL
	DEBIT	CREDIT		
	0	3		3
BYBULANNAKTA	78.5	21.4		57.1
	64.7	37.5		
	44.0	12.0		
	5	5		10
BYBULANNAKTA	54.5	45.4		99.9
	35.8	52.5		
	54.6	22.2		
COLUMN	17	8		25
TOTAL	88.2	38.8		127.0

CHI SQUARE = 1.8241 WITH 1 DEGREE OF FREEDOM,  
 NUMBER OF MISSING OBSERVATIONS = 1

1 CELL OR LESS OF A ROW OR OF A COLUMN FOR THIS TABLE  
 19852 BYTES OF MEMORY USED

00000

V15                    HAD. SUTS WIDE DE OYSLER BY V25                    SER. FABL. DEBERL

COUNT		V25		SER. TOTAL
ROW	COL	WELLON	WELLAN	
DDL	DDI	WLLYNA	WLLXKT	
END	END	3	1	
V15				
WELLON WYKATP				
		1	1	2
		18.8	55.2	57.6
		102.0	55.8	
		2.8	53.5	
WELLON WAKA				
		3	11	14
		2.8	107.4	110.2
		0.2	22.8	
		0.7	12.3	
SERIAL				
		1	28	29
TOTAL		3.8	96.7	100.5

CHI SQUARE = 0.7607 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

2 DIME JACK OF 4 WINDUP BY 2016 FOR THIS ROW.  
 10076 BYTES OF MEMORY FREE

APPENDIX

NO. 10

NO. 10. SYSTEMATIC BY VCB BY VCB DIR. FACIL. DESCRIBE

COUNT	VCB		NO. TOTAL
	ROW PGT	COL PGT	
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9
10	10	10	10
11	11	11	11
12	12	12	12
13	13	13	13
14	14	14	14
15	15	15	15
16	16	16	16
17	17	17	17
18	18	18	18
19	19	19	19
20	20	20	20
TOTAL	200.0	200.0	200.0

NO. SOURCE = 1.4108 WITH 1 NUMBER OF FREEDOM.  
 NUMBER OF RECORDS OBSERVATIONS = 1

1 BILLI USED OF 1 MANIPUL OF 07 BILLI FOR THIS RUN.  
 10000 BYTES OF MEMORY FREE.

00007

V19 SOL. EIGHTHGRADE BY UYDOLA BY V87 GIR. FAAL. DEBERLI

		V87		
COUNT		KULLAN	KULLAN	ROW
ROW	COL	ILMAMA	ILMAMA	TOTAL
---	---	2	2	
<hr/>				
V19	2	16	8	24
UYDOLAKKAKMTR		66.6	33.3	57.6
		82.5	32.3	
		36.4	19.2	
<hr/>				
	2	8	5	13
UYDOLAKKAKMTR		54.5	43.4	42.3
		37.5	50.2	
		23.7	16.2	
<hr/>				
	COUNT	16	13	29
	TOTAL	61.5	39.4	100.9

CHI SQUARE = 2.3859 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

4 CELLS USED OF A MAXIMUM OF 87 CELLS FOR THIS ROW.  
 18347 BYTES OF MEMORY FREE.

1977

-----  
 VLF 997. BYTES MADE BY VSB BY VSB SIR PAUL BIDDEL  
 -----

VLF	COUNT	VSB		TOTAL
		ALL ON	ALL OFF	
DELTA	DELTA	DELTA	DELTA	DELTA
DELTA	DELTA	DELTA	DELTA	DELTA
3	10	3		13
LYBLANKMARKT	22.3	28.7		51.0
	72.3	31.3		103.6
	48.1	11.5		59.6
1	5	0		5
LYBLANKMARKT	45.4	54.0		99.4
	28.4	66.0		94.4
	19.2	23.8		43.0
DELTA	17	5		22
TOTAL	65.2	34.0		99.2

CHI SQUARE = 2.3462 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

A DELTA USED OF A NUMBER OF 27 DELTA FOR THIS RUN.  
 1997 BYTES OF VSB BY VSB

0230Y

16 RAP. SIISTEYMINDE DN LYBILA BY V29 SIR. FAAL. DEGERLE

		V29		
COUNT		KULLAN	KULLAN	ROW
COL	ROW	ILMAMA	ILMAMA	TOTAL
TOT	TOT	2	1	
2		18	2	15
YELLANNAKTA		26.0	13.0	57.0
		55.0	53.0	
		52.0	7.0	
1		0	0	11
YELLANNAKTA		51.0	12.0	42.0
		43.0	53.0	
		54.0	7.0	
COLUMN		22	2	25
TOTAL		94.0	15.0	109.0

OF SQUARES = 0.1146 WITH 1 DEGREES OF FREEDOM.  
NUMBER OF MISSING OBSERVATIONS = 0

CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
3333 BYTES OF MEMORY FREE.



0000Y

V41 B. KARLVA. AKTI PLEK BY V5 BILBIBGYAR KULLANIY

V41	COUNT	V5		ROW TOTAL
		YARARL	YARARL	
	ROW POT	ANXAYA	ANAY	
	COL POT			
	TOT POT	2	1	
	2	5	5	10
AZALIG		45.5	54.5	100.0
		41.5	48.5	
		19.2	23.8	
	1	7	10	17
ARTIG		45.5	55.5	101.0
		55.5	57.1	
		26.5	32.7	
	COLUMN	12	14	26
	TOTAL	46.1	52.0	98.1

CHI SQUARE = 0.6422 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 18341 BYTES OF MEMORY FREE.

TABLE

1981

V41 B. KORIENLAKTIPLER FY V13 P-6 VE K-2 HAZIRLA

		V13				
COUNT		HAFTAL	AYLIK	30 GUN	90 GUN	RDY TOTAL
RDY POT	COL POT	IK	IK	IK	YLIK	
TOT POT		1	2	3	4	
V41	2	0	10	1	0	11
RZALIS		0.0	90.0	0.0	0.0	44.0
		0.0	55.5	20.0	0.0	
		0.0	40.0	4.0	0.0	
ARTIS	1	1	8	4	1	14
		7.1	57.1	28.6	7.1	55.0
		100.0	44.4	20.0	100.0	
		4.0	32.0	16.0	4.0	
BOLLIN	1	1	10	5	1	25
TOTAL		4.0	72.0	20.0	4.0	100.0

DIG SQUARE = 0.7107 WITH 2 DEGREE OF FREEDOM.  
 NUMBER OF ROBING OBSERVATIONS =

2 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 11216 BYTES OF MEMORY FREE.

20274

V41 B. KATELIN AKTIFLER BY V14 WAPOR VER. FOR AKIA

		V14		
COUNT		KULLAN	KULLAN	REV.
ROW	POF	ELMAYIA	ELMAYIA	TOTAL
TOT	POF	0	1	
V41	0	5	4	9
P24L18		55.5	44.4	99.9
		41.5	33.2	
		20.5	16.6	
	1	7	3	10
P27L18		48.5	53.3	101.8
		58.2	62.6	
		29.1	31.3	
		12	12	24
	TOTAL	50.6	51.2	101.8

CHI SQUARE = 0.1778 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

4 CELLS USED OR A MAXIMUM OF 27 CELLS FOR THIS TABLE.  
 18000 BYTES OF MEMORY FREE.

COPY

V41 E. KARREN. AKTIPLER BY V15 KARAR VER. BAGABAY

		V15		
ROW	PDT	KULLAN	KULLAN	ROW
COL	PDT	ILMAMA	ILMAMA	TOTAL
NOY	PDT	0	1	
V41	6	5	2	3
RESULTS		58.5	44.4	37.5
		28.4	57.1	
		28.8	18.5	
	1	18	3	15
RESULTS		68.8	28.8	68.8
		78.8	48.6	
		58.2	12.8	
		17	7	24
	TOTAL	78.8	28.1	108.8

CPI BELARE = 1.6289 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

A BELLS USED OF A MAXIMUM OF 27 BELLS FOR THIS RUN.  
 1000 BYTES OF MEMORY FREE.

0000

41

E. ARDEN, EXTERIOR

BY VIS

ACRPT VER. DWA ON

00

TRIPS

VIS

		VIS		
ROW	COL	KILLER	KILLER	ROW
NO	NO	NO	NO	TOTAL
NO	NO	1	1	
0	0	0	0	0
00.0	00.0	00.0	00.0	07.0
00.0	00.0	00.0	00.0	
00.0	00.0	00.0	00.0	
0	0	0	0	00
00.0	00.0	00.0	00.0	00.0
00.0	00.0	00.0	00.0	
00.0	00.0	00.0	00.0	
00.000	0	00	00	00
TOTAL	07.0	00.0	00.0	00.0

NO COLLECT = 7.1257 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

NO DATA USED IN ANALYSIS IF BY CELL FOR THIS RUN.  
 ALL BYTES OF THE DATA FILE.

2244

V41      S. KARI (N. A. MEPLER)      BY V17      GABON VE DEGTAKOM X

		V17		
COUNT				
ROW	POT	YABEILY	YABEILN	ROW
COL	POT	IRAKATA	AKTA	TOTAL
NO	POT	0	1	
V41	0	5	6	11
MEPLER		45.4	34.5	41.3
		30.4	45.1	
		19.2	33.0	
	1	5	7	12
ARTIS		53.5	46.5	57.5
		51.5	53.2	
		32.7	35.5	
COLUMN		12	12	26
TOTAL		50.2	52.2	102.2

CHI SQUARE = 0.1575 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 7

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 13532 BYTES OF MEMORY FREE.

-00000

V44                      S. RARE: N. CATTLE                      BY V12                      GREAT VE DESIGN

		V12			
COUNT		TIME	SELLS	POW D	ROW
ROW	POW		KLASS	DELS	TOTAL
1ST	2ND				
V44			2	3	
	0	0	2	1	3
RESULTS		58.8	32.8	10.0	48.1
		37.2	55.1	52.7	
		22.2	15.0	7.2	
	2	5	1	1	7
RESULTS		71.4	14.2	14.2	53.0
		62.5	33.2	53.0	
		23.4	7.5	7.5	
		5	3	0	13
	TOTAL	81.5	32.9	15.3	129.3

DYE COLOR = 2.7025 WITH 2 SERIES OF FREEDY.  
 NUMBER OF YINDING OBSERVATIONS = 11

6 BELLS LEVIED ON A MAXIMUM OF 27 BELLS FOR THIS RUN.  
 1571 PAGES OF YINDING DATA.

WAPPY

-----  
 VAA                    B. KASIN, AKTIFLER                    BY V19                    FOR. SISTEMINDI D  
 -----

VAA	COUNT		V19		ROW TOTAL
	ROW	POT	MYDULA	MYDULA	
	COL	POT	KYRANK	KYRANK	
	TOT	POT	?	?	
	2		5	5	11
PRALIS			45.4	54.6	100.0
			32.3	34.5	
			19.2	26.2	
	1		10	5	15
PRYS			66.6	33.3	100.0
			66.6	48.4	
			33.7	19.2	
			15	11	26
			57.6	43.2	100.8

CHI SQUARE = 1.1666 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

\* BELLS USED IF A MAXIMUM OF 27 BELLS FOR THIS RUN.  
 16883 BYTES OF MEMORY USED.



COPY

VAL B. MARTIN, SKTFLER BY VBR MALLI RAP. UZUN DON

		VBR		
COUNT		DESTR.	YARDIN	RO.
ROW	COL		DI	TOTAL
TOT	COL	%		
VAL	2	6	5	11
AZALTS		54.5	45.4	44.3
		40.7	38.2	
		24.8	20.7	
	1	9	5	14
ARTIS		64.2	35.7	55.6
		52.0	50.7	
		36.0	20.0	
COLUMN		15	10	25
TOTAL		60.7	40.2	100.0

CHI SQUARE = 0.2435 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS =

4 CELLS USED OR A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 15.00 BYTES OF MEMORY FREE.

HAPPY

V41 B. HARRIS, ANTEFLER BY V21 MOLI RAP. KISS DON

V41	COUNT	V21		ROW TOTAL
		DEBIL	YARDIM	
	ROW POT		OT	
	COL POT			
	TOT POT	0	1	
	0	2	9	11
AZALIS		18.2	81.8	100.0
		42.0	45.0	87.0
		8.0	26.2	34.2
	1	2	11	13
ARTIS		21.4	78.6	100.0
		62.2	55.8	118.0
		12.2	44.0	56.2
	COLUMN	8	22	30
	TOTAL	26.0	82.0	108.0

CHI SQUARE = 2.0486 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 15177 BYTES OF MEMORY FREE.

REFY

-----  
 41 B. KORNIN, AKTIFLER BY VBE NALY RAP. FIVOTLANDL  
 -----

		VBE		
ROW	COL	BEOTL	YATEDL	ROW
COL	ROW		OT	TOTAL
ROW	COL	2	3	
	2	1	12	13
ZALIS		5.2	53.5	58.7
		33.3	45.7	
		4.2	45.7	
		8	12	20
RTIS		14.8	55.7	70.5
		55.6	54.5	
		6.8	45.0	
		8	22	30
		18.8	68.2	87.0

NO SQUARE = 2.1074 WITH 1 DEGREE OF FREEDOM.  
 ORDER OF ALIQUOT OBSERVATIONS =

CELLS USED OF 2 X 2 = 27 CELLS FOR THIS BLK.  
 5.7% EXCESS OF MEMORY SPACE.

VARRY

V41 B. KARPIN, ANTIPLER BY V23 YALD BAR. BATHW BL

V44	COUNT		V23		ROW TOTAL
	ROW TOT	COL TOT	DEBIL	YARDIA	
	ROW TOT	COL TOT	0	1	
	0		0	5	11
ATLIS			54.5	45.4	100.0
			35.0	50.0	
			24.0	23.0	
	1		11	3	14
ARTIS			70.5	21.4	92.0
			64.7	37.5	
			44.0	12.0	
	DELUKA		17	0	05
	TOTAL		66.0	72.0	100.0

CHI SQUARE = 1.6341 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 CELLS USED OF A MAXIMUM OF 67 CELLS FOR THIS RUN.  
 15171 BYTES OF MEMORY FREE.

CPY

-----  
 1 B. KPRIN, AKTEFLER BY V24 MALS RAPOR YATIRIM  
 -----

		V24		
DEBIT		DEBIT	CREDIT	NET
ROW	POST			TOTAL
COL	POST			
TOT	POST			
7		6	5	11
		24.0	45.4	44.2
		28.0	28.5	
		24.8	28.2	
1		11	3	14
		70.0	21.4	58.0
		24.7	17.5	
		44.0	12.2	
DEBIT		17	3	25
TOTAL		66.0	28.2	100.0

CHI SQUARE = 1.0341 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

CELLS USED BY A ROW OR BY A COL FOR THIS RUN.  
 MISS LINES BY A ROW OR COL

HEBRY

V41 B. KARTIN. ANTIFLER BY V25 SER. PAAL. DEEF

V41	COUNT		V25		ROW TOTAL
	ROW POT	COL POT	KULLAN	KULLAN	
			ALWAYS	ALWAYS	
			0	1	
	0		0	11	11
022110			0.0	100.0	40.0
			0.0	44.0	
			0.0	42.0	
			1	14	15
02110			0.0	53.0	57.0
			100.0	00.0	
			0.0	22.0	
	COLUMN		1	25	26
	TOTAL		0.0	55.0	100.0

END COLONE = 2.7007 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF NEGATIVE CORRELATIONS = 0

0 BELLS USED IN A SAMPLE OF 07 BELLS FOR THIS RUN.  
 10147 BYTES OF MEMORY USED.

APPY

1 B. KARVIN, AKTIFLER EV V20 SIR. FAGL. DEBERLENDI

		YES		
COUNT				
ROW	COL	KULLAY	KULLAY	ROW
COL	ROW	DELYAYA	DELYAYA	TOTAL
TOT	TOT	0		
2		2	11	13
		0.0	100.0	40.0
		0.0	0.0	
		0.0	40.0	
1		1	14	15
		0.0	0.0	0.0
		100.0	0.0	
		0.0	0.0	
DELYAYA		1	25	26
TOTAL		3.0	35.0	100.0

1 BELARE = 2.7897 1 BELARE OF FREEDOM  
 NUMBER OF MISSILE DEBERLENDI = 0

DEBERLENDI OF 4 V20... 27... 40... 100...  
 MISS BYTES OF V20... 100...

COPY

044 B. VORIAN, ANTIFLER BY VE7 BR. FRAL. DEBERLEN

		VE7		
COUNT				
ROW	COL	KULLAY	KULLAX	ROW
COL	ROW	ILYAYG	ILYAKT	TOTAL
07	08	6	1	
044	2	6	3	11
045		72.7	27.2	42.3
		52.3	38.8	
		32.7	11.5	
046	1	6	7	15
047		52.3	46.0	57.6
		52.3	72.8	
		32.7	21.9	
DOLLYN		16	13	26
TOTAL		61.8	38.4	122.7

THE SQUARE = 1.2222 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

CELLS USED OF A MATRIX OF 87 CELLS FOR THIS TABLE  
 1511 BYTES OF MEMORY USED.



10000

-----  
 V44                    B. KARRIN, KATZELER                    BY V88                    SER. TAPL. DEBERLE  
 -----

	COUNT		V88		TOTAL
	ROW	COL	ALWAYS	SOMETIMES	
V44	2		7	4	11
AZALIE			82.8	82.8	165.6
			81.1	84.1	
			86.9	78.1	
ORVIS			17	7	24
			85.8	88.8	174.6
			88.8	88.8	
			89.4	78.2	
			17	8	25
TOTAL			85.2	84.8	170.0

ONE SQUARE = 3.2287 INCH : DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

A CELL IS USED IF A MOVING OF AT LEAST ONE FOR THIS ROW.  
 10000 BYTES OF MEMORY USED.

RTTY

741 E. KARIIN, KATIFLER BY V29 SIR. PAUL, DEBERLE

V29			
COUNT			
ROW POT	KULLAN	KULLAN	ROW
COL POT	ELNONG	ELNONG	TOTAL
TOT POT	0	1	
2	8	2	10
029.15	71.7	27.2	49.2
	25.6	75.2	
	27.7	11.5	
3	13	1	14
0719	50.2	6.9	57.6
	52.6	22.2	
	52.6	3.9	
DELTA	22	4	26
TOTAL	64.6	10.2	102.7

NO SQUARE = 2.2732 WIT = DEGREE OF FREEDOM,  
 NUMBER OF NEEDED OBSERVATIONS = 9

DELTA USED IS A MAXIMUM OF 27 CELLS FOR THIS ROW,  
 SOME HAVE OF VARIOUS SIZE.

42222

-----  
 V54                    B. HERRINGBERGONE                    BY V5                    BILBISAYOR KJLJAN  
 -----

		V5		
COST		YACORL	YACORL	ROW
ROW	PTT	AMWYR	PAON	TOTAL
ROW	PTT	0	1	
V54				
	0	0	0	0
22225		30.5	30.5	30.7
		20.0	20.7	
		11.5	15.2	
		0	0	0
2315		52.0	52.0	50.2
		75.0	64.8	
		34.5	34.0	
		10	14	20
	TOTAL	46.1	53.8	103.7

ONE SQUARE = 0.0450 WITH 1 DIGIT OF FREEDOM.  
 NUMBER OF MISSING OPERATIONS = 0

A CELL USED BY A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 10000 BYTES OF MEMORY FREE.

PAPPY

-----  
 V51                    B. KARLODZBERKAYE                    BY VLE                    S+S VE K-2 KZIR  
 -----

VLE

	DDRY	NOFFA		UD RYL		DDRY A	ROW
	DDRY	NOFFA	RYL	UD RYL	DDRY A	YETA	TOTAL
V51	DDRY	NOFFA	RYL	UD RYL	DDRY A	YETA	TOTAL
	1	2	3	4			
RZALOB	1	5	1	2			9
	12.0	75.2	12.0	0.0			99.2
	100.2	33.2	88.2	2.0			
	4.0	24.8	4.0	0.0			
ORVTS	2	16	4	1			17
	2.0	72.5	22.5	5.0			99.0
	0.0	66.0	88.0	100.2			
	2.0	48.0	15.2	4.0			
DELUYN	1	15	5	1			22
TOTAL	4.2	72.0	22.2	4.2			122.2

CHI SQUARE = 0.9415 WITH 3 DEGREES OF FREEDOM.  
 NUMBER OF VISIBLING OBSERVATIONS = 2

6 BELLS LOAD OF 3 MAXIMUM OF 27 BELLS FOR THIS RUN.  
 18312 BYTES OF MEMORY FREE.

HARRY

10 15

V61 BL KARL LOZDERWAVE BY V14 KARER VER. FOX SKI

COUNT		V14		ROW TOTAL
ROW POT	CUMULON	CUMULON	RES	
COL POT	11.0000	11.0000		
TOT POT	2	2		
V61	2	5	2	7
AZALIS		71.4	26.5	26.1
		41.6	18.6	
		26.2	6.3	
	1	7	10	17
ARTIS		71.1	59.6	70.9
		59.3	33.3	
		29.1	13.6	
COLUMN		12	12	24
TOTAL		60.2	60.0	120.0

CHI SQUARE = 1.815 WITH 2 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS ROW.  
 10000 BYTES OF MEMORY USED.

HARRY

-----  
 V01                    D. KARI: CIZERMAYE                    SV    V15                    KARAR VER. 30003  
 -----

		V15		
COUNT				
ROW	POT	KULLAN	KULLAN	ROW
DEL	POT	ILMAMA	ILYAKT	TOTAL
TOT	POT	0	1	
V01				
	0	2	4	7
AZALIS		48.8	57.1	29.1
		17.8	57.1	
		12.5	15.6	
	1	14	3	17
ARTIS		55.3	17.6	70.6
		55.3	42.8	
		55.3	12.5	
	DELUXE	17	7	24
	TOTAL	77.0	29.1	100.2

CHI SQUARE = 0.7428 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF VISIBLE OBSERVATIONS = 2

4 CELLS USED IN A MAXIMUM OF 27 CELLS FOR THIS RLA.  
 15000 BYTES OF MEMORY FREE.

copy

VE1 B. KARI. CZERWANE BY V16 KARRA VEP. ERON 0

VE1	VE1		VE1		TOT
	REK	ROT	KULLON	KULLON	
	2		4	5	7
GRALIS			57.1	46.8	25.1
			44.1	28.8	
			16.8	12.8	
			3	12	17
ARTIS			29.1	72.5	72.5
			20.8	20.8	
			20.8	20.0	
			0	15	24
			27.8	51.8	101.9

ON BEHOLD = 1,6808 WITH 1 DEGREE OF FREEDOM.  
 VALUE OF MICRO OBSERVATIONS = 2

4 CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 LEGY DATES OF REPLY ARE:

HAPPY

054 - S. KARI: OZGERMAYE BY V17 BARI VE DESTEKEN Y

V17

ROW	COL	YAPILY	YAPILM	ROW
001	001	ANAKTA	AKTA	TOTAL
TOT	POT	0	1	
	0	4	4	8
		52.2	52.8	105.0
		32.7	32.7	65.4
		19.3	15.3	34.6
	1	9	9	18
		52.8	52.8	105.6
		59.2	59.2	118.4
		34.8	34.8	69.6
		13	13	26
	TOTAL	52.8	52.8	105.6

THE SQUARE = 0.0222 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 2

CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 DATA ENTERED BY KEYBOARD.



COPY

BY VLB  
 R. KARLOVICH  
 POSITIVE DESIGNATION

COUNT		VLE			ROW TOTAL
REL. POS.	REL. POS.	REL. POS.	REL. POS.	REL. POS.	
REL. POS.	REL. POS.	REL. POS.	REL. POS.	REL. POS.	
0	0	0	0	0	0
02.0	02.0	02.0	02.0	02.0	02.7
05.0	05.0	05.0	05.0	05.0	
08.0	08.0	08.0	08.0	08.0	
1	0	0	0	0	0
06.0	06.0	06.0	06.0	06.0	06.0
07.0	07.0	07.0	07.0	07.0	
08.0	08.0	08.0	08.0	08.0	
09.0	09.0	09.0	09.0	09.0	
10.0	10.0	10.0	10.0	10.0	
11.0	11.0	11.0	11.0	11.0	
12.0	12.0	12.0	12.0	12.0	
13.0	13.0	13.0	13.0	13.0	
14.0	14.0	14.0	14.0	14.0	
15.0	15.0	15.0	15.0	15.0	
16.0	16.0	16.0	16.0	16.0	
17.0	17.0	17.0	17.0	17.0	
18.0	18.0	18.0	18.0	18.0	
19.0	19.0	19.0	19.0	19.0	
20.0	20.0	20.0	20.0	20.0	
21.0	21.0	21.0	21.0	21.0	
22.0	22.0	22.0	22.0	22.0	
23.0	23.0	23.0	23.0	23.0	
24.0	24.0	24.0	24.0	24.0	
25.0	25.0	25.0	25.0	25.0	
26.0	26.0	26.0	26.0	26.0	
27.0	27.0	27.0	27.0	27.0	
28.0	28.0	28.0	28.0	28.0	
29.0	29.0	29.0	29.0	29.0	
30.0	30.0	30.0	30.0	30.0	
31.0	31.0	31.0	31.0	31.0	
32.0	32.0	32.0	32.0	32.0	
33.0	33.0	33.0	33.0	33.0	
34.0	34.0	34.0	34.0	34.0	
35.0	35.0	35.0	35.0	35.0	
36.0	36.0	36.0	36.0	36.0	
37.0	37.0	37.0	37.0	37.0	
38.0	38.0	38.0	38.0	38.0	
39.0	39.0	39.0	39.0	39.0	
40.0	40.0	40.0	40.0	40.0	
41.0	41.0	41.0	41.0	41.0	
42.0	42.0	42.0	42.0	42.0	
43.0	43.0	43.0	43.0	43.0	
44.0	44.0	44.0	44.0	44.0	
45.0	45.0	45.0	45.0	45.0	
46.0	46.0	46.0	46.0	46.0	
47.0	47.0	47.0	47.0	47.0	
48.0	48.0	48.0	48.0	48.0	
49.0	49.0	49.0	49.0	49.0	
50.0	50.0	50.0	50.0	50.0	
51.0	51.0	51.0	51.0	51.0	
52.0	52.0	52.0	52.0	52.0	
53.0	53.0	53.0	53.0	53.0	
54.0	54.0	54.0	54.0	54.0	
55.0	55.0	55.0	55.0	55.0	
56.0	56.0	56.0	56.0	56.0	
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62.0	62.0	62.0	62.0	62.0	
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64.0	64.0	64.0	64.0	64.0	
65.0	65.0	65.0	65.0	65.0	
66.0	66.0	66.0	66.0	66.0	
67.0	67.0	67.0	67.0	67.0	
68.0	68.0	68.0	68.0	68.0	
69.0	69.0	69.0	69.0	69.0	
70.0	70.0	70.0	70.0	70.0	
71.0	71.0	71.0	71.0	71.0	
72.0	72.0	72.0	72.0	72.0	
73.0	73.0	73.0	73.0	73.0	
74.0	74.0	74.0	74.0	74.0	
75.0	75.0	75.0	75.0	75.0	
76.0	76.0	76.0	76.0	76.0	
77.0	77.0	77.0	77.0	77.0	
78.0	78.0	78.0	78.0	78.0	
79.0	79.0	79.0	79.0	79.0	
80.0	80.0	80.0	80.0	80.0	
81.0	81.0	81.0	81.0	81.0	
82.0	82.0	82.0	82.0	82.0	
83.0	83.0	83.0	83.0	83.0	
84.0	84.0	84.0	84.0	84.0	
85.0	85.0	85.0	85.0	85.0	
86.0	86.0	86.0	86.0	86.0	
87.0	87.0	87.0	87.0	87.0	
88.0	88.0	88.0	88.0	88.0	
89.0	89.0	89.0	89.0	89.0	
90.0	90.0	90.0	90.0	90.0	
91.0	91.0	91.0	91.0	91.0	
92.0	92.0	92.0	92.0	92.0	
93.0	93.0	93.0	93.0	93.0	
94.0	94.0	94.0	94.0	94.0	
95.0	95.0	95.0	95.0	95.0	
96.0	96.0	96.0	96.0	96.0	
97.0	97.0	97.0	97.0	97.0	
98.0	98.0	98.0	98.0	98.0	
99.0	99.0	99.0	99.0	99.0	
100.0	100.0	100.0	100.0	100.0	

ONE SQUARE = 0.4000 WITH 0 DEGREE OF FREQUENCY.  
 NUMBER OF POSITIVE OBSERVATIONS = 12

1 BELL USED OF 0 BELL OR 10 BELL FOR THIS RLY.  
 1450: 1450 OF VERY RARE.

0000

-----  
 04                    9. 4001:00000000                    BY    V19                    PAR. 00000000 00 0

		V19		
00000		00000	00000	00000
00000	00000	00000	00000	00000
00000	00000	00000	00000	00000
0	4	4	5	
00.0	00.0	00.0	00.0	00.0
00.0	00.0	00.0	00.0	
00.0	00.0	00.0	00.0	
0	11	7	10	
00.0	00.0	00.0	00.0	00.0
00.0	00.0	00.0	00.0	
00.0	00.0	00.0	00.0	
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0000

-----  
 V61                    E. KAPAL FORDSAPVYL                    BY V6A                    8.11.199. UZLA DON  
 -----

		V62		
DEBIT		DEBIT	YARDON	ROW
ROW	POT		DE	TOTAL
DEB	POT			
POY	POT	8	1	
V6A	2	4	7	8
AZALRE		52.2	50.0	22.7
		20.5	40.1	
		12.2	10.0	
ARTIS		11	2	17
		54.7	35.2	68.0
		73.3	50.3	
		74.2	94.3	
DEBIT		15	10	25
TOTAL		63.2	43.2	127.2

041 80105 = 2,4532 UNIT    2 DEGREES OF FREEDOM.  
 041 80105 = 2,4532 UNIT    2 DEGREES OF FREEDOM.

4 BELLS USED OF 8 APPROX OF 27 BELLS FOR THIS RUN.  
 12000 BYTES OF MEMORY USED.

HARRY

VE1 B. KARI:OZBERKPYE BY VE1 PALE PAP. KISS DOM

VE1	COUNT	VE1		ROW TOTAL
		DEBIL	WARDLY	
ROW POT	COL POT	DEBIL	WARDLY	ROW TOTAL
NOT POT	NOT POT	0	1	
0		1	7	8
DIRLIS		12.5	27.5	38.0
		20.2	25.2	
		4.0	28.0	
2		4	13	17
ARTIS		23.2	75.4	88.0
		23.0	65.2	
		16.2	58.0	
COLUMN		5	22	25
TOTAL		26.2	80.0	106.0

THE SQUARE = 2.9425 WITH 1 DEGREES OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 1

4 CELLS USED OF A MAXIMUM OF 87 CELLS FOR THIS RUN.  
 14991 BYTES OF MEMORY USED.

14777

V61 A. KARLOVZBERG BY VEB FAL. PAR. STYPLAM

	V62		TOTAL
	DATE	YARDLY	
V61	2	7	9
01010	10.0	17.0	27.0
	02.0	01.0	
	4.0	05.0	
01110	0	10	10
	11.7	00.0	00.0
	00.0	00.0	
	0.0	00.0	
TOTAL	20.0	00.0	20.0

THE TOTAL = 6.0015 WITH : DEGREE OF FREEDOM,  
 NUMBER OF STRESS INDICATORS =

4 BELLS USED IN A MAXIMUM OF 17 BELLS FOR THIS ALA.  
 14000 BYTES OF MEMORY FREE.

0000

-----  
 V01                    2 PARTICLES PER WAVE                    BY V02                    Y03    RSP.    BATTN    RLO  
 -----

		V03		
COUNT				
ADN	NOT	IDEAL	VARIA	R04
DE	DE		DE	TOTAL
TOT	TOT	2	1	
-----				
V01	2	2	4	2
ADN		52.0	52.0	52.0
NOT		22.0	22.0	
TOT		16.0	16.0	
-----				
V02	2	13	4	17
ADN		75.4	22.5	52.9
NOT		75.4	22.0	
TOT		32.0	16.0	
-----				
DOLLYN		17	2	22
TOTAL		66.0	22.0	120.0

THE SQUARE = 1.7517 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS =

CELLS USED OF A MAXIMUM OF 27 CELLS FOR THIS RUN.  
 LABEL BYTES OF ANYBODY FREE

VEA - - - - B. KARLHOZBERG - - - - BY - VEA - - - - WALE RAPOR YAFERD

		VEA		
DELY		DEEL	YARDIN	ROY
ROW	NET			TOTAL
COL	NET			
NET	NET	2	1	
VEA				
	2	6	6	6
RTALD		75.8	25.2	68.2
		25.2	25.2	
		24.2	6.2	
	1	11	6	17
RTED		64.7	25.2	68.2
		64.7	75.6	
		44.2	24.2	
		17	6	23
		61.2	25.2	122.7

THE SQUARE = 2.2048 WITH 1 DEGREE OF FREEDOM.  
 VALUES OF X AND Y OBSERVATIONS =

A BELL LEAD OF 2 HOURS AT 27 HOURS FOR THIS RUN.  
 LABEL BYTES OF 48000 PER

68204

VE4 B. KARL FÜRBERG R. PVE BY VBS SIR. PAUL. DEBERG

VE4		VBS		
ROW POT	KILLER	KILLER	30%	TOTAL
COL POT	1.0000	1.0000		
TOT POT	1	1		
0	0	0	0	0
0.0000	1.0	100.0	30.7	
	1.0	30.7		
	0.0	30.7		
1	1	17	10	
0.0000	0.0	0.0	00.0	
	100.0	00.0		
	0.0	00.0		
	0.0	00.0		
00000	1	00	00	
TOTAL	1.0	00.0	100.0	

THE SCORE = 6.4000 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF TESTS IDENTIFIED = 1

2 BELLS USED BY A MAXIMUM OF 27 BELLS FOR THIS RUN.  
 LAST BELL OF MEMORY FILE.



0377

VE1 B. KARR:OZSERVAVE BY VSE SER. PAAL. DEGERL

		VSE		
COUNT		KULLAN	KULLAN	ROW
ROW	POT	ILMANA	ILMANA	TOTAL
COL	POT			
TOT	POT	0	1	
VE1	0	0	0	0
ANALYS		0.0	100.0	20.7
		0.0	20.0	
		0.0	20.7	
ARTIS	1	1	17	18
		0.5	94.4	60.2
		100.0	50.0	
		0.0	00.0	
COLUMN		1	20	20
TOTAL		0.0	60.1	120.0

CHI SQUARE = 0.4628 WITH 1 DEGREE OF FREEDOM.  
 NUMBER OF MISSING OBSERVATIONS = 0

0 CELLS USED OF A MAXIMUM OF 97 CELLS FOR THIS RUN.  
 14652 BYTES OF MEMORY FREE.

APPY

SA

E. KARDICZBERGWE

BY V87

SIR. PAOL. DEBERLE

V87

SA

ZALIS

ZTIS

COUNT		MULLAY		KILLAN		ROW
ROW	TOT	RELAVE	BLKAT	RELAVE	BLKAT	
2		0	0	0	0	0
		75.0	25.0	30.0	0	30.7
		27.0	0	0	0	
		28.0	7.0			
1		1.0	0	0	0	1.0
		22.0	44.4	0	0	60.2
		22.0	0	0	0	
		25.0	30.7			
TOTAL		10	10	20		20
TOTAL		61.0	30.7	100.0		

NO COLLISIONS. ALL DATA SET. 1 DEGREE OF FREEDOM.  
 NUMBER OF HYPOTHESIS OBSERVATIONS = 0

CELLS USED BY A VARIETY OF 07 CELLS FOR THIS RUN.  
 (SEE LIST OF MEMORY FILES)

DATA

VSA	B. APPROXIMATE	BY VSE	OPR. FREQ.	DEBER
	VSE			
	AMOUNT			
	REL. TOT	REL. TOT	REL. TOT	TOTAL
	REL. TOT	REL. TOT	REL. TOT	TOTAL
	REL. TOT	REL. TOT	REL. TOT	TOTAL
VSA	2	2	2	2
ARTIC	75.0	28.0	28.0	28.0
	28.0	13.0		
	28.0	7.0		
ARTIC	11	7	12	
	61.1	29.0	69.2	
	64.7	77.7		
	22.3	21.9		
COLUMN	17	9	166	
TOTAL	28.0	24.9	104.2	

ONE GROUP = 0.4701 WITH 1 DEGREE OF FREEDOM  
 NUMBER OF MISSING OBSERVATIONS = 1

A BELL CURVE OF A MEAN OF 27.1418 FOR 1-28 R.V.  
 LARGE BUILT OF MEMORY PAGE.

0000

51 B. KARL OISENWAYE BY V89 BIR. PAAL. DEBITLE

		V89		
"COOK"				
REN	BDT	KLKAYE	KLKAKT	REN
BDL	BDT	ILKAYE	ILKAKT	TOTAL
TOT	BDT	0	1	
	8	5	5	5
24.75		75.7	25.2	32.7
		27.2	32.2	
		25.2	7.0	
		16	2	18
RTIS		68.5	15.1	55.2
		72.7	32.2	
		51.5	7.5	
DELUYX		25	1	26
TOTAL		84.5	15.2	102.2

BY CHANGE # 8.8127 CITY 1 DEGREE OF FREEDOM.  
 NUMBER OF VISUAL OBSERVATIONS # 2

WILL BE LOANED TO YOU BY BELL FOR THIS RIN.  
 1.57 BYTES OF MEMORY FREE.

0000

4

1. APPROXIMATE

VE

ELBIEVOR 200000

VE

DATE	NO. OF	NO. OF	NO. OF	TOTAL
1951	1952	1953	1954	
0	5	5	5	15
20.7	21.2	21.2	21.2	84.3
21.1	21.1	21.1	21.1	
20.2	20.7	20.7	20.7	
7	8	8	8	25
22.2	22.2	22.2	22.2	87.0
22.7	22.7	22.7	22.7	
22.2	22.7	22.7	22.7	
10	14	25		
TOTAL	42.1	56.7	109.1	

NUMBER OF MILES TRAVELLED - 210000

VEHICLES USED IN 1951 AND 1952 FOR THIS ROUTE  
 1700 BYTES OF MEMORY PER HOUR

00000

V71                    EIKORLEBTHLAP                    IV VIZ                    E+C VE K+Z HOZI

COUNT		VIZ				ROW TOTAL
ROW	COL	1	2	3	4	
V71	2	1	12	2	0	15
STOLAS		7.0	70.5	15.0	0.0	92.5
		123.0	50.0	40.0	0.0	
		4.0	42.0	8.0	0.0	
	1	2	5	3	1	11
OTISS		1.1	15.2	15.1	0.2	31.6
		0.0	44.4	51.2	120.0	
		0.0	30.0	10.0	7.0	
		1	10	5	1	17
	TOTAL	4.0	72.7	23.0	7.0	106.7

THE COLLECTED DATA IS SUBJECT TO THE 2 DEGREE OF FREEDOM NUMBER OF MISSING OBSERVATIONS = 1

6 DEGREE USED IN A FORMULA OF 2R DEGREE FOR THIS ROW. (2000 2400 OF REPORT PAGE)

14774

771

CONFIDENTIAL

BY: VIA

OTHER USE, FOR

771

03/15

03/15

		VIA		
CONF		CONF	CONF	
NO. SET	NO. SET	NO. SET	NO. SET	TOTAL
NO. SET	NO. SET	NO. SET	NO. SET	
0	0	0	0	0
	50.0	50.0	50.0	50.0
	50.0	50.0	50.0	
	50.0	50.0	50.0	
	0	0	0	0
	50.0	50.0	50.0	50.0
	50.0	50.0	50.0	
	50.0	50.0	50.0	
TOTAL	10	10	10	30
TOTAL	50.0	50.0	50.0	150.0

CONFIDENCE = 0.00000000 : DEGREE OF FREEDOM  
 NUMBER OF MISSING OBSERVATIONS = 0

DELTA USED IN ANALYSIS OF 00 0000 FOR THIS DATA  
 LEADS BYTES OF MEMORY FREE.

74 D. NORTHERN... BY V.E. 1/30/50 VER. ORAN RM

COUNT	V10		
	YELLOW	GREEN	TOTAL
7	5	7	12
41.0	55.0	51.0	
55.0	70.0		
50.0	50.0		
2	3	10	
23.0	25.0	37.0	
44.0	51.0		
10.0	30.0		
8	15	20	
TOTAL	37.0	50.0	100.0

AT SOURCE = 0.1770 WITH 1 SAMPLE IN FREEDOM.  
 NUMBER OF VISUOUS OBSERVATIONS = 5

RELEASED BY A... OF... FOR THIS...  
 1947... AT... PRICE.



74

B. KANTHAPPA

BY VLE

KORAP VER. BRON BR

74

ZOLIS

74

COUNT		VLE		REL
201	202	KULLAP	ALLOP	REL
201	202	ALLOP	KULLAP	REL
201	202	7	1	
	2	E	7	12
		41.5	55.0	53.2
		55.5	75.0	
		20.5	25.1	
		2	5	12
		23.2	35.5	52.2
		41.7	53.4	
		18.0	22.3	
		5	15	24
		37.5	52.5	102.2

NO SPARE # 0,1778 100% 1. NUMBER OF FREEDY  
 NUMBER OF MISSING OBSERVATIONS # 0

REAR LIND OF 2 YOUNG OF 25 HELD FOR THIS RUN.  
 FACT ENTER IN MEMORY FILE.

COPY

VTI	D. KORTISARTICLAR			BY	VIB	GARIT VE DIBYOKEN
	VIB					
	DOYNT	TRIKU	TEKLIK	ROW, D	ROW	
	ROW PUT		K BASKI	TEKLIK	TOTAL	
	ROW PUT					
VTI	0	4	0	1	7	
RTGLIS		17.1	22.8	14.8	52.8	
		50.4	22.8	52.8		
		32.7	15.8	7.8		
		4	1	1	8	
		26.8	18.8	18.8	40.1	
		50.8	22.8	52.8		
		32.7	7.8	7.8		
		8	2	2	12	
		21.8	22.8	15.8	100.8	

BY EDGAR # 0, 2575 LIT - 2 DESIRES OF FREEDOM.  
 NUMBER OF ROBERTI INSTANTIONS = 12

2 CELLS USED IF A NUMBER OF 20 CELLS FOR THIS RUN.  
 15000 LINES OF MEMORY USED.

11

copy

74 D. KANTOR 1977 BY V18 GERTON VS DEBIGNY

		V18			
DATE	TIME	FROM	TO	BY	REMARKS
74	0	4	2	1	7
74-10	07.1	08.8	14.8		08.8
	08.1	08.7	21.2		
	08.7	15.2	7.2		
74-10	1	2	1	1	2
	01.8	10.8	10.8		10.8
	08.8	08.7	08.7		
	08.7	14.2	7.2		
	0	0	0		10
TOTAL	0.8	22.8	18.2		110.8

1. COURSE = 0.0578 V18 1 DEGREE OF FREQUENCY  
 2. COURSE OF RECEIVING INSTRUMENT = 10

3. COURSE OF RECEIVING INSTRUMENT OF 20 CELLS FOR THIS RUN.  
 4. COURSE OF RECEIVING INSTRUMENT

00000

74 P. K. 11: ESTIMATED BY VEE YALE REP. USE: 100

COUNT	VEE		TOTAL
	DESEL	YARDIY	
ROW POT	DESEL	YARDIY	ROW
COL POT	DESEL	YARDIY	COL
TOT POT	DESEL	YARDIY	TOT
74	7	6	13
ZOLIO	50.8	40.1	90.9
	48.6	50.3	
	20.0	24.3	
	6	4	10
THIS	55.8	38.3	94.1
	51.0	43.2	
	22.0	26.0	
REMARKS	15	10	25
TOTAL	211.2	121.7	332.9

NO FURTHER WORK TO BE DONE BY CONTRACTOR. DEPOSIT OF FRIEDRY.  
 INDEX OF MISSING CONTRIBUTIONS =

PLEASE USE OF A NUMBER OF 20 DOLLARS FOR THIS WORK.  
 EACH TYPE OF WORK IS FREE.

0000

-----  
71 2, 4, 11, 15, 18, 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100  
-----

NET

DATE	AMOUNT	PAID	BALANCE
	10		10
12.15	23.0	73.8	58.7
	67.0	67.8	
	12.7	70.2	
	10	10	10
15.15	18.8	82.3	48.1
	42.8	81.5	
	3.4	83.0	
TOTAL	10	83	83
TOTAL	83.8	83.8	83.7

ALL BALANCE IS PAID WITH A RECEIPT OF PAYMENT.  
LIST OF DEBITORS 12/15/77 IS #

ALL BALANCE IS PAID WITH A RECEIPT OF PAYMENT.  
LIST OF DEBITORS 12/15/77 IS #

DRY

S. KARL BENTLEY

BY VED

VAL. BAR. FLYOTLAND

POINT	VED		
	DECEL	VRADN	ROV
NOV FEB			TOTAL
DEL FOR			
DEL FOR			
1	0	0	0
2	0	0	0
3	0	0	0
4	0	0	0
5	0	0	0
6	0	0	0
7	0	0	0
8	0	0	0
9	0	0	0
10	0	0	0
11	0	0	0
12	0	0	0
13	0	0	0
14	0	0	0
15	0	0	0
16	0	0	0
17	0	0	0
18	0	0	0
19	0	0	0
20	0	0	0
21	0	0	0
22	0	0	0
23	0	0	0
24	0	0	0
25	0	0	0
26	0	0	0
27	0	0	0
28	0	0	0
29	0	0	0
30	0	0	0
31	0	0	0
32	0	0	0
33	0	0	0
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35	0	0	0
36	0	0	0
37	0	0	0
38	0	0	0
39	0	0	0
40	0	0	0
41	0	0	0
42	0	0	0
43	0	0	0
44	0	0	0
45	0	0	0
46	0	0	0
47	0	0	0
48	0	0	0
49	0	0	0
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57	0	0	0
58	0	0	0
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61	0	0	0
62	0	0	0
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64	0	0	0
65	0	0	0
66	0	0	0
67	0	0	0
68	0	0	0
69	0	0	0
70	0	0	0
71	0	0	0
72	0	0	0
73	0	0	0
74	0	0	0
75	0	0	0
76	0	0	0
77	0	0	0
78	0	0	0
79	0	0	0
80	0	0	0
81	0	0	0
82	0	0	0
83	0	0	0
84	0	0	0
85	0	0	0
86	0	0	0
87	0	0	0
88	0	0	0
89	0	0	0
90	0	0	0
91	0	0	0
92	0	0	0
93	0	0	0
94	0	0	0
95	0	0	0
96	0	0	0
97	0	0	0
98	0	0	0
99	0	0	0
100	0	0	0
TOTAL	0	0	0

BLANK = 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

THIS LIST OF POINTS IS BE HELD FOR THE USE OF THE OFFICE OF THE DIRECTOR OF THE BUREAU OF WEATHER SERVICE

ADBY

71

B. MORRISON/ISLER

BY V22

NO. 1 RAP. SD. 1. 4

71

VALRS

RTRR

COUNT		V22		
NEW	RET	DEBIT	WORDLY	FOR
DEL	RET		NOI	TOTAL
NEW	RET	0	1	
0	0	0	0	12
		61.0	26.4	62.7
		47.4	23.0	
		28.0	28.0	
0	0	0	0	12
		78.4	28.7	48.2
		22.0	17.0	
		30.0	13.0	
DEBIT		17	0	25
TOTAL		68.0	28.7	121.2

0 60.000 = 2,3197 11- 1 200000 OF FREEDOM.  
 10000 OF VIBRATING RESTRUCTURING =

DEBIT USED OF A MAXIMUM OF 28 CELLS FOR THIS ROW.  
 1000 BYTES OF MEMORY FREE.

D. MARGRETT

BY VBA

NO. 1 4000 400000

10/7

DATE

ROW	POST	DEBIT	CREDIT	TOTAL
1	7	0	10	
		51.6	71.1	51.1
		71.1	71.1	
		51.6	51.1	
<hr/>				
		10	0	10
		51.3	15.0	46.3
		51.8	51.3	
		72.0	0.0	
<hr/>				
COLONY		17	0	17
TOTAL		51.7	10.0	123.0

ROW	POST	DEBIT	CREDIT	TOTAL
1	7	0	10	
		51.6	71.1	51.1
		71.1	71.1	
		51.6	51.1	
<hr/>				
		10	0	10
		51.3	15.0	46.3
		51.8	51.3	
		72.0	0.0	
<hr/>				
COLONY		17	0	17
TOTAL		51.7	10.0	123.0

1 COLONY - 1/10/7 1000 - 1000000 IN PRESENT  
 1000 BY 1000000 DEPOSIT 1000 - 1

1000 1000 1000 1000 1000 1000 1000 1000  
 1000 1000 1000 1000 1000 1000 1000 1000



00000

V74 B. 20015015LPA BY VAS AIR. FRO. WENT

V95			
POINT	1	2	TOTAL
02000	2.0	100.0	102.0
02001	3.1	50.0	53.1
02002	8.3	50.0	58.3
02003	7.1	50.0	57.1
02004	100.0	40.0	140.0
02005	2.1	40.0	42.1
TOTAL	3.0	50.0	53.0

FOR THE YEAR END 2000 WITH A RECORD OF 2000.  
 NUMBER OF PEOPLE INVOLVED IN 2000

THE TOTAL NUMBER OF PEOPLE INVOLVED IN 2000 WAS 1000.  
 NUMBER OF PEOPLE INVOLVED IN 2000

00000

0000

V74 B. KARLISSTIELER BY VEE SIG. LOCAL DIBER

		VEE		
DEBIT				
ROW	COL	KULLAN	WELAN	SIG
NO	NO	ALMANA	ALMANA	TOTAL
NO	NO			
V74		7	1	
	3	2	10	12
AZALIS		0.0	102.0	102.0
		0.0	00.0	
		0.0	01.0	
	1	1	12	13
AVTIS		7.0	00.0	07.0
		100.0	40.0	
		0.0	40.0	
		1	00	01
		0.0	00.0	00.0

ONE COLUMN = 1.0401 KEMP : DEGREE OF FREEDOM  
 NUMBER OF MISSING DISCREPANCIES = 0

3 CELLS USED OF A TOTAL OF 20 CELLS FOR THIS QTY.  
 10000 BYTES OF MEMORY FILE.

3. KAPPA BATTLE

BY VET

SIN. CAL. DEDUCTIONS

DEPT		VET		TOTAL
REG	ACT	MILLARY	CLERY	
REG	ACT	MILLARY	CLERY	TOTAL
	8	5	5	10
		61.5	38.7	100.2
		52.6	47.6	100.2
		38.7	61.5	100.2
	8	5	5	10
		61.5	38.7	100.2
		52.6	47.6	100.2
		38.7	61.5	100.2
TOTAL		100.2	100.2	200.4

PLEASE PRINT NAME OF MEMBER OF HOUSE OF REPRESENTATIVES  
 IN THE SPACE PROVIDED HEREON

THE FIELD OF PAYMENT OF HOUSE OF REPRESENTATIVES  
 IS COVERED BY THIS PAGE

copy

2. ZONE: 000100

BY VSB

BLK. FRAM. DESCR. 0

COUNT		VSB		TOTAL
REL. POS.	REL. POS.	ILLUMIN.	ILLUMIN.	
(01-100)	(101-200)	0	1	
0	0	0	0	0
5.5	28.4	33.9		
47.8	38.3			
38.7	15.8			
1	0	4	13	
28.8	37.7			
28.8	24.4			
34.8	15.3			
ILLUMIN.	1	0	21	
TOTAL	108.8	24.6	130.7	

3. COLOR = 1, 1580 4. TIME = 1. DIFFERENTIAL FREQUENCY  
 5. AIR OF WINDING DERIVATIVE = 1

6. USE OF 2 VOLT. 7. OF 20 DUE TO POSITIVE PIV.  
 8. BYTES OF MEMORY USED.

0-000

-----  
 74                    2. KORTLEF VIBL. 49                    BY    VRF                    STR.    P. 00.    DEGREE  
 -----

		VRF		
COUNT		KILLER	KILLER	20
FOR THE		210000	210000	TOTAL
CEL. 300		0	0	
74		10	3	13
VALUE		73.0	17.0	90.0
		45.4	73.0	
		30.4	11.0	
		10	1	11
		92.0	7.0	99.0
		67.0	22.0	
		15.0	3.0	
		20	4	24
		87.0	16.0	103.0

OF ABOVE =                    210000                    DEFICITS OF PROBABLY  
 LAYER OF MISSING OBSERVATIONS =                    2

THIS USED OF 0 KAYL. 10 00 0000 FOR THE 74  
 1000 BYTES IN 10-000 0000.



TABLE

VC1      SCHEDULED BY TRIP      BY VIZ      FIVE VE A-T AZIR

VC1	CONV	VIZ				TOTAL
		NO. OF	NO. OF	NO. OF	NO. OF	
NO. OF	NO. OF	NO. OF	NO. OF	NO. OF	NO. OF	NO. OF
0	0	0	0	0	0	0
EXCISE	0	0.0	100.0	0.0	0.0	04.0
		0.0	00.0	0.0	0.0	
		0.0	04.0	0.0	0.0	
ARTS	1	0.0	00.0	00.0	0.0	00
		00.0	00.0	00.0	00.0	00.0
		0.0	00.0	00.0	0.0	
DELIVER	1	0	00	0	0	00
TOTAL		0.0	00.0	00.0	0.0	00.0

FOR COLUMN -      SCHEDULE BY TRIP      SCHEDULES OF TRIP,      NUMBER OF TRIP SCHEDULES =

FOR COLUMN -      SCHEDULE BY TRIP      SCHEDULES OF TRIP,      NUMBER OF TRIP SCHEDULES =

SAFETY/ARMY/NAVY/AF/OT

BY V14

APPROX. YEAR FOR PKG

QTY	UNIT PRICE	TOTAL PRICE	REMARKS
1	100.00	100.00	
2	50.00	100.00	
3	33.33	100.00	
4	25.00	100.00	
5	20.00	100.00	
6	16.67	100.00	
7	14.29	100.00	
8	12.50	100.00	
9	11.11	100.00	
10	10.00	100.00	
TOTAL		100.00	

1. COLLECTOR = 1,7284 10% 1.000000 OF 1.000000  
 2. PERCENT OF FEDERAL GOVERNMENT = 0

THE A UNIT OF 1,000.00 OF 100.00 FOR THE YEAR  
 AND BY THE FEDERAL GOVERNMENT



ENDING PERIOD

BY

APPROVED, SIGNATURE

RECEIVED  
BY  
DATE

1	100.00	100.00	100.00
2	100.00	100.00	100.00
3	100.00	100.00	100.00
4	100.00	100.00	100.00
5	100.00	100.00	100.00
6	100.00	100.00	100.00
7	100.00	100.00	100.00
8	100.00	100.00	100.00
9	100.00	100.00	100.00
10	100.00	100.00	100.00
11	100.00	100.00	100.00
12	100.00	100.00	100.00
13	100.00	100.00	100.00
14	100.00	100.00	100.00
15	100.00	100.00	100.00
16	100.00	100.00	100.00
17	100.00	100.00	100.00
18	100.00	100.00	100.00
19	100.00	100.00	100.00
20	100.00	100.00	100.00
21	100.00	100.00	100.00
22	100.00	100.00	100.00
23	100.00	100.00	100.00
24	100.00	100.00	100.00
25	100.00	100.00	100.00
26	100.00	100.00	100.00
27	100.00	100.00	100.00
28	100.00	100.00	100.00
29	100.00	100.00	100.00
30	100.00	100.00	100.00
31	100.00	100.00	100.00
32	100.00	100.00	100.00
33	100.00	100.00	100.00
34	100.00	100.00	100.00
35	100.00	100.00	100.00
36	100.00	100.00	100.00
37	100.00	100.00	100.00
38	100.00	100.00	100.00
39	100.00	100.00	100.00
40	100.00	100.00	100.00
41	100.00	100.00	100.00
42	100.00	100.00	100.00
43	100.00	100.00	100.00
44	100.00	100.00	100.00
45	100.00	100.00	100.00
46	100.00	100.00	100.00
47	100.00	100.00	100.00
48	100.00	100.00	100.00
49	100.00	100.00	100.00
50	100.00	100.00	100.00
51	100.00	100.00	100.00
52	100.00	100.00	100.00
53	100.00	100.00	100.00
54	100.00	100.00	100.00
55	100.00	100.00	100.00
56	100.00	100.00	100.00
57	100.00	100.00	100.00
58	100.00	100.00	100.00
59	100.00	100.00	100.00
60	100.00	100.00	100.00
61	100.00	100.00	100.00
62	100.00	100.00	100.00
63	100.00	100.00	100.00
64	100.00	100.00	100.00
65	100.00	100.00	100.00
66	100.00	100.00	100.00
67	100.00	100.00	100.00
68	100.00	100.00	100.00
69	100.00	100.00	100.00
70	100.00	100.00	100.00
71	100.00	100.00	100.00
72	100.00	100.00	100.00
73	100.00	100.00	100.00
74	100.00	100.00	100.00
75	100.00	100.00	100.00
76	100.00	100.00	100.00
77	100.00	100.00	100.00
78	100.00	100.00	100.00
79	100.00	100.00	100.00
80	100.00	100.00	100.00
81	100.00	100.00	100.00
82	100.00	100.00	100.00
83	100.00	100.00	100.00
84	100.00	100.00	100.00
85	100.00	100.00	100.00
86	100.00	100.00	100.00
87	100.00	100.00	100.00
88	100.00	100.00	100.00
89	100.00	100.00	100.00
90	100.00	100.00	100.00
91	100.00	100.00	100.00
92	100.00	100.00	100.00
93	100.00	100.00	100.00
94	100.00	100.00	100.00
95	100.00	100.00	100.00
96	100.00	100.00	100.00
97	100.00	100.00	100.00
98	100.00	100.00	100.00
99	100.00	100.00	100.00
100	100.00	100.00	100.00

RECEIVED  
BY  
DATE

81      DATELY      BY      VIA      WORK PER. FROM AN

	1	2	3	4
81				
81	3	2	4	3
81	32.3	33.3	33.3	33.3
	33.3	33.3	33.3	
	3.3	3.3	3.3	
81	7	11	12	12
81	33.3	31.1	33.3	
	77.7	73.3		
	33.3	33.3		
81	9	13	14	
TOTAL	37.3	33.3	33.3	

TO BOARD OF DIRECTORS OF THE COMPANY  
 FROM THE BOARD OF DIRECTORS OF THE COMPANY

THIS REPORT IS A SUMMARY OF THE WORK FOR THIS PERIOD  
 FROM DATE OF REPORTING





100Y

-----  
 1                    SATTLEBERRY, CHARLES                    BY    VLS                    POP. STATISTICS BY  
 -----

		VLS		
ROW	POP	LYSALA	LYSALA	ROW
COL	POP	LYSALA	LYSALA	TOTAL
POP	POP			
	7	5	5	2
0010	20.0	20.0	20.0	60.0
	15.0	15.0	15.0	
	7.0	7.0	7.0	
	15	7	7	29
0010	20.0	20.0	20.0	70.0
	15.0	15.0	15.0	
	11.0	11.0	11.0	
0010	15	11	11	37
TOTAL	57.0	43.0	43.0	143.0

... SOURCE = ... LIBRARY OF FREEDOM ...  
 ... OF ... INFORMATION ...

... USE OF ... FOR ...  
 ... OF ...

SATURDAY, APRIL 17

BY VEZ

CALL 888, 12.8 12.8

		VEZ		
RDK	NOY	DEBT	VENDEK	RDK
DE	RDY		BY	VENA
TOT	RDY	0	1	
2		5	3	6
		50.2	57.5	57.2
		22.7	31.2	
		10.2	18.7	
1		12	7	18
		53.1	35.2	75.2
		22.8	73.2	
		40.6	68.9	
DEB		15	10	25
TOTAL		28.2	60.7	100.1

10.038 = 2.1222 WIT - 1.2222 OF 10.038  
 NET OF 10.038 10.038 =

THE 10.038 OF A 10.038 OF 10.038 10.038 10.038  
 10.038 OF 10.038 10.038

STATIONARY

DATE

TIME

	1	2	3
10	11.1	11.1	11.1
15	11.1	11.1	11.1
20	11.1	11.1	11.1
25	11.1	11.1	11.1
30	11.1	11.1	11.1
35	11.1	11.1	11.1
40	11.1	11.1	11.1
45	11.1	11.1	11.1
50	11.1	11.1	11.1
55	11.1	11.1	11.1
60	11.1	11.1	11.1
65	11.1	11.1	11.1
70	11.1	11.1	11.1
75	11.1	11.1	11.1
80	11.1	11.1	11.1
85	11.1	11.1	11.1
90	11.1	11.1	11.1
95	11.1	11.1	11.1
100	11.1	11.1	11.1

STATIONARY  
DATE  
TIME  
10 11.1 11.1 11.1  
15 11.1 11.1 11.1  
20 11.1 11.1 11.1  
25 11.1 11.1 11.1  
30 11.1 11.1 11.1  
35 11.1 11.1 11.1  
40 11.1 11.1 11.1  
45 11.1 11.1 11.1  
50 11.1 11.1 11.1  
55 11.1 11.1 11.1  
60 11.1 11.1 11.1  
65 11.1 11.1 11.1  
70 11.1 11.1 11.1  
75 11.1 11.1 11.1  
80 11.1 11.1 11.1  
85 11.1 11.1 11.1  
90 11.1 11.1 11.1  
95 11.1 11.1 11.1  
100 11.1 11.1 11.1





0000

01

WORLD BANK

1968

PAID FOR...

01

PAID

PAID

WORLD BANK		WORLD BANK	WORLD BANK	WORLD BANK
DATE	AMOUNT	DATE	AMOUNT	DATE
1968	63.5	1968	14.5	1968
	25.4		13.8	
	22.0		11.7	
<hr/>				
	12	1968	7	1968
	63.1	1968	22.3	1968
	77.5	1968	17.1	
	88.7	1968	15.1	
<hr/>				
PAID	17	1968	2	1968
TOTAL	88.7	1968	22.3	1968

WORLD BANK ...

WORLD BANK ...



BY

ENTIRELY BY ARTICLES

BY VOT

CON. FOR. BENEVOLE

	VOT		
	1	2	TOTAL
10	8.0	10.0	18.0
	8.2	17.0	25.2
	7.2	16.0	23.2
15	8.0	68.0	76.0
	10.0	70.0	80.0
	1.0	70.0	71.0
DELYN	1	22	23
TOTAL	1.2	91.0	92.2

SQUARE = 2.3444 VOT : SQUARE OF FIBER  
 SET OF SPECIFIC INDICATORS = 9

ALL USED OR A MAXIMUM OF 20 BELL PER THIS RUN.  
 1 BYED BY VOTARY FARE.



1977

STATE OF TEXAS

COMPTROLLER

REPORT OF REVENUES AND EXPENDITURES

1977

REVENUES	1,114,000,000	1,114,000,000	1,114,000,000
EXPENDITURES	1,114,000,000	1,114,000,000	1,114,000,000
DEFICIT	0	0	0

1	0	0	0
2	50.1	51.1	50.0
	16.7	17.1	
	13.8	14.8	

3	15	17	20
4	58.6	58.8	70.0
5	6.8	7.1	
6	17.2	15.0	

7	15	17	15
8	51.2	51.1	50.0

STATE OF TEXAS DEPARTMENT OF REVENUE

REPORT OF REVENUES AND EXPENDITURES

30V

SPRISLAR, CONTINUED

BY VAC

SIN. PAOL. DISTRICT

COUNT	VAC		ACT. TOTAL
	REG. A. BLYAKS	REG. B. BLYAKS	
0	3	3	6
1	58.0	58.1	116.1
2	17.0	38.0	55.0
3	11.0	11.0	22.0
4	1.0	2.0	3.0
5	72.0	31.0	103.0
6	88.0	21.0	109.0
7	88.0	38.0	126.0
TOTAL	17	7	24
TOTAL	21.1	20.0	41.1

1. SOLAR... 1. 1957... 1. DISTRICT OF...  
 YEAR OF... 1957... 1. 2

BEING... OF A... OF 20... FOR...  
 200... OF EVERY...

BATTLE PAS. ARTICLES BY VEC AIR. MAG. DATES AND

COUNT		VIC		ADJ
ROW	COL	ILLION	ILLION	
001	001	0	1	
<hr/>				
2	5	1	1	2
	88.8	16.8		82.2
	22.7	22.0		
	19.8	3.6		
<hr/>				
17	3			22
	85.8	18.0		78.2
	77.8	72.0		
	85.8	11.8		
<hr/>				
001	001	20	4	22
TOTAL	21.8	1.2	120.7	

REPORT - BATTLE PAS - 1 BATTLE AT TROBIA,  
IN DE. SLOTTING OPERATIONS =

AS LIST OF A MAYINLY OF 22 BATTLE AT TROBIA,  
DATE OF BATTLE PAS.

CONTINUED

VS

STATE OF TEXAS

DATE	DEBIT	CREDIT	BALANCE
			0
	11.5	20.5	11.7
	11.0	20.0	
	16.0	11.8	
		7	11.8
	20.1	11.1	20.1
	50.0	18.0	
	35.0	10.0	
10/10/01	10	14	20
11/01	41	10.0	41.0

STATE OF TEXAS, COUNTY OF DALLAS, DEPARTMENT OF HEALTH SERVICES

THE STATE OF TEXAS, COUNTY OF DALLAS, DEPARTMENT OF HEALTH SERVICES



ESTABLISHED BY THE

IN THE

OF THE

OF THE

1911

NO. OF EST. EST.	TOTAL EST.	BY YEAR		BY YEAR		TOTAL
		1	2	3	4	
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75
76	76	76	76	76	76	76
77	77	77	77	77	77	77
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	80	80	80	80	80	80
81	81	81	81	81	81	81
82	82	82	82	82	82	82
83	83	83	83	83	83	83
84	84	84	84	84	84	84
85	85	85	85	85	85	85
86	86	86	86	86	86	86
87	87	87	87	87	87	87
88	88	88	88	88	88	88
89	89	89	89	89	89	89
90	90	90	90	90	90	90
91	91	91	91	91	91	91
92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
98	98	98	98	98	98	98
99	99	99	99	99	99	99
100	100	100	100	100	100	100

ESTABLISHED BY THE IN THE OF THE OF THE

ESTABLISHED BY THE IN THE OF THE OF THE

ESTABLISHED BY THE IN THE OF THE OF THE

ESTABLISHED BY THE IN THE OF THE OF THE

BY

DATE: 02 02 1967

BY: VIA

RECEIVED: 02 02 1967

VIA:

NO.	DATE	DESCRIPTION	AMOUNT	TOTAL
1	02 02 67	WELLS	10.00	10.00
2	02 02 67	WELLS	10.00	20.00
3	02 02 67	WELLS	10.00	30.00
4	02 02 67	WELLS	10.00	40.00
5	02 02 67	WELLS	10.00	50.00
6	02 02 67	WELLS	10.00	60.00
7	02 02 67	WELLS	10.00	70.00
8	02 02 67	WELLS	10.00	80.00
9	02 02 67	WELLS	10.00	90.00
10	02 02 67	WELLS	10.00	100.00
11	02 02 67	WELLS	10.00	110.00
12	02 02 67	WELLS	10.00	120.00
13	02 02 67	WELLS	10.00	130.00
14	02 02 67	WELLS	10.00	140.00
15	02 02 67	WELLS	10.00	150.00
16	02 02 67	WELLS	10.00	160.00
17	02 02 67	WELLS	10.00	170.00
18	02 02 67	WELLS	10.00	180.00
19	02 02 67	WELLS	10.00	190.00
20	02 02 67	WELLS	10.00	200.00
21	02 02 67	WELLS	10.00	210.00
22	02 02 67	WELLS	10.00	220.00
23	02 02 67	WELLS	10.00	230.00
24	02 02 67	WELLS	10.00	240.00
25	02 02 67	WELLS	10.00	250.00
26	02 02 67	WELLS	10.00	260.00
27	02 02 67	WELLS	10.00	270.00
28	02 02 67	WELLS	10.00	280.00
29	02 02 67	WELLS	10.00	290.00
30	02 02 67	WELLS	10.00	300.00
31	02 02 67	WELLS	10.00	310.00
32	02 02 67	WELLS	10.00	320.00
33	02 02 67	WELLS	10.00	330.00
34	02 02 67	WELLS	10.00	340.00
35	02 02 67	WELLS	10.00	350.00
36	02 02 67	WELLS	10.00	360.00
37	02 02 67	WELLS	10.00	370.00
38	02 02 67	WELLS	10.00	380.00
39	02 02 67	WELLS	10.00	390.00
40	02 02 67	WELLS	10.00	400.00
41	02 02 67	WELLS	10.00	410.00
42	02 02 67	WELLS	10.00	420.00
43	02 02 67	WELLS	10.00	430.00
44	02 02 67	WELLS	10.00	440.00
45	02 02 67	WELLS	10.00	450.00
46	02 02 67	WELLS	10.00	460.00
47	02 02 67	WELLS	10.00	470.00
48	02 02 67	WELLS	10.00	480.00
49	02 02 67	WELLS	10.00	490.00
50	02 02 67	WELLS	10.00	500.00
51	02 02 67	WELLS	10.00	510.00
52	02 02 67	WELLS	10.00	520.00
53	02 02 67	WELLS	10.00	530.00
54	02 02 67	WELLS	10.00	540.00
55	02 02 67	WELLS	10.00	550.00
56	02 02 67	WELLS	10.00	560.00
57	02 02 67	WELLS	10.00	570.00
58	02 02 67	WELLS	10.00	580.00
59	02 02 67	WELLS	10.00	590.00
60	02 02 67	WELLS	10.00	600.00
61	02 02 67	WELLS	10.00	610.00
62	02 02 67	WELLS	10.00	620.00
63	02 02 67	WELLS	10.00	630.00
64	02 02 67	WELLS	10.00	640.00
65	02 02 67	WELLS	10.00	650.00
66	02 02 67	WELLS	10.00	660.00
67	02 02 67	WELLS	10.00	670.00
68	02 02 67	WELLS	10.00	680.00
69	02 02 67	WELLS	10.00	690.00
70	02 02 67	WELLS	10.00	700.00
71	02 02 67	WELLS	10.00	710.00
72	02 02 67	WELLS	10.00	720.00
73	02 02 67	WELLS	10.00	730.00
74	02 02 67	WELLS	10.00	740.00
75	02 02 67	WELLS	10.00	750.00
76	02 02 67	WELLS	10.00	760.00
77	02 02 67	WELLS	10.00	770.00
78	02 02 67	WELLS	10.00	780.00
79	02 02 67	WELLS	10.00	790.00
80	02 02 67	WELLS	10.00	800.00
81	02 02 67	WELLS	10.00	810.00
82	02 02 67	WELLS	10.00	820.00
83	02 02 67	WELLS	10.00	830.00
84	02 02 67	WELLS	10.00	840.00
85	02 02 67	WELLS	10.00	850.00
86	02 02 67	WELLS	10.00	860.00
87	02 02 67	WELLS	10.00	870.00
88	02 02 67	WELLS	10.00	880.00
89	02 02 67	WELLS	10.00	890.00
90	02 02 67	WELLS	10.00	900.00
91	02 02 67	WELLS	10.00	910.00
92	02 02 67	WELLS	10.00	920.00
93	02 02 67	WELLS	10.00	930.00
94	02 02 67	WELLS	10.00	940.00
95	02 02 67	WELLS	10.00	950.00
96	02 02 67	WELLS	10.00	960.00
97	02 02 67	WELLS	10.00	970.00
98	02 02 67	WELLS	10.00	980.00
99	02 02 67	WELLS	10.00	990.00
100	02 02 67	WELLS	10.00	1000.00

WELLS OF WISCONSIN CROSSING THE RIVER OF FREEDOM

WELLS OF WISCONSIN OF THE RIVER OF FREEDOM

APPY

-----  
 EQUIPMENT SERVICE BY VIE HOURS PER PERSON  
 -----

		VIE		PER CENT
NO.	TYPE	WEEKLY	MONTHLY	
1	...	...	...	...
2	...	...	...	...
3	...	...	...	...
4	...	...	...	...
5	...	...	...	...
6	...	...	...	...
7	...	...	...	...
8	...	...	...	...
9	...	...	...	...
10	...	...	...	...
11	...	...	...	...
12	...	...	...	...
13	...	...	...	...
14	...	...	...	...
15	...	...	...	...
16	...	...	...	...
17	...	...	...	...
18	...	...	...	...
19	...	...	...	...
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93	...	...	...	...
94	...	...	...	...
95	...	...	...	...
96	...	...	...	...
97	...	...	...	...
98	...	...	...	...
99	...	...	...	...
100	...	...	...	...
TOTAL		17	7	51
TOTAL		70.8	85.1	100.0

NO. 101-101-101 : SERVICE OF ...  
 ...

... PER ...  
 ...





STATE ARMY PAYROLL

BY 7/8

STATE OF MISSISSIPPI

VIA

MONTH	STATE	ARMY	NAVY	AIR FORCE	TOTAL
APRIL	100.0	100.0	100.0	100.0	400.0
MAY	100.0	100.0	100.0	100.0	400.0
JUNE	100.0	100.0	100.0	100.0	400.0
JULY	100.0	100.0	100.0	100.0	400.0
AUGUST	100.0	100.0	100.0	100.0	400.0
SEPTEMBER	100.0	100.0	100.0	100.0	400.0
OCTOBER	100.0	100.0	100.0	100.0	400.0
NOVEMBER	100.0	100.0	100.0	100.0	400.0
DECEMBER	100.0	100.0	100.0	100.0	400.0
TOTAL	1200.0	1200.0	1200.0	1200.0	4800.0

1. SALARY = 0.5000 PER HOUR 2. DEDUCTIONS OF FEDERAL TAXES OF 15.00 PER MONTH

3. THIS STATE OF MISSISSIPPI IS THE STATE OF MISSISSIPPI THE STATE OF MISSISSIPPI

COPY

VE1                      BOND PRICE BEHAVE                      BY                      VIS                      RA. QUANTITY OF D

		VIS		
RA	QUANTITY	PRICE	BEHAVE	BY
VE1				
CHARGE	1	33.5	33.5	33.5
		30.5	37.5	
		31.2	31.5	
PRICE		33.5	33.5	33.5
		30.5	37.5	
		31.2	31.5	
TOTAL	12	33.5	33.5	33.5

ALL BOND... 1.100... 1.100... 1.100... 1.100...

ALL BOND... 1.100... 1.100... 1.100... 1.100...

0000

0000

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54                    SATISLARI    BERNOYE                    37    VEZ                    140    300    LILN    DON

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		VEZ		
		DEER	YARDIN	TEK
		DE	DE	TEK
0000	REN POT			
0000	REN POT			
0000	REN POT			
7000	0	0	0	0
		65.5	37.5	22.0
		32.0	20.0	
		20.0	12.0	
		10	7	10
ARTIE	1	55.0	41.1	50.0
		65.0	72.0	
		40.0	20.0	
		15	10	15
		60.0	40.0	120.0

THE SQUARE = 2,000 METERS : DISTANCE OF PROVISION  
 NUMBER OF PERSONS OBSERVED = 2

THESE LOGS OF 2 MIXING OF 20 GALLONS PER HOUR  
 50% BY 10 OF 10% BY 10%





001

DATE: 01/02 000000 BY: VLD

VDR

REV	REV	DEBIT	CREDIT	REV
NO	NO			NO
1	2	11.8	07.5	02.1
		23.3	01.0	
		4.2	22.3	
2	3	11.7	00.0	00.0
		00.0	00.0	
		00.0	00.0	
DEBIT		00	00	00
TOTAL		100.0	100.0	100.0

0 000000 0 000000 WITH 0 000000 OF 000000.  
 FROM 00 000000 000000.000000

DEBIT USED BY 0 000000 OF 00 000000 PER 000000 00.  
 00 000000 OF 000000 000000.

CAPITULATION SERVICE

BY VEE

WORLD WAR, 1914-1918

VEE		DEPT.	VERDUN	PER
NO.	NAME			
1		6	1	17
2		6	1	17
3		6	1	17
4		6	1	17
5		6	1	17
6		6	1	17
7		6	1	17
8		6	1	17
9		6	1	17
10		6	1	17
11		6	1	17
12		6	1	17
13		6	1	17
14		6	1	17
15		6	1	17
16		6	1	17
17		6	1	17
18		6	1	17
19		6	1	17
20		6	1	17
21		6	1	17
22		6	1	17
23		6	1	17
24		6	1	17
25		6	1	17
26		6	1	17
27		6	1	17
28		6	1	17
29		6	1	17
30		6	1	17
31		6	1	17
32		6	1	17
33		6	1	17
34		6	1	17
35		6	1	17
36		6	1	17
37		6	1	17
38		6	1	17
39		6	1	17
40		6	1	17
41		6	1	17
42		6	1	17
43		6	1	17
44		6	1	17
45		6	1	17
46		6	1	17
47		6	1	17
48		6	1	17
49		6	1	17
50		6	1	17
51		6	1	17
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64		6	1	17
65		6	1	17
66		6	1	17
67		6	1	17
68		6	1	17
69		6	1	17
70		6	1	17
71		6	1	17
72		6	1	17
73		6	1	17
74		6	1	17
75		6	1	17
76		6	1	17
77		6	1	17
78		6	1	17
79		6	1	17
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87		6	1	17
88		6	1	17
89		6	1	17
90		6	1	17
91		6	1	17
92		6	1	17
93		6	1	17
94		6	1	17
95		6	1	17
96		6	1	17
97		6	1	17
98		6	1	17
99		6	1	17
100		6	1	17
TOTAL		63.2	31.6	131.7

BEFORE = ...

ALL ...

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BOULELOR-DE... 00000

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ADBY

BY	USE	SIR	FOO	OTHER
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USE

UNIT	QTY	UNIT PRICE	AMOUNT	TOTAL
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CA

2	3	7	21	21
2	10	18.7	37.4	58.4
2	10	18.7	37.4	95.8

TYPE

1	7	14	14	14
3.5	17.7	61.9	75.9	151.8
10	18.7	187	338.9	490.7

1	35	35	35	35
10	18.7	187	222	457

AT 21.000 = 2.4000 UNIT OF FREIGHT, OTHER OF WHICH'S WEIGHT VALUE

BEING USED OF A MAXIMUM OF 10 DOLLAR FOR THIS RUN (5.75 PERCENT OF WEIGHT VALUE)

BY

OFFICE OF THE SECRETARY

OF THE

NAVY DEPARTMENT

NAVY

DATE	NAME	RANK	REG'T	COMP.

1

1				
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4

2

1				
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4

1				
	1	1	1	1
	2	2	2	2
	3	3	3	3
	4	4	4	4

1. OFFICE OF THE SECRETARY OF THE NAVY DEPARTMENT

2. OFFICE OF THE SECRETARY OF THE NAVY DEPARTMENT

074

4 STATE AGENCY EMPLOYEES IV VRS 874 3481 233018

		VRS		
DATE	NO.	AMOUNT	AMOUNT	TOTAL
1974	10	2	1	
9	4	4	5	
10	32.2	23.1	55.3	
11	22.5	17.1		
12	15.2	15.2		
1	11	7	18	
2	72.2	27.7	99.9	
3	72.4	25.5		
4	21.2	15.2		
5	17	5	22	
6	10.2	14.2	24.4	

STATE # 11134 111 DEPT OF TREASURY  
 DATE OF BIRTH 11/11/1911

THIS LEAF IS A COPY OF THE SS DATA FOR THIS PL  
 ALL OTHERS IN THIS FILE

NOV 1954

-----  
 VES4                      BATTERLARDUZ      BARRAGE                      BY      VES                      BATT. FID.      BARRAGE

		VES		
NOV	NOV	NOV	NOV	TOTAL
NOV	NOV	NOV	NOV	TOTAL
154	0	0	0	0
155	78.0	20.0	12.7	
	27.0	27.0		
	22.0	7.0		
156	10	0	17	
	88.0	11.1	38.0	
	72.7	50.0		
	61.5	7.0		
BUILD	20	0	10	
TOTAL	64.0	18.0	100.0	

BY RELEASE      0.5007      BARRAGE OF FIDELITY  
 LABEL OF FIDELITY      BARRAGE

THE FIDELITY OF A PORTABLE OF FIDELITY OF FIDELITY  
 THE FIDELITY OF FIDELITY





10	-0.0537 00	0.1100 00	0.1100 00	0.1100 00	0.1100 00	0.1100 00
	-0.0537	0.1100	0.1100	-0.0537	-0.0537	0.1100
11	-0.0537 00	-0.0537 00	-0.0537 00	-0.0537 00	-0.0537 00	-0.0537 00
	-0.0537	-0.0537	-0.0537	-0.0537	-0.0537	-0.0537
12	-0.0537 00	0.1100 00	-0.0537 00	-0.0537 00	0.1100 00	-0.0537 00
	-0.0537	0.1100	-0.0537	-0.0537	0.1100	-0.0537
13	0.1100 00	0.1100 00	0.1100 00	0.1100 00	-0.0537 00	-0.0537 00
	0.1100	0.1100	0.1100	0.1100	-0.0537	-0.0537
14	-0.0537 00	0.1100 00	0.1100 00	-0.0537 00	-0.0537 00	-0.0537 00
	-0.0537	0.1100	0.1100	-0.0537	-0.0537	-0.0537
15	-0.0537 00	0.1100 00	-0.0537 00	-0.0537 00	0.1100 00	-0.0537 00
	-0.0537	0.1100	-0.0537	-0.0537	0.1100	-0.0537

00:00:00

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	V02	V03	V04	V05	V06	V07
V04	0.1702 14 0.1702	-0.3827 22 -0.472	-0.2857 28 -1.282	-0.2857 28 -1.282	-0.1712 26 -0.1712	-0.1712 26 -0.1712
V05	55.1113 14 ***+*	7.2103 22 1.125	0.2811 28 1.282	1.2002 28 1.427	-1.1159 26 -2.511	1.2103 26 1.124
V04	0.2255 14 0.2257	-0.1422 22 -0.675	-0.2847 28 -1.215	0.1095 28 1.155	-1.1222 26 -0.225	-1.1222 26 -0.225
V04	-0.1112 14 -0.1112	-0.1217 22 -2.522	-0.1473 28 -0.222	-0.1155 28 -1.252	-0.2117 26 -0.111	-0.2117 26 -1.111
V04	-0.2211 14 -0.171	-0.1147 22 -0.221	0.1117 28 0.521	-0.1175 28 -1.221	-0.1175 26 -0.221	0.2211 26 1.111
V04	-0.1111 14 -0.1111	7.1029 22 0.125	-0.1179 28 -1.227	1.1111 28 0.125	-1.1111 26 -1.227	-0.1111 26 -1.111
V02	1.0222 14 ***+*	-0.1711 22 -1.112	-0.1222 28 -0.227	-0.1711 28 -1.222	1.1111 26 0.227	0.1711 26 0.111
V02	-0.1111 14 -0.1111	1.2103 22 1.124	0.2811 28 1.282	-1.1159 28 1.155	1.1111 26 1.124	-0.1111 26 -1.111
V02	-0.1111 14 -0.1111	0.1111 22 -0.221	1.1111 28 1.111	1.1111 28 1.111	1.1111 26 1.111	1.1111 26 1.111

NOV	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
NOV	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
NOV	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
NOV	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
NOV	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
NOV	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000
	01.0000	01.0000	01.0000	01.0000	01.0000	01.0000

(CONTINUED)

1944

1944	1.1000	1.1000	1.1000
	1.1000	1.1000	1.1000
1945	1.1000	1.1000	1.1000
	1.1000	1.1000	1.1000
1946	1.1000	1.1000	1.1000
	1.1000	1.1000	1.1000
1947	1.1000	1.1000	1.1000
	1.1000	1.1000	1.1000
1948	1.1000	1.1000	1.1000
	1.1000	1.1000	1.1000
1949	1.1000	1.1000	1.1000
	1.1000	1.1000	1.1000

1944 1945 1946 1947 1948 1949

00000

DATA CONT  
VALID  
UNDEFINED

	V11	V12	V13	V14	V15	V16
V11	0.0000 0 -0.000	0.0000 0 0.000	0.0000 0 0.000	-0.0000 0 -0.000	0.0000 0 0.000	0.0000 0 0.000
V12	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V13	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	-0.0000 0 -0.000	0.0000 0 0.000	0.0000 0 0.000
V14	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V15	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	-0.0000 0 -0.000	0.0000 0 0.000	0.0000 0 0.000
V16	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V17	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V18	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V19	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V20	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V21	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V22	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V23	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V24	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V25	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V26	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V27	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V28	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V29	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000
V30	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000	0.0000 0 0.000

UNDEFINED

DEAR GENT  
 10/10/10  
 10/10/10

	VED.	COE.
V10	0.0777 2 - 1.007	0.1000 2 - 0.000
V11	0.1000 24 1.000	0.0000 24 1.000
V12	-0.1000 24 -0.000	-0.0000 24 -0.000
V13	1.0000 24 1.000	2.0000 24 0.000
V14	1.0000 24 1.000	0.0000 24 1.000
V15	1.0000 24 1.000	1.0000 24 1.000
V16	1.0000 24 1.000	0.0000 24 1.000
V17	1.0000 24 1.000	1.0000 24 1.000

DEAR GENT

00000

DEAR DEAR  
V0100  
\*\*\*\*\*

	V11	V14	V15	V15	V17	V18
V11	0.0020 0 *****	0.0774 0 0.0774	0.2720 0 0.389	-0.0720 0 -0.389	0.0750 0 0.0750	0.2700 0 0.081
V14	0.0774 0 0.0774	0.0000 0 *****	0.2700 0 0.432	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.170
V15	0.0720 0 0.0720	0.2017 0 0.432	0.0000 0 *****	-0.0710 0 -0.330	0.0000 0 0.0000	0.0000 0 0.000
V16	-0.0720 0 -0.0720	0.0000 0 0.0000	-0.0710 0 -0.0000	0.0000 0 *****	0.0000 0 0.717	0.0000 0 0.000
V17	0.0750 0 0.0750	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.717	***** 0 *****	0.0000 0 0.000
V18	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 *****
V19	-0.0000 0 -0.0000	0.0000 0 0.0000	-0.0000 0 -0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
V20	0.0000 0 0.0000	-0.0000 0 -0.0000	-0.0000 0 -0.0000	0.0000 0 0.0000	-0.0000 0 -0.0000	0.0000 0 0.0000
V21	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	-0.0000 0 -0.0000	0.0000 0 -0.0000



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1944

1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944
1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944
1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944	1. 1. 1944

1944

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0000 0010  
0000 0010

	0000	0001	0002	0003
0000	-0.2107	0.7700	00.7000	0.3000
	00	00	00	00
	-2.700	0.2107	00.0000	1.170
0001	0.3000	-0.1000	0.8000	0.8400
	00	00	00	00
	1.900	-1.700	0.700	7.410
0002	-0.0000	0.0000	0.1000	0.0100
	00	00	00	00
	-1.000	-1.000	0.000	0.070
0003	0.1000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	0.000	0.000
0004	0.0000	-0.0000	-0.0000	0.0000
	00	00	00	00
	0.000	-1.000	-1.000	0.700
0005	0.0000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	-1.000	0.000
0006	0.0000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	0.000	0.000
0007	0.0000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	0.000	0.000
0008	0.0000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	0.000	0.000
0009	0.0000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	0.000	0.000
0010	0.0000	0.0000	0.0000	0.0000
	00	00	00	00
	0.000	0.000	0.000	0.000

E T O D C      S O R V E I R O S Y

1. 222  
2. 22  
3. 222710

V25	V25
0.2774	-0.0400
27	27
0.231	-0.227
-0.1874	-0.1210
21	21
-0.235	-1.712
-0.2101	2.111
21	21
-0.232	0.217
-0.4204	-2.241
20	20
-0.215	-0.15
0.2211	-0.1091
21	21
1.171	-0.271
0.2070	-1.2610
21	21
1.172	-1.171
1.1210	0.2101
21	21
1.1210	1.1210
21	21
1.1210	1.1210
21	21

1. 222 2. 22 3. 222710

10-1000-1088

W1, W17, W18, W19, W20, W21, W22, W23

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CHARACTER RELATION

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	W01	W02	W03	W04	W17	W18
001	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	-0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
002	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
003	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
004	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
005	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
006	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
007	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
008	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
009	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
010	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
011	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000
012	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000	0.0000 0 0.0000

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-8.8034	3.1731	-6.2459	-7.8787	2.1594	3.2444
24	24	24	24	24	24
-10.0115	3.1731	-4.8114	-6.3389	3.7287	3.2444
24	24	24	24	24	24
-10.1111	3.1731	-4.7044	3.7441	-10.0047	-10.3477
24	24	24	24	24	24
-7.1111	3.1731	-1.027	3.4473	-9.1111	-10.7111
24	24	24	24	24	24
-7.1176	3.1731	3.0273	-6.8747	-9.1538	3.0273
24	24	24	24	24	24
-3.553	3.1731	3.2209	-2.3779	-3.515	3.553
24	24	24	24	24	24
-11.1111	3.1731	-1.1111	-1.1111	-1.1111	3.1111
24	24	24	24	24	24
-11.1111	3.1731	-1.1111	-1.1111	-1.1111	3.1111
24	24	24	24	24	24

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0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
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0.1000	0.1000	0.1000	0.1000	0.1000	0.1000
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174 0008  
174 0009

174	174	174	174	174	174
174 0007	174 0008	174 0009	174 0010	174 0011	174 0012
174 0013	174 0014	174 0015	174 0016	174 0017	174 0018
174 0019	174 0020	174 0021	174 0022	174 0023	174 0024
174 0025	174 0026	174 0027	174 0028	174 0029	174 0030
174 0031	174 0032	174 0033	174 0034	174 0035	174 0036
174 0037	174 0038	174 0039	174 0040	174 0041	174 0042
174 0043	174 0044	174 0045	174 0046	174 0047	174 0048
174 0049	174 0050	174 0051	174 0052	174 0053	174 0054
174 0055	174 0056	174 0057	174 0058	174 0059	174 0060
174 0061	174 0062	174 0063	174 0064	174 0065	174 0066
174 0067	174 0068	174 0069	174 0070	174 0071	174 0072
174 0073	174 0074	174 0075	174 0076	174 0077	174 0078
174 0079	174 0080	174 0081	174 0082	174 0083	174 0084
174 0085	174 0086	174 0087	174 0088	174 0089	174 0090
174 0091	174 0092	174 0093	174 0094	174 0095	174 0096
174 0097	174 0098	174 0099	174 0100	174 0101	174 0102

FR 417

V82	-1.0000 00	2.4.11 11	0.0110 10	0.0000 00	0.0000 00	0.0110 10
	-0.0000	0.110	0.0000	0.0000	0.0000	0.110
V83	-2.0000 00	2.0000 00	-2.0000 00	-2.0000 00	0.0000 00	-2.0000 00
	-1.0000	0.0000	-1.0000	-2.0000	0.0000	-1.0000
V84	-3.0000 00	2.0000 00	0.0000 00	-2.0000 00	-0.0000 00	2.0000 00
	-1.0000	0.0000	0.0000	-1.0000	-0.0000	0.0000
V85	-4.0000 00	-2.0000 00	-3.0000 00	-3.0000 00	-3.0000 00	-1.0000 00
	-0.0000	-0.0000	-0.0000	-1.0000	-1.0000	-0.0000
V86	-5.0000 00	2.0000 00	-0.0000 00	-0.0000 00	0.0000 00	-1.0000 00
	-2.0000	0.0000	-0.0000	-1.0000	0.0000	-0.0000
V87	0.0000 00	0.0000 00	0.0000 00	0.0000 00	-0.0000 00	-0.0000 00
	0.0000	0.0000	0.0000	0.0000	-0.0000	-0.0000

(CONTINUED)

STATISTICAL

	V20	V21	V22	V23	V24
41	0.1222	-7.2507	-3.2402	-3.2704	-3.2557
		25	25	25	25
	0.373	-2.476	-0.192	-0.382	-1.268
5	59.0002	0.2522	0.2002	0.4106	0.2508
		25	25	25	25
	0.0000	1.125	1.000	2.100	1.275
64	2.0000	-2.1400	-3.1000	0.2100	-0.2647
		25	25	25	25
	0.000	-0.372	-0.000	0.000	-1.010
74	-0.1025	-3.1007	0.0001	0.1004	-0.1040
		25	25	25	25
	-0.000	-0.100	0.000	0.000	-1.000
81	-0.5111	-0.1107	0.1070	0.2007	0.1047
		25	25	25	25
	-0.170	-0.000	1.010	2.000	0.000
94	-1.1000	-0.1000	-0.1000	0.1000	-0.1000
		25	25	25	25
	-0.100	1.000	-1.000	0.100	0.100
	1.100	-1.100	-0.100	0.100	-1.100
		25	25	25	25
	0.000	-0.100	-0.100	1.100	-0.100
		25	25	25	25
	-0.100	1.100	1.100	0.100	0.100
		25	25	25	25
	0.100	-1.100	-1.100	-0.100	-0.100
		25	25	25	25
	-0.100	1.100	1.100	0.100	0.100
		25	25	25	25

01	00, 1110	0, 1110	0, 1110	0, 1110	0, 1110	0, 1110
	00	00	00	00	00	00
	00000	0, 1110	0, 1110	0, 1110	0, 1110	0, 1110
17	-2, 1110	0, 1110	0, 1110	0, 1110	0, 1110	0, 1110
	00	00	00	00	00	00
	-2, 1110	0, 1110	0, 1110	0, 1110	0, 1110	0, 1110
18	-3, 1110	0, 1110	-3, 1110	-3, 1110	0, 1110	0, 1110
	00	00	00	00	00	00
	-3, 1110	0, 1110	-3, 1110	-3, 1110	0, 1110	0, 1110
19	2, 1110	0, 1110	-2, 1110	-2, 1110	0, 1110	0, 1110
	00	00	00	00	00	00
	2, 1110	0, 1110	-2, 1110	-2, 1110	0, 1110	0, 1110
20	00, 1110	-2, 1110	0, 1110	0, 1110	0, 1110	-2, 1110
	00	00	00	00	00	00
	00000	-2, 1110	0, 1110	0, 1110	0, 1110	-2, 1110
21	2, 1110	-2, 1110	-2, 1110	0, 1110	-2, 1110	0, 1110
	00	00	00	00	00	00
	2, 1110	-2, 1110	-2, 1110	0, 1110	-2, 1110	0, 1110

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1200 000  
V0 000  
1200 000

	V05	V06	V07
04	-0.1713 05 -0.0882	-0.1713 05 -0.0882	0.1888 01 0.0881
05	-0.1888 05 -0.0881	0.1888 05 0.0881	0.1888 01 0.0881
04	-0.1888 05 -0.0881	-0.1888 05 -0.0881	0.1888 06 0.0881
04	0.1888 05 -0.0881	-0.1888 05 -0.0881	0.1888 12 0.0881
04	-0.1888 05 -0.0881	0.1888 05 0.0881	-0.1888 06 -0.0881
04	-0.1888 05 -0.0881	-0.1888 05 -0.0881	0.1888 01 0.0881
	0.1888 05 0.0881	0.1888 05 0.0881	0.1888 01 0.0881
	0.1888 05 0.0881	-0.1888 05 -0.0881	0.1888 01 0.0881
	0.1888 05 0.0881	0.1888 05 0.0881	0.1888 01 0.0881



078	-0.2750 00 +0.283	0.0000 00 0.000	0.1900 00 0.190
080	0.0000 00 0.000	0.0000 00 0.000	0.1900 00 -0.750
082	0.0000 00 0.000	-0.0000 00 -0.000	0.0000 00 0.000
084	0.0000 00 +0.000	-0.0000 00 -0.000	-0.0000 00 -0.000
086	-0.0000 00 -0.000	0.0000 00 +0.000	0.0000 00 0.000
088	-0.0000 00 -0.000	0.0000 00 0.000	0.0000 00 +0.000

FORMULA DATA OF SP.



TABLE 7  
PEARSON CORRELATIONS

PAIR OF VARIABLES	PEARSON CORRELATIONS	T-STATISTICS	DEGREES OF FREEDOM	LEVEL OF SIGNIFICANCE (%)
V5-V17	0.4629	2.558	25	1
V5-V19	0.3243	1.680	25	10
V5-V20	0.2303	1.135	24	20
V5-V21	0.3626	1.817	24	5
V5-V22	0.4166	2.019	24	5
V5-V23	0.2626	1.305	24	20
V5-V24	0.0898	0.433	24	50
V5-V25	-0.1852	-0.923	25	30
V5-V26	0.2160	1.084	25	20
V5-V27	0.0976	0.480	25	50
V5-V28	0.3493	1.826	25	5
V5-V29	0.1809	0.901	25	30
V14-V19	0.0836	0.394	23	50
V15-V19	0.3296	1.638	23	10
V16-V19	0.1943	0.929	23	30
V17-V19	0.8563	8.124	25	0.1
V17-V20	0.2942	1.476	24	10
V17-V21	0.0830	0.387	24	50
V17-V22	0.1334	0.557	24	50
V17-V23	-0.1991	-0.974	24	30
V17-V24	0.1442	0.699	24	40
V17-V25	-0.2000	-1.000	25	30
V17-V26	-0.2000	-1.000	25	30
V17-V27	0.1581	0.784	25	40
V17-V28	0.2425	1.225	25	20
V19-V20	0.2632	1.308	24	20
V19-V21	0.1581	0.784	24	40
V19-V22	0.0760	0.380	24	50
V19-V23	-0.2626	-1.305	24	20
V19-V24	0.2557	1.268	24	20
V19-V25	0.1713	0.852	25	40
V19-V26	-0.2335	-1.177	25	20
V19-V27	0.1231	0.608	25	50
V19-V28	0.3587	1.883	25	5
V19-V29	0.0664	0.326	25	50
V41-V5	-0.0120	-0.059	25	50
V41-V14	0.0861	0.405	23	50
V41-V15	-0.2604	-1.265	23	20
V41-V16	-0.0667	-0.313	23	50
V41-V17	-0.0778	-0.383	25	50
V41-V19	-0.2121	-1.063	25	20
V41-V20	-0.0987	-0.476	24	50
V41-V21	-0.0403	-0.193	24	50
V41-V22	-0.0794	-0.382	24	50
V41-V23	-0.2557	-1.268	24	20

PAIR OF VARIABLES	PEARSON CORRELATIONS	T-STATISTICS	DEGREES OF FREEDOM	LEVEL OF SIGNIFICANCE (%)
V41-V24	-0.2557	-1.268	24	20
V41-V25	-0.1713	-0.852	25	40
V41-V26	-0.1713	-0.857	25	40
V41-V27	0.1969	0.984	25	30
V41-V28	-0.0315	-0.154	25	50
V41-V29	-0.2822	-1.441	25	10
V61-V5	-0.1157	-0.571	25	50
V61-V14	0.2750	1.342	23	20
V61-V15	-0.3950	-2.016	23	5
V61-V16	0.2604	1.265	23	20
V61-V19	-0.1038	-0.511	25	50
V61-V20	-0.1400	-0.678	24	50
V61-V21	-0.1280	-0.622	24	50
V61-V22	0.0106	0.051	24	50
V61-V23	-0.2647	-1.316	24	20
V61-V24	0.1029	0.496	24	50
V61-V25	-0.1333	-0.659	25	50
V61-V26	-0.1333	-0.659	25	50
V61-V27	0.1845	0.919	25	30
V61-V28	0.1347	0.666	25	50
V61-V29	-0.1777	-0.884	25	30
V71-V5	-0.1543	-0.765	25	40
V71-V15	-0.2750	-1.342	23	10
V71-V16	0.0861	0.405	23	50
V71-V17	-0.0769	-0.378	25	50
V71-19	-0.2335	-1.177	25	20
V71-V20	-0.1307	-0.632	24	50
V71-V21	0.0801	0.385	24	50
V71-V22	0.1084	0.523	24	50
V71-V23	-0.1442	-0.699	24	40
V71-V24	-0.3158	-1.596	24	10
V71-V25	-0.2000	-1.000	25	30
V71-V26	-0.2000	-1.000	25	30
V71-V28	-0.0808	-0.397	25	50
V71-V29	-0.2132	-1.069	25	20
V81-V5	0.4085	2.192	25	2
V81-V15	0.1588	0.754	23	40
V81-V16	-0.0497	-0.233	23	50
V81-V17	-0.1826	-0.910	25	30
V81-V19	-0.2701	-1.374	25	10
V81-V20	-0.1147	-0.554	24	50
V81-V21	0.1873	0.915	24	30
V81-V22	0.0807	0.383	24	50
V81-V23	0.1847	0.915	24	30
V81-V24	-0.4176	-2.016	24	2
V81-V25	0.1525	0.754	25	50
V81-V26	0.3651	1.819	25	5
V81-V27	-0.1299	-0.571	25	50
V81-V28	-0.1771	-0.884	25	30

PAIR OF VARIABLES	PEARSON CORRELATIONS	T-STATISTICS	DEGREES OF FREEDOM	LEVEL OF SIGNIFICANCE (%)
V81-V29	-0.0195	-0.095	25	50
V91-V5	0.2186	1.097	25	30
V91-V14	-0.0917	-0.432	23	50
V91-V15	0.0084	0.039	23	50
V91-V16	-0.3077	-1.517	23	10
V91-V19	0.0649	0.318	25	50
V91-V20	0.0350	0.168	24	50
V91-V21	-0.3430	-1.751	24	5
V91-V22	0.0106	0.051	24	50
V91-V23	-0.0809	-0.389	24	50
V91-V24	0.1029	0.496	24	50
V91-V25	-0.1333	-0.659	25	50
V91-V26	-0.1333	-0.659	25	50
V91-V27	-0.1581	-0.784	25	40
V91-V28	-0.2156	-1.082	25	20
V91-V29	-0.1777	-0.884	25	30

APPENDIX D  
DISCRIMINANT ANALYSIS

Discriminant analysis has been performed to statistically distinguish between the following groups.

- (1) Group of companies which use computer in the operations of the company with the group of companies which do not use.
- (2) Group of companies which classify costs as variable and fixed costs in the cost accounting systems with the group of companies which do not classify.
- (3) Group of companies which apply variable cost accounting method in financial internal reporting with the group of companies which do not apply.

For the purpose of the research, the following variables are selected as discriminating variables.

- (1) The usage of computer in the operations of the company (V5).
- (2) The classification of costs as variable and fixed costs in the cost accounting systems (V17).
- (3) The application of variable cost accounting method in financial internal reporting (V19).
- (4) The usefulness of balance sheet and income statement in long term planning (V20).
- (5) The usefulness of balance sheet and income statement in short term planning (V21).
- (6) The usefulness of balance sheet and income statement in pricing decisions (V22).

- (7) The usefulness of balance sheet and income statement in purchasing decisions (V23).
- (8) The usefulness of balance sheet and income statement in investment decisions (V24).
- (9) The usage of balance sheet in evaluating the operations of the company (V25).
- (10) The usage of income statement in evaluating the operations of the company (V26).
- (11) The usage of sources and uses statement in evaluating the operations of the company (V27).
- (12) The usage of ratio analysis in evaluating the operations of the company (V28).
- (13) The usage of monthly budget compared reports in evaluating the operations of the company (V29).
- (14) The performance in profit over assets ratio (V41).
- (15) The performance in profit over capital stock ratio (V61).
- (16) The performance in profit over sales ratio (V71).
- (17) The performance in sales over assets ratio (V81).
- (18) The performance in sales over capital stock ratio (V91).

Through the interpretation of discriminant analysis, the discriminant functions have been statistically significant and the selected discriminating variables have been reliable.

The first group of analysis, where groups of those companies which use computer in the operation of the company versus those which do not use, has a one per cent probability

of occurring due to chances of sampling. Clearly the discriminant function of this analysis is statistically significant. The second group of analysis, where groups of those companies which classify costs of variable and fixed versus which do not classify, and the third analysis, where groups of those companies which apply variable costing in internal reporting versus which do not apply, have nearly 0 probability of occurring due to chances of sampling.

The results of discriminant analysis are shown in Table 8 and Table 9.

TABLE 8  
DISCRIMINANT ANALYSIS

	CANONICAL CORRELATIONS	WILKS' LAMBDA	CHI-SQUARE	SIGNIFICANCE
Analysis 1	0,95	0,10	33.266	0,0104
Analysis 2	0,97	0,05	43.158	0,0005
Analysis 3	0,98	0,04	45.427	0,0002



TABLE 9

## STANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

ANALYSIS	VARIABLE	COEFFICIENTS	CONTRIBUTION RANK
ANALYSIS 1	V17	2,57	2
	V19	-2,71	1
	V20	2,20	4
	V21	1,37	7
	V22	-0,54	14
	V23	-0,31	16
	V24	-1,09	9
	V25	0,84	10
	V26	-0,22	17
	V27	1,74	6
	V28	2,35	3
	V29	-0,64	13
	V41	-0,80	12
	V61	-0,81	11
	V71	0,51	15
V81	1,24	8	
V91	2,10	5	
ANALYSIS 2	V5	-1,78	4
	V19	-2,35	1
	V20	1,17	7
	V21	1,12	8
	V22	-0,94	11
	V23	-0,48	14
	V24	-0,73	12
	V25	1,83	3
	V26	0,21	16
	V27	1,55	6
	V28	1,58	5
	V29	-0,07	17
	V41	-0,69	13
	V61	-1,09	9
	V71	1,05	10
V81	0,46	15	
V91	2,23	2	
ANALYSIS 3	V5	-1,73	6
	V17	2,17	1
	V20	1,65	7
	V21	1,10	10
	V22	0,76	14
	V23	-0,81	12
	V24	1,20	8
	V25	1,79	5
V26	1,33	16	

ANALYSIS	VARIABLE	COEFFICIENTS	CONTRIBUTION RANK
	V27	1,80	4
	V28	1,97	3
	V29	-0,23	17
	V41	-1,12	9
	V61	-0,85	11
	V71	0,77	13
	V81	0,58	15
	V91	2,12	2

**DISCRIMINANT ANALYSIS****FIRST ANALYSIS**

OPERATING SYSTEM = NGS 2.4.1 630/528. 35/04/03. PRINTED = 26/06/24. 11.56.24.

UJM = AUBI FAMILY = UNIST JOB ORIGIN = INTERACTIVE.  
 CREATING JSN = ACNP USER NAME = AYDINL SERVICE CLASS = INTERACTIVE.

AAAAA	UU	UU	00000	0	IIIIIIIIII	AAAAA	CCCCCCCC	PPPPPPPP	NN	NN					
AAAAFAAAAA	UU	UU	00000000		IIIIIIIIII	AAAAA	CCCCCCCC	PPPPPPPP	NN	NN					
AA	AA	UU	UU	00	00	II	AA	AA	CC	CC	PP	PP	NNN	NN	
AA	AA	JU	UU	00	0	00	II	AA	AA	CC	CC	PP	PP	NN	NN
AA	AA	UU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	JU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	UU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AAAAA	UU	UU	00	0	00	II	AAAAA	CCCC			PPPPPPPP	NN	NN	NN	
AAAAFAAAAA	UU	UU	00	0	00	II	AAAAA	CCCC			PPPPPPPP	NN	NN	NN	
AA	AA	JU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	UU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	JU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	UU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	JU	UU	00	0	00	II	AA	AA	CC		PP	PP	NN	NN
AA	AA	UU	UU	000	00		II	AA	AA	CC	CC	PP	PP	NN	NN
AA	AA	UUUUUUUUUU	UUUUUUUUUU	00000000		IIIIIIIIII	AA	AA	CCCCCCCC	CCCC	PP	PP	NN	NN	
AA	AA	UUUUUUUUUU	UUUUUUUUUU	0	00000	IIIIIIIIII	AA	AA	CCCCCCCC	CCCC	PP	PP	NN	NN	

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SPSS INC LICENSE NUMBER: 19223

NEW FEATURES IN SPSS-X RELEASE 2

FOR MORE DETAILS, USE THE COMMAND: INFO OVERVIEW FACILITIES.

- PLOT - SCATTER PLOTS, OVERLAY PLOTS, CONTOUR PLOTS ON THE PRINTER.
- MILOGLINEAR - FAST LOGLINEAR ANALYSIS FOR HIERARCHICAL MODELS.
- CLUSTER - HIERARCHICAL CLUSTER ANALYSIS.
- QUICK CLUSTER - FAST CLUSTER ANALYSIS FOR A FIXED NUMBER OF CLUSTERS.
- IMPORT/EXPORT - PORTABLE SYSTEM FILES FOR TRANSFER TO OTHER KINDS OF COMPUTERS.
- PROBIT - BICHOTOMOUS PROBIT AND LOGISTIC REGRESSION ANALYSIS.
- SET WIDTH - WIDTH CONTROL FOR PRINTED OUTPUT.
- XSAVE - ALLOWS NEW FLEXIBILITY IN SAVING SYSTEM FILES.
- END SUBCOMMAND - WITH DATA LIST, YOU CAN DETECT END OF FILE.

```

1 1      SUBTITLE *** DR IREM NUMOGLU PROGRAM 61 ***
2 1      DATA LIST RECORDS =1 FIXED
3 3      /CODE,V17,V19,V20,V21,V22,V23,V24,
4 3      V25,V26,V27,V28,V29,V41,V61,V71,
5 3      V81,V91(F2.0,17F1.0)
    
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THE ABOVE DATA LIST STATEMENT WILL READ 1 RECORDS FROM FILE INLINE .

VARIABLE	REC	START	END	FORMAT	WIDTH	DEC
CODE	1	1	2	F	2	C
V17	1	3	3	F	1	C
V19	1	4	4	F	1	C
V20	1	5	5	F	1	C
V21	1	6	6	F	1	C
V22	1	7	7	F	1	C
V23	1	8	8	F	1	C
V24	1	9	9	F	1	C
V25	1	10	10	F	1	C
V26	1	11	11	F	1	C
V27	1	12	12	F	1	C
V28	1	13	13	F	1	C
V29	1	14	14	F	1	C
V41	1	15	15	F	1	C
V61	1	16	16	F	1	C
V71	1	17	17	F	1	C
V81	1	18	18	F	1	C
V91	1	19	19	F	1	C

END OF DATA LIST TABLE.

CODE	V71
1	.73571
2	.54545
TOTAL	.66000

STANDARD DEVIATIONS

CODE	V17	V19	V20	V21	V22	V23	V24	V25
1	.46631	.51355	.51357	.26725	0.00000	.51355	.49725	.26725
2	.46710	.46710	.46710	.50452	.46710	.40452	.46710	.46710
TOTAL	.50990	.50662	.50000	.40025	.35166	.47610	.47610	.20000

CODE	V26	V27	V28	V29	V41	V51	V71	V21
1	0.00000	.51355	.51357	.42582	.51355	.49725	.51355	.26725
2	.30151	.46710	.40452	.30151	.52223	.46710	.52223	.52223
TOTAL	.20000	.43990	.46990	.37417	.50662	.47610	.50990	.43589

CODE	V71
1	.42582
2	.52223
TOTAL	.47610

WITHIN-GROUPS COVARIANCE MATRIX WITH

23 DEGREES OF FREEDOM

	V17	V19	V20	V21	V22	V23	V24	V25
V17	.2195853							
V19	.1942405	.2439300						
V20	.5158340E-01	.5138340E-01	.2470356					
V21	-.5194805E-01	-.5815923E-01	-.6126432E-01	.1510446				
V22	-.7905135E-02	-.7905135E-02	-.7905135E-02	.3952569E-01	.9486160E-01			
V23	-.7951604E-01	-.8532722E-01	.6324111E-01	.5025409E-01	.2371542E-01	.2202146		
V24	.2653868E-01	.5759452E-01	.7312253E-01	-.2399774E-01	-.7905135E-02	.1555167E-01	.2346132	
V25	-.1242236E-01	.2434472E-01	.2173913E-01	-.3105590E-02	0.	.1863354E-01	.1552795E-01	.4677267E-01
V26	-.3152055E-01	-.3162055E-01	-.3162055E-01	.2765798E-01	.3162055E-01	.7905138E-02	-.3162055E-01	0.
V27	.3396104E-01	-.3274966E-01	-.3557312E-01	-.2039215E-01	.3557312E-01	-.4856014E-01	.8805048E-01	-.2494472E-01

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 \*\*\* DR IREM NUHOGLU PROGRAM 61 \*\*\*

	V17	V19	V20	V21	V22	V23	V24	V25
V26	.1776285E-01	.6324111E-01	-.3893231E-01	.5355968E-01	-.2371542E-01	-.1531025E-01	.8498024E-01	.2175913E-01
V29	-.1806289E-01	.5646527E-03	.5355968E-01	.2512705E-01	.1185771E-01	.6062902E-01	.7199522E-01	.9516770E-02
V41	-.1324562E-01	-.5251270E-01	-.2766798E-01	-.1072340E-01	-.1581028E-01	-.6090437E-01	-.0493506E-01	-.1060304E-01
V61	.1693958E-01	-.1411632E-01	-.2964427E-01	-.1943052E-01	.7905138E-02	-.5702993E-01	.2625635E-01	-.1552795E-01
V71	.3317915E-02	-.4030152E-01	-.2766798E-01	.2553368E-01	.2766798E-01	-.2679729E-01	-.7755745E-01	-.2434472E-01
	-.3358861E-01	-.3977979E-01	-.4940711E-01	.4759548E-02	-.1581028E-01	.1466097E-01	-.9909050E-01	-.3105590E-02
	-.2145680E-01	.3387916E-02	-.5923554E-02	-.5336315E-01	-.1581028E-01	-.3500847E-01	.1891587E-01	-.9516770E-02

	V26	V27	V28	V29	V41	V61	V71	V81
V26	.3952569E-01							
V27	.1135771E-01	.2439300						
V28	.7905138E-02	.6324111E-01	.2233202					
V29	.3952569E-02	.1919819E-01	.5731225E-01	.1420102				
V41	-.1975285E-01	.4065508E-01	-.3952569E-02	-.5477132E-01	.2676454			
V61	-.1135771E-01	.4178430E-01	.4545455E-01	-.2351496E-01	.1518910	.2346132		
V71	-.1975285E-01	-.9034444E-02	-.3952569E-02	-.3513778E-01	.1809001	.1643139	.2676454	
V81	.2371542E-01	-.5251270E-01	-.6916996E-01	-.1439364E-01	.5646527E-01	.1214003E-01	.5025409E-01	.1589497
V91	-.1975285E-01	-.5372389E-01	-.0916996E-01	-.1924337E-01	-.2428007E-01	.2450239E-01	-.4291561E-01	.2236378E-01

V91  
 .2210615

POOLED WITHIN-GROUPS CORRELATION MATRIX

	V17	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28
V17	1.00000										
V19	.34023	1.00000									
V20	.22037	.20932	1.00000								
V21	-.26557	-.30299	-.31710	1.00000							
V22	-.05433	-.05197	-.05164	.33020	1.00000						
V23	-.30247	-.37031	.27114	.27555	.16492	1.00000					
V24	-.11736	.24075	.30374	-.12743	-.05299	.05962	1.00000				
V25	-.13209	.25936	.21768	-.03977	0.00000	.19762	.15955	1.00000			
V26	-.33930	-.32203	-.32000	.35308	.51640	.06473	-.32830	0.00000	1.00000		
V27	.16354	.13426	-.14491	-.10884	.23335	-.20952	.37057	-.25036	.12070	1.00000	
V28	.05935	.27096	-.37865	.29053	.16294	-.07129	.37120	.22895	.05414	.27776	1.00000
V29	-.10244	-.00303	.23439	.17157	-.10216	.37677	-.39442	.12304	.05270	.10315	.02130
V41	-.06296	-.20552	-.10760	-.05336	-.09922	-.27212	-.25913	-.17926	-.19215	.15911	-.01017
V61	.07472	-.05901	-.12314	-.10343	.05299	-.25090	.11191	-.13955	-.12314	.17406	.19050
V71	.01399	-.18121	-.10760	.13199	-.17364	-.11862	-.30071	-.23901	-.19215	-.00506	-.01017
V81	-.44732	-.45595	-.24933	.03093	-.12370	.07847	-.51310	-.03377	.29920	-.20609	-.00671
V91	-.09750	.01459	-.02537	-.42369	-.10910	-.15807	.03000	-.09362	-.21142	-.20209	-.01131

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 \*\*\* DR IREM YUHOGLU PROGRAM 01 \*\*\*

	V29	V41	V61	V71	V81	V91
V29	1.00000					
V41	-.26394	1.00000				
V61	-.15622	.00613	1.00000			
V71	-.13536	.09831	.05572	1.00000		
V81	-.09584	.27376	.05237	.24365	1.00000	
V91	-.22149	-.09982	.10735	-.17642	.11390	1.00000

CORRELATIONS WHICH CANNOT BE COMPUTED ARE PRINTED AS 99.0.



WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO  
 WITH 1 AND 23 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
V17	.30753	5.422	.0232
V19	.71078	2.253	.1459
V20	.74097	1.283	.2681
V21	.36351	3.432	.0748
V22	.32645	4.830	.0333
V23	.93105	1.703	.2048
V24	.99193	.1671	.6994
V25	.96726	.7735	.3867
V26	.94697	1.283	.2681
V27	.97403	.6133	.4415
V28	.39173	2.793	.1033
V29	.97209	.6003	.4243
V41	.99933	.1553E-01	.9017
V01	.99193	.1671	.6694
V71	.93651	.3144	.5804
V81	.30172	5.083	.0257
91	.93464	1.609	.2174

JUN 66 SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
 \*\*\* DR IREM NUHOGLU PROGRAM 61 \*\*\*

PAGE

COVARIANCE MATRIX FOR GROUP

1.

	V17	V19	V20	V21	V22	V23	V24	V25
V17	.2197802							
V19	.1753242	.2637363						
V20	-.7692308E-01	-.7692308E-01	.2692308					
V21	-.2197802E-01	-.3296703E-01	-.3846154E-01	.7142857E-01				
V22	0.	0.	0.	0.	0.			
V23	-.9390110E-01	-.1096901	.1538462	.3296703E-01	0.	.2637363		
V24	-.4395604E-01	.1093901E-01	.3846154E-01	.2747253E-01	0.	-.1096901E-01	.2472527	
V25	-.2197802E-01	.4395604E-01	.3846154E-01	-.5494505E-02	0.	.3296703E-01	.2747253E-01	.7142857E-01
V26	0.	0.	0.	0.	0.	0.	0.	0.
V27	.5494505E-01	.4395604E-01	-.7692308E-01	-.4395604E-01	0.	-.1978022	.6593407E-01	-.4395604E-01
V28	.7692308E-01	.1538462	-.1153846	.3846154E-01	0.	-.7692308E-01	-.1153846	.3846154E-01
V29	-.1093901E-01	.2197802E-01	.1153846	.1648352E-01	0.	.5494505E-01	.7142857E-01	.1648352E-01
V30	-.2197802E-01	-.4395604E-01	0.	-.3296703E-01	0.	-.1096901	-.6593407E-01	-.3296703E-01
V31	.4395604E-01	-.1093901E-01	-.3846154E-01	.4945055E-01	0.	-.6593407E-01	.6043956E-01	-.2747253E-01
V32	.5494505E-01	-.3296703E-01	0.	.3296703E-01	0.	-.4395604E-01	-.8791209E-01	-.4395604E-01
V33	-.2197802E-01	-.3296703E-01	.3846154E-01	-.5494505E-02	0.	.3296703E-01	-.4945055E-01	-.5494505E-01
V34	-.6593407E-01	-.2197802E-01	-.3846154E-01	-.1648352E-01	0.	.2197802E-01	.5494505E-02	-.1648352E-01
	V26	V27	V28	V29	V30	V31	V32	V33
V26	0.							
V27	0.	.2637363						
V28	0.	.7692308E-01	.2692308					
V29	0.	-.2197802E-01	.3846154E-01	.1813187				
V30	0.	.1233791	0.	-.5494505E-01	.2637363			
V31	0.	.8791209E-01	.1153846	.5494505E-02	.1428571	.2472527		
V32	0.	.3296703E-01	0.	-.2197802E-01	.1978022	.1648352	.2637363	
V33	0.	-.4395604E-01	-.3846154E-01	.1648352E-01	.4395604E-01	-.2747253E-01	.3296703E-01	.7142857E-01
V34	0.	-.5494505E-01	-.3846154E-01	-.2747253E-01	-.5494505E-01	-.2747253E-01	-.1978022	-.5494505E-01

V31

V31 .1813187  
 124 JUL 66 SPSS-X RELEASE 2.0 FROM NORTH-WESTERN UNIVERSITY  
 \*\*\* DR IREM NJHOGLU PROGRAM 61 \*\*\*

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MATRIX FOR GROUP 2.

	V17	V19	V20	V21	V22	V23	V24	V25
V17	.2151813							
V19	.2151813	.2131313						
V20	.2151813	.2131313	.2151813					
V21	-.9090909E-01	-.9090909E-01	-.9090909E-01	.2545455				
V22	-.1313182E-01	-.1313182E-01	-.1313182E-01	.9090909E-01	.2151813			
V23	-.5454545E-01	-.5454545E-01	-.5454545E-01	.7272727E-01	-.5454545E-01	.1536364		
V24	.1151313	.1131213	.1151313	-.9090909E-01	-.1818132E-01	.4545455E-01	.2151813	
V25	0.	0.	0.	0.	0.	0.	0.	0.
V26	-.7272727E-01	-.7272727E-01	-.7272727E-01	.6363636E-01	.7272727E-01	.1536364E-01	-.7272727E-01	0.
V27	.1313182E-01	.1313182E-01	.1818132E-01	.9090909E-02	.8181818E-01	.1454545	.1151813	0.
V28	-.5454545E-01	-.5454545E-01	-.5454545E-01	.7272727E-01	.5454545E-01	.6363636E-01	.4545455E-01	0.
V29	-.2727273E-01	-.2727273E-01	-.2727273E-01	.3636364E-01	.2727273E-01	.8181818E-01	.7272727E-01	0.
V41	-.6363636E-01	-.6363636E-01	-.6363636E-01	.1318182E-01	-.3636364E-01	-.9090909E-02	-.6363636E-01	0.
V61	-.1313182E-01	-.1313182E-01	-.1818132E-01	-.1090909	.1818182E-01	-.4545455E-01	-.1313182E-01	0.
V71	-.6363636E-01	-.6363636E-01	-.6363636E-01	.1818182E-01	.6363636E-01	-.9090909E-02	-.6363636E-01	0.
V81	-.1636364	-.1636364	-.1636364	.1318182E-01	-.3636364E-01	-.9090909E-02	-.1636364	0.
V91	.3636364E-01	.3636364E-01	.3636364E-01	-.1318182	-.3636364E-01	-.1090909	.3636364E-01	0.

  

	V26	V27	V28	V29	V41	V61	V71	V81
V26	.9090909E-01							
V27	.2727273E-01	.2131813						
V28	.1313182E-01	.4545455E-01	.1536364					
V29	.9090909E-02	.7272727E-01	.8181818E-01	.9090909E-01				
V41	-.4545455E-01	-.6363636E-01	-.9090909E-02	-.5454545E-01	.2727273			
V61	-.2727273E-01	-.1818182E-01	-.4545455E-01	-.7272727E-01	.1636364	.2151813		
V71	-.4545455E-01	-.6363636E-01	-.9090909E-02	-.5454545E-01	.1727273	.1636364	.2727273	
V81	.5454545E-01	-.6363636E-01	-.1090909	-.5454545E-01	.7272727E-01	.6363636E-01	.7272727E-01	.2727273
V91	-.4545455E-01	-.6363636E-01	-.1090909	-.5454545E-01	.7272727E-01	.1636364	.7272727E-01	.7272727E-01

V71

TOTAL COVARIANCE MATRIX WITH 24 DEGREES OF FREEDOM

	V17	V19	V20	V21	V22	V23	V24	V25
V17	.2600000							
V19	.2566667	.2500000						
V20	.6666667E-01	-.4166667E-01	.1666667					
V21	-.3333333E-01	.8333333E-02	-.5333333E-01	.1666667				
V22	-.2333333E-01	.7500000E-01	-.6666667E-01	-.1100000	.4000000E-01			
V23	-.4833333E-01	.0166667E-01	.7500000E-01	-.1666667E-01	-.1666667E-02	.2266667		
V24	-.3333333E-01	.1833333E-01	.1666667E-01	-.8333333E-02	-.5000000E-01	.1333333E-01	.4000000E-01	
V25	-.2000000E-01	-.2333333E-01	-.2500000E-01	.3333333E-01	.5600000E-01	.7166667E-01	-.6666667E-01	
V26	.5500000E-01	.3500000E-01	-.8666667E-01	.7500000E-01	.4500000E-01	.5000000E-02	.6833333E-01	
V27	-.3333333E-02	.1600000E-01	.5333333E-01	-.3333333E-01	-.1333333E-01	-.6166667E-01	-.1333333E-01	
V28	-.1166667E-01	-.4833333E-01	-.2500000E-01	-.3333333E-02	-.1333333E-01	-.6166667E-01	-.1333333E-01	
V29	.6666667E-02	.2000000E-01	.3333333E-01	-.2500000E-01	.1666667E-02	-.8000000E-01	.4333333E-01	
V30	-.1000000E-01	-.5333333E-01	-.2333333E-01	.3333333E-01	.1933333E-01	-.3300000E-01	-.7666667E-01	
V31	-.3666667E-01	-.5666667E-01	-.2500000E-01	-.3333333E-01	-.1166667E-01	-.5666667E-01	-.1000000E-01	
V32	-.6666667E-02	.2166667E-01	.8333333E-02	-.6666667E-01	.1666667E-02	-.1833333E-01	-.1333333E-01	
V33	.4003300E-01	.2400000	-.2400000	.1400000	-.2566667	.2266667		
V34	.1500000E-01	.2333333E-01	-.4000000E-01	-.3000000E-01	.1450000	.1600000		
V35	.6666667E-02	.3666667E-01	.3666667E-01	-.3633333E-01	.1783333	.2666667		
V36	-.1333333E-01	-.1333333E-01	-.3500000E-01	-.1566667E-02	-.5666667E-01	.3333333E-02	.1900000	
V37	-.2166667E-01	-.3500000E-01	-.3500000E-01	-.3000000E-01	-.2166667E-01	.1633333E-01	.4533333E-01	
V38	-.3166667E-01	-.4666667E-01	-.4666667E-01	-.3000000E-01	-.2166667E-01	.1633333E-01	.4533333E-01	

V31

V31

.2266667

SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY

\*\*\* DR IREM NUHOGLU PROGRAM 31 \*\*\*

124 JUN 88

PAGE 1

----- DISCRIMINANT ANALYSIS -----

ON GROUPS DEFINED BY CODE

ANALYSIS NUMBER 1

DIRECT METHOD: ALL VARIABLES PASSING THE TOLERANCE TEST ARE ENTERED.

MINIMUM TOLERANCE LEVEL..... .00100

CALL THE DISCRIMINANT FUNCTIONS

MAXIMUM NUMBER OF FUNCTIONS..... 1  
 MINIMUM CUMULATIVE PERCENT OF VARIANCE... 100.00  
 MAXIMUM SIGNIFICANCE OF WILKS' LAMBDA.... 1.0000

PRIOR PROBABILITY FOR EACH GROUP IS .50000

CLASSIFICATION FUNCTION COEFFICIENTS  
 (FISHER'S LINEAR DISCRIMINANT FUNCTIONS)

CODE = 1 2

V17	143.1244	133.5002
V19	-123.5330	-91.94055
V20	57.59330	34.00332
V21	73.21578	52.01239
V22	-109.0414	-39.69070
V23	-5.733365	-2.949223
V24	-16.33635	-3.342335
V25	136.0124	102.6039
V26	137.3271	143.6320
V27	74.74162	34.47118
V28	57.37813	33.34361
V29	-11.09161	-1.349561
	-17.43371	-5.603431
	-61.52751	-31.66612
V71	72.20310	73.53933
V51	3.429907	-2.529480
V91	118.9330	72.13677
(CONSTANT)	-237.7429	-109.3352

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 \*\*\* DR IREM NUHOGLU PROGRAM 51 \*\*\*

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STANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

	FUNC 1
V17	2.56544
V19	-2.70852
V20	2.23438
V21	1.37429
V22	-.54153
V23	-.30571
V24	-1.07032
V25	.34286
V26	-.21727
V27	1.73512
V28	2.35369
V29	-.65623
V41	-.79523
V51	-.31136
V71	.50301
V51	1.24096
V91	2.09947

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 \*\*\* DR IREY NUHOSLU PROGRAM 01 \*\*\*

PAGE 1

STRUCTURE MATRIX:

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES  
 VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1
V51	.16655
V17	.16350
V22	.15347
V21	.13031
V26	.11609
V19	.10432
V23	.07113
V91	.03856
V25	.07925
V20	.07925
V25	-.05101
V22	.05674
V27	.05469
V71	-.05916
V24	.03021
V51	-.03021
V41	.00870

UNSTANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

	FUNC 1
V17	5.485935
V19	-5.434327
V20	4.435127
V21	3.536118
V22	-1.756222
V23	-.6514619
V24	-2.252044
V25	4.194619
V26	-1.092635
V27	3.513162
V28	4.930636
V29	-1.688440
V41	-1.539073
V51	-1.074459
V71	.9319615
V31	3.112623
V91	4.465323
(CONSTANT)	-12.20207

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 \*\*\* DR IREM NUHOGLU PROGRAM 31 \*\*\*

PAGE 1

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1
1	2.53874
2	-3.23112

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1	< 14	(TOO FEW CASES TO BE NON-SINGULAR)
2	< 11	(TOO FEW CASES TO BE NON-SINGULAR)
POOLED WITHIN-GROUPS COVARIANCE MATRIX	17	-43.129212

NO TEST CAN BE PERFORMED WITHOUT AT LEAST TWO NON-SINGULAR GROUP COVARIANCE MATRICES.

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 \*\*\* DR IREM NUHOGLU PROGRAM 31 \*\*\*

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CASE SERIAL	MIS VAL	SEL	ACTUAL GROUP	HIGHEST PROBABILITY GROUP P(G/G) P(G/G)	2ND HIGHEST GROUP P(G/G)	DISCRIMINANT SCORES
1			1	1 .4524 1.0000	2 .0000	1.7874
2			1	1 .8511 1.0000	2 .0000	2.3510
3			1	1 .7759 1.0000	2 .0000	2.8235
4			1	1 .5572 1.0000	2 .0000	3.1256
5			1	1 .7759 1.0000	2 .0000	2.8235
6			1	1 .3330 1.0000	2 .0000	3.4020
7			1	1 .4649 1.0000	2 .0000	1.8379
8			1	1 .4561 1.0000	2 .0000	3.2840
9			1	1 .9956 1.0000	2 .0000	2.5442
10			1	1 .8247 1.0000	2 .0000	2.0496
11			1	1 .8434 1.0000	2 .0000	3.0017
12			1	1 .4053 1.0000	2 .0000	1.7073
13			1	1 .0223 .9694	2 .0306	.2527
14			1	1 .0410 1.0000	2 .0000	4.5218
15			2	2 .8499 1.0000	1 .0000	-3.4203
16			2	2 .1324 1.0000	1 .0000	-4.7357
17			2	2 .7276 1.0000	1 .0000	-3.5794
18			2	2 .3715 1.0000	1 .0000	-2.3743
19			2	2 .7171 1.0000	1 .0000	-3.5935
20			2	2 .2094 .9999	1 .0001	-1.9756
21			2	2 .7331 1.0000	1 .0000	-2.8901
22			2	2 .4355 1.0000	1 .0000	-2.4513
23			2	2 .2094 .9999	1 .0001	-1.9756
24			2	2 .4532 1.0000	1 .0000	-3.9729
25			2	2 .1796 1.0000	1 .0000	-4.5731

SYMBOLS USED IN PLOTS

SYMBOL    GROUP    LABEL  
-----

1            1  
2            2

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\*\*\* DR IREMUHOGLU PROGRAM 51 \*\*\*





CLASSIFICATION RESULTS -

ACTUAL GROUP	NO. OF CASES	PREDICTED GROUP MEMBERSHIP	
		1	2
GROUP 1	14	14 100.0P	0 0.0P
GROUP 2	11	0 0.0P	11 100.0P

PERCENT OF "GROUPED" CASES CORRECTLY CLASSIFIED: 100.0P

CLASSIFICATION PROCESSING SUMMARY

25 CASES WERE PROCESSED.  
 0 CASES WERE EXCLUDED FOR MISSING OR OUT-OF-RANGE GROUP CODES.  
 1 CASES HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.  
 25 CASES WERE USED FOR PRINTED OUTPUT.  
 124 JUN 66 SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
 \*\*\* DR IREY NUHOGLU PROGRAM 31 \*\*\*

PAGE 1

PRECEDING TASK REQUIRED 3.59 SECONDS CPU TIME; 39 SECONDS ELAPSED.

11 0 FINISH

11 COMMAND LINES READ.  
 0 ERRORS DETECTED.  
 0 WARNINGS ISSUED.  
 5 SECONDS CPU TIME.  
 53 SECONDS ELAPSED TIME.  
 END OF JOB.

11.57.22.UCLP, 00 P03 0.733KLS.

**DISCRIMINANT ANALYSIS**  
**SECOND ANALYSIS**



SPSS INC LICENSE NUMBER: 19228

NEW FEATURES IN SPSS-X RELEASE 2

FOR MORE DETAILS, USE THE COMMAND: INFO OVERVIEW FACILITIES.

- PICT - SCATTER PLOTS, OVERLAY PLOTS, CONTOUR PLOTS ON THE PRINTER.
- MILOGLINEAR - FAST LOGLINEAR ANALYSIS FOR HIERARCHICAL MODELS.
- CLUSTER - HIERARCHICAL CLUSTER ANALYSIS.
- QUICK CLUSTER - FAST CLUSTER ANALYSIS FOR A FIXED NUMBER OF CLUSTERS.
- IMPORT/EXPORT - PORTABLE SYSTEM FILES FOR TRANSFER TO OTHER KINDS OF COMPUTERS.
- PROBIT - BICHOTOMOUS PROBIT AND LOGISTIC REGRESSION ANALYSIS.
- SET WIDTH - WIDTH CONTROL FOR PRINTED OUTPUT.
- XSAVE - ALLOWS NEW FLEXIBILITY IN SAVING SYSTEM FILES.
- END SUBCOMMAND - WITH DATA LIST, YOU CAN DETECT END OF FILE.

```

1 0          SUBTITLE *** DR IREY NUHJGLU PROGRAM 62 ***
2 0          DATA LIST RECORDS =1 FIXED
3 0          /CODE,V35,V19 TO V29,V41,V61,V71,V31,V91(F2.0,17F1.3)
  
```

THE ABOVE DATA LIST STATEMENT WILL READ 1 RECORDS FROM FILE INLINE

VARIABLE	REC	START	END	FORMAT	WIDTH	DEC
CODE	1	1	2	F	2	0
V35	1	3	3	F	1	0
V19	1	4	4	F	1	0
V20	1	5	5	F	1	0
V21	1	6	5	F	1	0
V22	1	7	7	F	1	0
V23	1	8	8	F	1	0
V24	1	9	9	F	1	0
V25	1	10	10	F	1	0
V26	1	11	11	F	1	0
V27	1	12	12	F	1	0
V28	1	13	13	F	1	0
V29	1	14	14	F	1	0
V41	1	15	15	F	1	0
V61	1	16	16	F	1	0
V71	1	17	17	F	1	0
V31	1	18	18	F	1	0
V91	1	19	19	F	1	0

END OF DATA LIST TABLE.

124 JUN 70 12PM UJH0GLU PROGRAM 52 \*\*\*  
SPECIMEN RELEASED FROM NORTHEASTERN UNIVERSITY  
BEIN DATA  
\*\*\* DR 12PM UJH0GLU PROGRAM 52 \*\*\* PAGE

PRECEDING TASK REQUIRED .25 SECONDS CPU TIME/ 4 SECONDS ELAPSED.  
1 J DESIGNATION GROUP=CODE(12)/AFIAD=ES=V05,V19 TO V29,V41,V51,V71/  
2 J /31/V01/ANALYSIS=V05,V19 TO V29,V41,V61,V71,V81  
3 J /V01/METHOD=DIRECT/  
4 J STATISTICS ALL

2212 WORDS OF WORKSPACE AVAILABLE.  
5070 WORDS ARE USED TO SATISFY MAXIMUM WORKSPACE REQUESTS.

THIS DESIGNATION ANALYSIS REQUIRES 1350 WORDS OF WORKSPACE.  
124 JUN 70 SPECIMEN RELEASED FROM NORTHEASTERN UNIVERSITY  
\*\*\* DR 12PM UJH0GLU PROGRAM 52 \*\*\* PAGE

----- DISCRIMINANT ANALYSIS -----

04 GROUPS DEFINED BY CODE

25 (UNWEIGHTED) CASES WERE PROCESSED.  
 1 OF THESE WERE EXCLUDED FROM THE ANALYSIS.  
 1 HAD MISSING OR OUT-OF-RANGE GROUP CODES.  
 1 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.  
 25 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

CODE	NUMBER OF CASES		LABEL
	UNWEIGHTED	WEIGHTED	
1	12	12.0	
2	12	12.0	
TOTAL	25	25.0	

GROUP MEANS

CODE	V05	V19	V20	V21	V22	V23	V24	V25
1	.75000	.34515	.53546	.76923	.92308	.23577	.33452	.92375
2	.33333	.33800	.25000	.53333	.33333	.41667	.25000	1.00000
TOTAL	.55000	.44000	.40000	.60000	.63000	.32000	.32000	.96000

CODE	V26	V27	V28	V29	V41	V61	V71	V81
1	.92308	.46154	.46154	.15385	.53846	.59231	.46154	.59231
2	1.00000	.25000	.25000	.16667	.58333	.66667	.50000	.53333
TOTAL	.95000	.36000	.36000	.16000	.56000	.66000	.48000	.76000

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 \*\*\* OR OPEN NH0GLU PROGRAM 32 \*\*\*

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----- DISCRIMINANT ANALYSIS -----

ON GROUPS DEFINED BY CODE

25 (UNWEIGHTED) CASES WERE PROCESSED.  
 1 OF THESE WERE EXCLUDED FROM THE ANALYSIS.  
 1 HAD MISSING OR OUT-OF-RANGE GROUP CODES.  
 1 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.  
 25 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

CODE	NUMBER OF CASES UNWEIGHTED	WEIGHTED	LABEL
1	12	12.0	
2	12	12.0	
TOTAL	25	25.0	

GROUP MEANS

CODE	V20	V19	V20	V21	V22	V23	V24	V25
1	.75728	.34515	.53546	.76923	.92338	.23577	.33452	.92375
2	.53333	1.00000	.25000	.53333	.33333	.41667	.25000	1.00000
TOTAL	.55700	.44000	.40000	.50000	.59000	.32000	.32000	.96000

CODE	V26	V27	V28	V29	V41	V61	V71	V31
1	.92338	.46154	.46154	.15385	.53846	.59231	.46154	.59231
2	1.00000	.25000	.25000	.16667	.53333	.66557	.50000	.53333
TOTAL	.95000	.36000	.36000	.16000	.55000	.68000	.48000	.75000

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 \*\*\* DR IREN NJHDGLU PROGRAM 12 \*\*\*

CODE	V41
1	.59231
2	.66557
TOTAL	.65700



GROUP STANDARD DEVIATIONS

CODE	V20	V17	V23	V21	V22	V23	V24	V25
1	.43353	.37553	.51657	.43653	.27735	.45653	.50657	.47733
2	.49237	.30000	.52227	.36925	.35925	.51493	.45227	.30000
TOTAL	.39652	.52562	.53900	.40325	.33156	.47510	.47610	.42000

  

CODE	V26	V27	V28	V29	V31	V31	V31
1	.27735	.31307	.51657	.37353	.51627	.45336	.45336
2	.30000	.49237	.52227	.36925	.51493	.49237	.52223
TOTAL	.20000	.46990	.46990	.37417	.50652	.47510	.50790

CODE V31

1	.46936
2	.49237
TOTAL	.47510

POOLED WITHIN-GROUPS COVARIANCE MATRIX WITH 23 DEGREES OF FREEDOM

	V05	V19	V20	V21	V22	V23	V24	V25
V05	.2152795							
V19	-.2006639E-01	.7357360E-01						
V20	.2675535E-01	.3344482E-02	.2352943					
V21	.5094169E-01	-.2006639E-01	-.3346154E-01	.1727752				
V22	.6243032E-01	-.6588953E-02	.1672241E-02	.6243032E-01	.1125975			
V23	.5337155E-01	-.2541137E-01	.7250935E-01	.6533222E-01	.4626533E-01	.2271459		
V24	.5686953E-02	.3344482E-01	.5772575E-01	-.1505017E-01	-.5015722E-02	.2591773E-01	.2316354	
V25	-.1003344E-01	.0678930E-01	.2341137E-01	-.1093344E-01	-.3344482E-02	.1093344E-01	.1672241E-01	.4013378E-01
V26	.3344482E-01	-.6588953E-02	-.2006639E-01	.3344482E-01	.4013378E-01	.1093344E-01	-.2675535E-01	-.3344482E-02
V27	.11572241E-01	-.3344482E-02	-.4254214E-01	-.5015722E-02	.4150502E-01	-.2759197E-01	.3444515E-01	-.2341137E-01

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 \*\*\* OR IRM NWDGDU PROGRAM 32 \*\*\*

	V05	V19	V20	V21	V22	V23	V24	V25
V23	.5020567E-01	.4013378E-01	-.3512040E-01	.2193950E-01	.4180502E-01	.1538629E-01	.3444515E-01	.0025639E-01
V27	.3455754E-01	.1337793E-01	.5157291E-01	.3455754E-01	.2113172E-01	.7413501E-01	.7525534E-01	.6883953E-02
V41	.1226710E-01	-.4013378E-01	-.2257525E-01	-.9475031E-02	-.1282051E-01	-.6561093E-01	-.6279933E-01	-.2095649E-01
V61	-.2554117E-01	-.2575535E-01	-.3573930E-01	-.2554117E-01	.1114827E-02	-.6131598E-01	.2341137E-01	-.1337793E-01
V71	-.2675535E-01	-.4582274E-01	-.3177258E-01	.1572241E-01	.2006639E-01	-.3246154E-01	-.7859532E-01	-.2341137E-01
V81	.1192355	-.2675535E-01	-.1505017E-01	.3232799E-01	.1550758E-01	.3235740E-01	-.5523425E-01	-.1337793E-01
V91	.51572241E-01	.1572241E-01	.5658963E-02	-.6911172E-01	.1114827E-02	-.1723724E-01	.2341137E-01	-.1337793E-01

	V26	V27	V28	V29	V41	V61	V71	V81
V26	.4013378E-01							
V27	.2006639E-01	.2352943						
V28	.2006639E-01	.6535127E-01	.2352943					
V29	.5650958E-02	.2580351E-01	.5650958E-01	.1460424				
V41	-.2006639E-01	.4431438E-01	.5351204E-03	-.5405912E-01	.2672793			
V61	-.1337793E-01	.3573930E-01	.3673930E-01	-.3121516E-01	.1515165	.2353434		
V71	-.2341137E-01	-.1170569E-01	-.1170569E-01	-.4013378E-01	.1856167	.1572241	.2709035	
V81	.3015033E-01	-.2442039E-01	-.2342039E-01	-.2229654E-02	.5741350E-01	.4459309E-02	.3673930E-01	.1925651
V91	-.1337793E-01	-.5016722E-01	-.5016722E-01	-.3121516E-01	-.2229654E-01	.1395206E-01	-.5015722E-01	.4793757E-01

V91  
 V91 .2353434

	V05	V19	V20	V21	V22	V23	V24	V25	V26	V27	V28
V05	1.00000										
V19	-.15907	1.00000									
V20	.11786	.32526	1.00000								
V21	.44434	-.17797	-.13954	1.00000							
V22	.43036	-.07349	.01021	.44757	1.00000						
V23	.39735	-.18129	.39992	.33481	.26929	1.00000					
V24	.32739	.25620	.23829	-.07523	-.33107	.11301	1.00000				
V25	-.10769	-.27700	.23939	-.12042	-.34975	.13509	.17345	1.00000			
V26	.35395	-.12339	-.20520	.40161	.59702	.13509	-.27752	-.26333	1.00000		
V27	.37366	-.02526	-.17595	-.02472	.25522	-.11860	.35947	-.23939	.20520	1.00000	
V28	.26518	.30309	-.36140	.43360	.25522	-.06328	.35947	.20520	.20520	.27012	1.00000
V29	.19446	.12905	.33167	.21755	.16516	.43704	.40916	.03737	.03737	.13446	.35752
V41	.35100	-.23619	-.33945	-.34409	-.37390	-.27034	-.25204	-.19375	-.19375	-.17559	.30331
V61	-.11341	-.20239	-.15502	-.12688	.30683	-.26463	.10000	-.13736	-.13736	.15502	.15502
V71	-.11054	-.33155	-.12505	.37729	.11490	-.15505	-.31377	-.22453	-.22453	-.04607	-.04607
V81	.58406	-.22450	-.37020	.17710	.10591	-.15713	-.40352	-.15206	.34213	-.13261	-.13261
V91	.27120	.12631	.32519	-.34203	.30683	-.07698	.10000	-.13736	-.13736	-.21139	-.21139

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 \*\*\* DR IREM NUMOGLU PROGRAM 32 \*\*\*

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	V29	V41	V61	V71	V81	V91
V29	1.00000					
V41	-.27567	1.00000				
V61	-.16302	.60324	1.00000			
V71	-.20177	.63951	.66038	1.00000		
V81	-.30132	.25237	.32089	.15995	1.00000	
V91	-.15872	-.38671	.30019	-.17526	.22453	1.00000

CORRELATIONS WHICH CANNOT BE COMPUTED ARE PRINTED AS 99.0.

WILKS' LAMBDA (J-STATISTIC) AND UNIVARIATE F-RATIO  
 WITH 1 AND 23 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
V05	.30753	5.462	.0282
V19	.27473	50.72	.0000
V20	.71346	2.179	.1535
V21	.77359	.1434	.7035
V22	.98096	.4463	.5107
V23	.75033	.9493	.3400
V24	.97921	.4582	.4917
V25	.96154	.9200	.3475
V26	.76154	.9200	.3475
V27	.95152	1.172	.2903
V28	.95152	1.172	.2903
V29	.99969	.7023E-02	.9339
V41	.99796	.4701E-01	.6303
V61	.99925	.1736E-01	.6963
V71	.99852	.3407E-01	.5552
V81	.97278	.6435	.4307
V91	.99925	.1736E-01	.6963

COVARIANCE MATRIX FOR GROUP 1.

V05	V19	V20	V21	V22	V23	V24	V25
.1923377							
-.364154E-01	.1419236						
-.1153345	-.6410256E-02	.2692303					
.1029747	-.3346154E-01	-.1153348	.1923077				
-.6410256E-01	-.1282051E-01	-.3346154E-01	-.6410256E-01	.7692305E-01			
-.6410256E-01	-.4487179E-01	.3230128E-01	-.5769231E-01	.1923077E-01			
-.7051282E-01	-.6410256E-01	.1029744	-.7051282E-01	-.5123205E-01			
-.1923377E-01	.7051282E-01	.6457179E-01	-.1923377E-01	-.6410256E-02			
-.6410256E-01	-.1282051E-01	-.3346154E-01	-.3346154E-01	.7692305E-01			
.3230128E-01	-.6410256E-02	-.1923377E-01	-.5123205E-01	.364154E-01			
.1153345	.7692305E-01	-.1029744	.1153346	.364154E-01			
-.3346154E-01	-.2364133E-01	.7692305E-01	-.3346154E-01	.364154E-01			
-.5123205E-01	-.7692305E-01	.1923377E-01	-.3230128E-01	.1282051E-01			
-.6410256E-02	-.5123205E-01	.1282051E-01	.6410256E-02	-.2564103E-01			
-.3230128E-01	-.6974359E-01	-.1923377E-01	.3230128E-01	-.4457179E-01			
.1923377	-.5123205E-01	-.7051282E-01	-.7051282E-01	.5759231E-01			
-.6410256E-02	.3230128E-01	-.7051282E-01	-.7051282E-01	-.2564103E-01			

  

V25	V27	V28	V29	V41	V51	V71	V81
.7692305E-01							
.364154E-01	.2692303						
.364154E-01	.1923377E-01	.2692308					
.1282051E-01	-.6410256E-02	.6974359E-01	.1410256				
-.3346154E-01	.6410256E-01	-.1923377E-01	-.6410256E-02	.2692303			
-.2564103E-01	.7051282E-01	.7051282E-01	.6410256E-02	.9613335E-01			
-.6457179E-01	.1923377E-01	.1923377E-01	.6410256E-02	.2307692			
.5759231E-01	-.1282051E-01	.7051282E-01	.7051282E-01	.1535662		.2692303	
-.2564103E-01	-.1282051E-01	-.1282051E-01	-.3230128E-01	-.1923377E-01		-.7051282E-01	
				-.1923377E-01		-.7613365E-01	
							-.2307692
							SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY
							*** ON IBM MJDGLU PROGRAM **

COVARIANCE MATRIX FOR GROUP

2.

	V05	V19	V23	V21	V22	V23	V24	V25
V05	.2424242							
V19	0.	0.						
V23	.1015112	0.	.2045455					
V21	.6060606E-01	0.	.4545455E-01	.1515152				
V22	.4040404E-01	0.	.4545455E-01	.6060606E-01	.1515152			
V23	.1212121	0.	.1590909	.7575758E-01	.7575758E-01	.2551515		
V24	.9090909E-01	0.	.2272727E-01	.4545455E-01	.4545455E-01	.6818182E-01	.2045455	
V25	0.	0.	0.	0.	0.	0.	0.	0.
V26	0.	0.	0.	0.	0.	0.	0.	0.
V27	0.	0.	-.6818182E-01	.4545455E-01	.4545455E-01	.6818182E-01	.1136364	0.
V28	0.	0.	-.6818182E-01	.4545455E-01	.4545455E-01	-.2272727E-01	.1136364	0.
V29	.3030303E-01	0.	.4545455E-01	.3030303E-01	.3030303E-01	.1060606	.4545455E-01	0.
V41	-.2272727E-01	0.	-.6818182E-01	.1515152E-01	.1515152E-01	-.8333333E-01	-.6818182E-01	0.
V42	-.6060606E-01	0.	-.9090909E-01	-.6060606E-01	.3030303E-01	-.1212121	-.9090909E-01	0.
V43	-.9090909E-01	0.	-.4545455E-01	0.	.9090909E-01	-.4545455E-01	-.1363636	0.
V44	.4040404E-01	0.	.4545455E-01	-.3030303E-01	-.3030303E-01	-.1515152E-01	-.4545455E-01	0.
V45	.1212121	0.	.9090909E-01	-.6060606E-01	.3030303E-01	-.3030303E-01	0.	0.
V26		V27	V28	V29	V41	V51	V71	V31
V26	0.							
V27	0.	.2245455						
V28	0.	.1136364	.2045455					
V29	0.	.4545455E-01	.4545455E-01	.1515152				
V41	0.	.2272727E-01	.2272727E-01	-.1060606	.2551515			
V42	0.	0.	0.	-.1212121	.2121212	.2424242		
V43	0.	-.4545455E-01	-.4545455E-01	-.9090909E-01	.1353535	.1515182	.2727273	
V44	0.	-.4545455E-01	-.1363636	-.6060606E-01	.1515152E-01	.3030303E-01	0.	.1515152
V45	0.	-.9090909E-01	-.9090909E-01	-.3030303E-01	.3030303E-01	.6060606E-01	0.	.1212121

V21

V41 .2424242  
 124 JUN 68 SPSS-Y RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
 \*\*\* DR IRM NJ40GLU PROGRAM 02 \*\*\*

PAGE

TOTAL COVARIANCE MATRIX WITH 24 DEGREES OF FREEDOM

V05	V19	V23	V21	V22	V23	V24	V25
V05	.2356567						
V19	.7446567E-01	.2500000					
V23	.5333333E-01	.1506667					
V21	.5333333E-01	.5333333E-02	.1100000				
V22	.7500000E-01	.7500000E-01	.1656667E-01	.2266667			
V24	.6166667E-01	.1333333E-01	.1333333E-02	.1333333E-01	.4000000E-01		
V25	.1333333E-01	.2333333E-01	.1556667E-01	.1333333E-01	.1333333E-01	.4000000E-01	
V26	.4333333E-01	.4333333E-01	.2500000E-01	.1333333E-01	.1333333E-01	.1333333E-01	.1666667E-02
V27	.8500000E-01	.8500000E-01	.2500000E-01	.1333333E-01	.1333333E-01	.1333333E-01	.1333333E-01
V28	.1156667E-01	.1300000E-01	.2833333E-01	.7500000E-01	.3333333E-01	.7156667E-01	.1333333E-01
V41	.6666667E-01	.4333333E-01	.2500000E-01	.1333333E-01	.1333333E-01	.1333333E-01	.1333333E-01
V61	.1556667E-01	.2000000E-01	.2333333E-01	.1556667E-01	.1333333E-01	.1333333E-01	.1333333E-01
V71	.3333333E-01	.5333333E-01	.3333333E-01	.1333333E-01	.1333333E-01	.1333333E-01	.1333333E-01
V81	.5566667E-01	.2500000E-01	.2500000E-01	.1156667E-01	.3333333E-01	.5666667E-01	.1000000E-01
V91	.5156667E-01	.2166667E-01	.3333333E-02	.1556667E-01	.1333333E-01	.2333333E-01	.1333333E-01
V05	.4000000E-01						
V07	.1500000E-01	.2400000					
V23	.1500000E-01	.7333333E-01					
V27	.5566667E-02	.5333333E-01					
V41	.1333333E-01	.4300000E-01	.1400000	.2556667			
V61	.1333333E-01	.3566667E-01	.3566667E-01	.1450000	.2556667		
V71	.1556667E-01	.1333333E-01	.1753333	.1500000	.1500000	.2600000	.1900000
V81	.3166667E-01	.3500000E-01	.1506667E-02	.5656667E-01	.3333333E-01	.3656667E-01	.4500000E-01
V91	.1333333E-01	.4566667E-01	.3500000E-01	.1556667E-01	.1333333E-01	.4833333E-01	.4500000E-01

V01

DISCRIMINANT ANALYSIS

ON GROUPS DEFINED BY CODE

ANALYSIS NUMBER 1

DIRECT METHOD: ALL VARIABLES PASSING THE TOLERANCE TEST ARE ENTERED.

MINIMUM TOLERANCE LEVEL..... .00100

CANONICAL DISCRIMINANT FUNCTIONS

MAXIMUM NUMBER OF FUNCTIONS..... 1  
MINIMUM CUMULATIVE PERCENT OF VARIANCE..... 100.00  
MAXIMUM SIGNIFICANCE OF WILKS' LAMBDA..... 1.0000

PROB. PROBABILITY FOR EACH GROUP IS .50000

DISCRIMINATION FUNCTION COEFFICIENTS  
(FUNCTIONS LINEAR DISCRIMINANT FUNCTIONS)

GROUP = 1 2

010	-18.04572	-42.07015
011	-20.10366	-31.04555
012	14.15115	34.97032
021	30.26051	50.51269
022	-56.67331	-59.59572
023	5.423210	-2.074923
024	9.553330	-3.072381
025	80.31034	162.00000
026	136.74479	143.0325
027	33.15225	31.47115
028	30.571354	29.34061
029	25.31145	-1.360501
031	2.334453	-3.503461
032	-32.27243	-31.65512
033	50.00429	22.55933
034	-13.19377	-9.527420
035	55.24244	93.15877
(CONSTANT)	-27.13131	-197.4233

124 JUN 50 SP55-X RELEASE 2-0 FROM NORTHWESTERN UNIVERSITY  
\*\*\* OF IREX UNDELJ P00394N 32 \*\*\*

CANONICAL DISCRIMINANT FUNCTIONS

FUNCTION	EIGENVALUE	PERCENT OF VARIANCE	CUMULATIVE PERCENT	CANONICAL CORRELATION	AFTER FUNCTION	WILKS' LAMBDA	CHI-SQUARED	D.F.	SIGNIFICANCE
1	12.4172	100.00	100.00	.9741795	0	.0519742	43.133	17	.0005

\* MARKS THE 1 CANONICAL DISCRIMINANT FUNCTION(S) TO BE USED IN THE REMAINING ANALYSIS.

STANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

FUNC 1

V25	-1.77537
V19	-2.32231
V20	1.16903
V21	1.12155
V22	-.93997
V23	-.68162
V24	-.73236
V27	1.53704
V26	.23924
V27	1.53992
V28	1.57744
V29	-.57455
V30	-.36577
V31	-1.59131
V32	1.32519
V33	-.45712
V34	2.22692

124 JUN 59 5205-A RELEASE 2-3 FROM NORTHWESTERN UNIVERSITY  
 \*\*\* 99 1927 UH30LU PROGRAM 12 \*\*\*



STRUCTURE MATRIX:

ROGLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES  
VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1
V19	-.27524
V35	-.11715
V20	-.07132
V27	-.05231
V22	-.05231
V23	-.04737
V25	.04535
V26	.04655
V31	.03875
V24	.03577
V22	-.03322
V21	-.01582
V41	-.01042
V71	-.00872
V91	-.00637
V51	-.00257
V29	.00495

UNSTANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

	FUNC 1
V15	-3.317565
V1	-5.572331
V11	2.324227
V21	2.995259
V22	-2.200351
V23	-1.010313
V24	-1.521771
V25	2.152223
V26	1.025137
V27	3.177115
V28	2.231449
V29	-1.192272
V31	-1.323413
V35	-2.224772
V71	2.063112
V91	1.045331
V91	4.553727
(CONSTANT)	-2.555724

126 JUN 56 SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
\*\*\* OF IREX UJH05LU PPG05RAN 02 \*\*\*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP      FUNC    1  
 1           -0.37700  
 2           4.53765

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE NAMES AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE OF THE GROUP COVARIANCE MATRICES.

      -SEE-                2444    LOG DETERMINANT  
 2                            < 15    (100 FEW CASES TO BE NON-SINGULAR)  
 3                            < 12    (109 FEW CASES TO BE NON-SINGULAR)  
 POOLED WITHIN-GROUPS                            17    -63.142115  
 COVARIANCE MATRIX

NO TEST CAN BE RUN SINCE WITHOUT AT LEAST TWO NON-SINGULAR GROUP COVARIANCE MATRICES.

124 JUN 66    SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
 \*\*\* ON IBM JH00000 PROGRAM 42 \*\*\*

CASE	100	100	HIGHEST PROBABILITY	HIGHEST	2ND HIGHEST	DISCRIMINANT
NO.	AND	AND	GROUP P(G/S) P(G/S)	GROUP P(G/S)	GROUP P(G/S)	SCORES
1	1	1	.0124 1.0000	2	.0000	-1.4134
2	1	1	.8432 1.0000	2	.0000	-3.7765
3	1	1	.8309 1.0000	2	.0000	-4.1299
4	1	1	.6899 1.0000	1	.0500	-4.6723
5	1	1	.5754 1.0000	2	.0000	-3.4465
6	1	1	.8339 1.0000	2	.0000	-4.1599
7	1	1	.6641 1.0000	2	.0000	-4.3832
8	1	1	.8780 1.0000	2	.0000	-5.0510
9	1	1	.7421 1.0000	2	.0000	-3.8574
10	1	1	.5121 1.0000	2	.0000	-3.7274
11	1	1	.1773 1.0000	2	.0000	-5.3255
12	1	1	.3325 1.0000	2	.0000	-3.1323
13	1	1	.4423 1.0000	2	.0000	-4.7339
14	2	2	.2713 1.0000	1	.0000	3.2027
15	2	2	.3220 1.0000	1	.0000	4.5352
16	2	2	.5225 1.0000	1	.0000	5.2185
17	2	2	.6377 1.0000	1	.0000	3.6345
18	2	2	.6822 1.0000	1	.0000	3.1264
19	2	2	.2542 1.0000	1	.0000	3.1573
20	2	2	.7232 1.0000	1	.0000	4.6519
21	2	2	.1753 1.0000	1	.0000	5.6307
22	2	2	.2820 1.0000	1	.0000	5.3334
23	2	2	.1950 1.0000	1	.0000	5.6307
24	2	2	.9372 1.0000	1	.0000	4.2288
25	2	2	.2705 1.0000	1	.0000	3.2359





**DISCRIMINANT ANALYSIS**

**THIRD ANALYSIS**

SPSS INC LICENSE NUMBER: 19223

NEW FEATURES IN SPSS-X RELEASE 2

FOR MORE DETAILS, USE THE COMMAND: INFO OVERVIEW FACILITIES.

- PLOT - SCATTER PLOTS, OVERLAY PLOTS, CONTOUR PLOTS ON THE PRINTER.
- MILOGLINEAR - FAST LOGLINEAR ANALYSIS FOR HIERARCHICAL MODELS.
- CLUSTER - HIERARCHICAL CLUSTER ANALYSIS.
- CLUSTER - FAST CLUSTER ANALYSIS FOR A FIXED NUMBER OF CLUSTERS.
- EXPORT - PORTABLE SYSTEM FILES FOR TRANSFER TO OTHER KINDS OF COMPUTERS.
- PROBIT - DICHOTOMOUS PROBIT AND LOGISTIC REGRESSION ANALYSIS.
- SET WIDTH - WIDTH CONTROL FOR PRINTED OUTPUT.
- XSAVE - ALLOWS NEW FLEXIBILITY IN SAVING SYSTEM FILES.
- END SUBCOMMAND - WITH DATA LIST, YOU CAN DETECT END OF FILE.

```

1 7      SUBTITLE *** DR IREM N040GLU PROGRAM 33 ***
2 3      DATA LIST RECORDS =1 FIXED
3 7      /CODE,V05,V17,V20,V21,V22,V23,V24
4 3      V25,V26,V27,V28,V29,V41,V01,V71,
5 3      V81,V91.(F2.0,17F1.0)
    
```

THE ABOVE DATA LIST STATEMENT WILL READ 1 RECORDS FROM FILE INLINE .

VARIABLE	REC	START	END	FORMAT	WIDTH	DEC
CODE	1	1	2	F	2	0
V05	1	3	3	F	1	0
V17	1	4	4	F	1	0
V20	1	5	5	F	1	0
V21	1	6	6	F	1	0
V22	1	7	7	F	1	0
V23	1	8	8	F	1	0
V24	1	9	9	F	1	0
V25	1	10	10	F	1	0
V26	1	11	11	F	1	0
V27	1	12	12	F	1	0
V28	1	13	13	F	1	0
V29	1	14	14	F	1	0
V41	1	15	15	F	1	0
V01	1	16	16	F	1	0
V71	1	17	17	F	1	0
V81	1	18	18	F	1	0
V91	1	19	19	F	1	0

END OF DATALIST TABLE.

124 JUN 66 BEGIN DATA  
SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
\*\*\* DR IREX NUMUGLU PROGRAM 63 \*\*\*

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PRECEDING TASK REQUIRED .24 SECONDS CPU TIME? 5 SECONDS ELAPSED.

7 7 DISCRIMINANT GROUPS =CODE(1,2)/VARIABLES =V05,V17,  
8 3 V20 TO V29,V41,V61,V71,V81,V91/  
9 1 ANALYSIS=V05,V17,V20 TO V29,V41,V61,  
10 3 V71,V81,V91/METHOD=DIRECT/  
11 1 STATISTICS ALL

52120 WORDS OF WORKSPACE AVAILABLE.  
5000 WORDS ARE USED TO SATISFY MAXIMUM WORKSPACE REQUESTS.

THIS DISCRIMINANT ANALYSIS REQUIRES 1350 WORDS OF WORKSPACE.  
124 JUN 66 SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
\*\*\* DR IREX NUMUGLU PROGRAM 63 \*\*\*

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----- DISCRIMINANT ANALYSIS -----

04 GROUPS DEFINED BY CODE

25 (UNWEIGHTED) CASES WERE PROCESSED.  
 1 OF THESE WERE EXCLUDED FROM THE ANALYSIS.  
 0 HAD MISSING OR OUT-OF-RANGE GROUP CODES.  
 1 HAD AT LEAST ONE MISSING DISCRIMINATING VARIABLE.  
 25 (UNWEIGHTED) CASES WILL BE USED IN THE ANALYSIS.

NUMBER OF CASES BY GROUP

CODE	NUMBER OF CASES		LABEL
	UNWEIGHTED	WEIGHTED	
1	11	11.0	
2	14	14.0	
TOTAL	25	25.0	

GROUP MEANS

CODE	V05	V17	V20	V21	V22	V23	V24	V25
1	.72727	1.00000	.54545	.72727	.90909	.18182	.45455	1.00000
2	.42857	.14286	.28571	.85714	.85714	.42857	.21429	.28571
TOTAL	.56000	.52000	.40000	.80000	.88000	.32000	.32000	.96000

CODE	V26	V27	V28	V29	V41	V51	V71	V81
1	.90909	.45455	.54545	.18182	.45455	.03030	.30304	.03030
2	1.00000	.28571	.21429	.14286	.64286	.71429	.57143	.05714
TOTAL	.96000	.36000	.36000	.16000	.56000	.68000	.40000	.76000



CODE	V91
1	.72727
2	.64285
TOTAL	.68000

GROUP STANDARD DEVIATIONS

CODE	V05	V17	V20	V21	V22	V23	V24	V25
1	.46710	0.00000	.52223	.46710	.30151	.40452	.52223	0.00000
2	.51355	.36314	.46881	.36314	.36314	.51355	.42582	.26726
TOTAL	.50662	.50990	.50000	.40825	.33164	.47610	.47610	.20000

CODE	V26	V27	V28	V29	V41	V61	V71	V81
1	.30151	.52223	.52223	.40452	.52223	.50452	.50452	.50452
2	0.50000	.46881	.42582	.36314	.49725	.46881	.51355	.36314
TOTAL	.20000	.48990	.48990	.37417	.50662	.47610	.50990	.43333

CODE	V91
1	.46710
2	.49725
TOTAL	.47610

POOLED WITHIN-GROUPS COVARIANCE MATRIX WITH

23 DEGREES OF FREEDOM

	V05	V17	V20	V21	V22	V23	V24	V25
V05	.2439300							
V17	.4763944E-01	.7453416E-01						
V20	.4009034E-01	.1863354E-01	.2428007					
V21	.8365043E-01	.1242236E-01	-.5444332E-01	.1693958				
V22	.6333763E-01	.1242236E-01	.5081875E-02	.6267645E-01	.1140599			
V23	.3582722E-01	.6211180E-02	.9542631E-01	.6098250E-01	.4517222E-01	.2202146		
V24	.3367916E-02	-.1863354E-01	.6154715E-01	-.9034444E-02	-.5021875E-02	.3500647E-01	.2210015	
V25	-.2484472E-01	-.3726708E-01	.1242236E-01	-.6211180E-02	-.0211130E-02	.1863354E-01	.9316770E-02	.4037207E-01
V26	.3162055E-01	0.	-.1976285E-01	.3162055E-01	.3952569E-01	.7905138E-02	-.2371542E-01	0.
V27	.2823264E-01	.1863354E-01	-.3783173E-01	-.2823264E-02	.4460757E-01	-.2710333E-01	.6150999E-01	-.3100590E-01

124 JUN 86 SPSS-X RELEASE 2.0 FROM NORTHWESTERN UNIVERSITY  
 \*\*\* DR IREM NUHOGLU PROGRAM 63 \*\*\*

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	V05	V17	V20	V21	V22	V23	V24	V25
V26	.5372388E-01	-.1863354E-01	-.9260305E-01	.8977979E-01	.4234290E-01	.2710333E-01	.7086692E-01	.9010770E-02
V29	.2992600E-01	-.1242236E-01	.5815923E-01	.3613778E-01	.2032750E-01	.7735743E-01	.7227555E-01	.6211180E-02
V41	.2202145E-01	.3173590E-01	-.1298701E-01	-.1524502E-01	-.1129305E-01	-.7679277E-01	-.5243038E-01	-.1552795E-01
V61	-.1637493E-01	.2434472E-01	-.2936194E-01	-.2579729E-01	.2823264E-02	-.6775833E-01	.2936194E-01	-.1242236E-01
V71	-.1465097E-01	.3726708E-01	-.2032750E-01	.1916375E-01	.2202146E-01	-.5025409E-01	-.0602902E-01	-.1863354E-01
V81	.1202719	.1242236E-01	-.1072640E-01	.2710333E-01	.1524562E-01	.2540937E-01	-.7022012E-01	-.6211180E-02
V91	.5759458E-01	-.1242236E-01	.2823264E-02	-.6662902E-01	.5646527E-03	-.1355157E-01	.1851587E-01	-.1552795E-01

	V26	V27	V28	V29	V41	V61	V71	V81
V28	.3952569E-01							
	.1776285E-01	.2428007						
	.2371542E-01	.6154715E-01	.2210015					
	.7905138E-02	.2253011E-01	.6437041E-01	.1456804				
V41	-.2371542E-01	.5025409E-01	.1496330E-01	-.5194505E-01	.2502280			
V61	-.1531023E-01	.4178430E-01	.4517222E-01	-.3049125E-01	.1473744	.2346095		
V71	-.2766798E-01	-.4517222E-02	.4517222E-02	-.3783173E-01	.1756070	.1620205	.2597403	
V81	.2760793E-01	-.2553263E-01	-.1693958E-01	.5546527E-03	.4799546E-01	-.1129305E-02	.2597403E-01	.1552001
V91	-.1185771E-01	-.5251270E-01	-.5813295E-01	-.3218521E-01	-.1335121E-01	.2059215E-01	-.4573087E-01	.5194805E-01

V91

V91 .2346132

POOLED WITHIN-GROUPS CORRELATION MATRIX

	V05	V17	V20	V21	V22	V23	V24	V25	V26	V27	V28
V05	1.00000										
V17	.36851	1.00000									
V20	.16473	.13851	1.00000								
V21	.43611	.11055	-.16934	1.00000							
V22	.41299	.13473	.03054	.45091	1.00000						
V23	.37031	.04843	.41269	.31574	.28502	1.00000					
V24	.01459	-.14516	.26566	-.04669	-.03200	.15307	1.00000				
V25	-.25036	-.67937	.12547	-.07511	-.09153	.19702	.09062	1.00000			
V26	.32203	0.00000	-.20174	.38644	.58867	-.06473	-.25371	0.00000	1.00000		
V27	.11601	.13851	-.15531	-.31392	.26805	-.11721	.55096	-.31307	.20174	1.00000	
V28	.25289	-.14516	-.39971	.46395	.26570	.12284	.32056	.09802	.25371	.20506	1.00000
V29	.15875	-.11921	.30924	.23004	.15769	.43190	.40275	.08099	.10410	.12009	.05070
V41	.03773	.22381	-.05186	-.07288	-.06579	-.32197	-.21856	-.15205	-.23470	.20066	.06462
V61	-.06641	.18777	-.12295	-.14437	.01725	-.29792	.12885	-.12756	-.16406	.17496	.19823
V71	-.05832	.26784	-.08094	.04845	.12794	-.21013	-.27800	-.18196	-.27007	-.01799	.01030
V81	.50585	.10573	-.05059	.15302	.10489	.12532	-.37673	-.07103	.32030	-.12515	-.00072
V91	.24075	-.09394	.01183	-.33422	.00345	-.05962	.06306	-.15955	-.12314	-.22002	-.04070

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	V29	V41	V61	V71	V81	V91
V29	1.00000					
V41	-.26778	1.00000				
V61	-.16433	.59327	1.00000			
V71	-.19448	.67793	.65837	1.00000		
V81	.00344	.21943	-.00541	.11842	1.00000	
V91	-.17409	-.07454	.05900	-.18528	.24921	1.00000

CORRELATIONS WHICH CANNOT BE COMPUTED ARE PRINTED AS 99.C.

	V29	V41	V61	V71	V81	V91
V29	1.00000					
V41	-.26778	1.00000				
V61	-.16433	.59327	1.00000			
V71	-.19448	.67793	.65837	1.00000		
V81	.00344	.21943	-.00541	.11342	1.00000	
V91	-.17409	-.07454	.08990	-.16528	.24921	1.00000

CORRELATIONS WHICH CANNOT BE COMPUTED ARE PRINTED AS 99.0.

WILKS' LAMBDA (U-STATISTIC) AND UNIVARIATE F-RATIO  
WITH 1 AND 23 DEGREES OF FREEDOM

VARIABLE	WILKS' LAMBDA	F	SIGNIFICANCE
V05	.91376	2.253	.1469
V17	.27473	60.72	.0000
V20	.93074	1.712	.2037
V21	.97403	.6135	.4415
V22	.99370	.1457	.7061
V23	.93105	1.703	.2048
V24	.93464	1.609	.2174
V25	.96726	.7735	.3867
V26	.94697	1.286	.2681
V27	.96952	.7232	.4039
V28	.38271	3.056	.0938
V29	.99722	.64195-01	.4922
V41	.96454	.3456	.3673
V61	.99312	.1592	.6935
V71	.95758	1.024	.3221
V81	.93415	1.621	.2156
V91	.99193	.1571	.6694

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PAGE

COVARIANCE MATRIX FOR GROUP

1

	V05	V17	V20	V21	V22	V23	V24	V25
V05	.2181818							
V17	0.	0.						
V20	-.1363636	0.	.2727273					
V21	.1181818	0.	-.1363636	.2181818				
V22	.7272727E-01	0.	-.4545455E-01	.7272727E-01	.9090909E-01			
V23	.5454545E-01	0.	-.9090909E-02	.5454545E-01	-.1818182E-01	.1636364		
V24	-.6363636E-01	0.	.1272727	-.6363636E-01	-.5454545E-01	.9090909E-02	.2727273	
V25	0.	0.	0.	0.	0.	0.	0.	0.
V26	.7272727E-01	0.	-.4545455E-01	.7272727E-01	.9090909E-01	.1618182E-01	-.5454545E-01	0.
V27	.3636364E-01	0.	.2727273E-01	-.6363636E-01	.4545455E-01	-.9090909E-01	.7272727E-01	0.
V28	.1636364	0.	-.1272727	.1636364	.5454545E-01	.9090909E-01	.2727273E-01	0.
V29	.5454545E-01	0.	.9090909E-01	.5454545E-01	-.1818182E-01	.6363636E-01	.1090909	0.
V41	.3636364E-01	0.	.2727273E-01	-.6363636E-01	-.5454545E-01	-.9090909E-01	-.2727273E-01	0.
V61	-.9090909E-02	0.	.1313132E-01	-.9090909E-02	-.3636364E-01	-.2727273E-01	.1818182	0.
V71	.9090909E-02	0.	-.1818182E-01	.9090909E-02	-.6363636E-01	-.7272727E-01	.1818182E-01	0.
V81	.1909091	0.	-.8181818E-01	.9090909E-01	.6363636E-01	.7272727E-01	-.1181818	0.
V91	.1818182E-01	0.	-.3636364E-01	-.3181818E-01	-.2727273E-01	.5454545E-01	.3636364E-01	0.

  

	V26	V27	V28	V29	V41	V61	V71	V81
V26	.9090909E-01							
V27	.4545455E-01	.2727273						
V28	.5454545E-01	.2727273E-01	.2727273					
V29	.1313132E-01	.9090909E-02	.9090909E-01	.1636364				
V41	-.5454545E-01	.7272727E-01	.2727273E-01	.9090909E-02	.2727273			
V61	-.3636364E-01	.8131313E-01	.1181818	.7272727E-01	.8181818E-01	.2545455		
V71	-.6363636E-01	.1313132E-01	.8181818E-01	.2727273E-01	.2181818	.1454545	.2545455	
V81	.6363636E-01	-.1818182E-01	.1181818	.7272727E-01	.8181818E-01	-.4545455E-01	.4545455E-01	.2545455
V91	-.2727273E-01	-.6363636E-01	-.3636364E-01	-.4545455E-01	-.6363636E-01	-.9090909E-02	-.9090909E-01	-.9090909E-02

V91

COVARIANCE MATRIX FOR GROUP

2.

	V05	V17	V20	V21	V22	V23	V24	V25
V05	.2637363							
V17	.8791209E-01	.1318681						
V20	.1758242	.3296703E-01	.2197802					
V21	.5593407E-01	.2197802E-01	.4395604E-01	.1313681				
V22	.6593407E-01	.2197802E-01	.4395604E-01	.5494505E-01	.1318031			
V23	.1393901	.1098901E-01	.1758242	.6593407E-01	.6593407E-01	.2637363		
V24	.5494505E-01	.3296703E-01	.1098901E-01	.3296703E-01	.3296703E-01	.5494505E-01	.1313187	
V25	-.4395604E-01	-.6593407E-01	.2197802E-01	-.1098901E-01	-.1098901E-01	.3296703E-01	.1648352E-01	.7142857E-01
V26	0.	0.	0.	0.	0.	0.	0.	0.
V27	.2197802E-01	.3296703E-01	-.8791209E-01	.4395604E-01	.4395604E-01	.2197802E-01	.6791209E-01	-.5494505E-01
V28	-.2197802E-01	-.3296703E-01	-.6593407E-01	.3296703E-01	.3296703E-01	-.2197802E-01	.1043956	-.1648352E-01
V29	.1098901E-01	-.2197802E-01	.3296703E-01	.2197802E-01	.2197802E-01	.8791209E-01	.4395604E-01	-.1098901E-01
V41	.1098901E-01	.5494505E-01	-.4395604E-01	.2197802E-01	.2197802E-01	-.6593407E-01	-.7142857E-01	-.2747253E-01
V61	-.2197802E-01	.4395604E-01	-.6593407E-01	-.4395604E-01	.3296703E-01	-.9690110E-01	-.8791209E-01	-.2197802E-01
V71	-.3296703E-01	.6593407E-01	-.2197802E-01	.1098901E-01	.8791209E-01	-.3296703E-01	-.1318031	-.3296703E-01
V81	.6593407E-01	.2197802E-01	.4395604E-01	-.2197802E-01	-.2197802E-01	-.1098901E-01	-.4395604E-01	-.1098901E-01
V91	.8791209E-01	-.2197802E-01	.3296703E-01	-.5494505E-01	.2197802E-01	-.6593407E-01	.5494505E-01	-.2747253E-01

	V26	V27	V28	V29	V41	V61	V71	V81
V26	0.							
V27	0.	.2197802						
V28	0.	.2791209E-01	.1813137					
V29	0.	.3296703E-01	.4395604E-01	.1312661				
V41	0.	.3296703E-01	.5494505E-01	-.9690110E-01	.2472527			
V61	0.	.1098901E-01	-.1098901E-01	-.1098901	.1978022	.2197802		
V71	0.	-.2197802E-01	-.5494505E-01	-.8791209E-01	.1428571	.1758242	.2637363	
V81	0.	-.3296703E-01	-.1268791	-.5494505E-01	.2197802E-01	.3296703E-01	.1098901E-01	.1318031
V91	0.	-.4395604E-01	-.7142857E-01	-.2197802E-01	.1648352E-01	.4395604E-01	-.1098901E-01	.9690110E-01

V91

V91 .2472527  
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 \*\*\* DR IREK NUMOGLU PROGRAM 03 \*\*\*

PAGE

TOTAL COVARIANCE MATRIX WITH

24 DEGREES OF FREEDOM

	V75	V17	V20	V21	V22	V23	V24	V25
V25	.2500007							
V17	.1133333	.2600000						
V20	.5333333E-01	.7500000E-01	.2500000					
V21	.7500000E-01	-.1666667E-01	-.4166667E-01	-.1666667				
V22	.7000000E-01	.2333333E-01	.8333333E-02	.5833333E-01	.1100000			
V23	.6333333E-01	-.4833333E-01	.7500000E-01	.6666667E-01	.4000000E-01	.2266667		
V24	.2166667E-01	.3500000E-01	.7500000E-01	-.1666667E-01	-.1666667E-02	.1833333E-01	.2206667	
V25	-.1333333E-01	-.2000000E-01	.1666667E-01	-.8333333E-02	-.5000000E-02	.1333333E-01	.1333333E-01	-.4000000E-01
V26	.2333333E-01	-.2000000E-01	-.2500000E-01	.3333333E-01	.3666667E-01	.1333333E-01	-.2833333E-01	-.1666667E-02
V27	.4000000E-01	.5500000E-01	-.2500000E-01	-.8333333E-02	.4500000E-01	-.3666667E-01	.8833333E-01	-.2666667E-01
V28	.8166667E-01	.5500000E-01	-.6666667E-01	.7500000E-01	.4500000E-01	.5000000E-02	.8833333E-01	.1500000E-01
V29	.6166667E-01	-.3333333E-02	.5833333E-01	.3333333E-01	.2000000E-01	.7166667E-01	.7166667E-01	.6666667E-02
V30	.6666667E-02	-.1166667E-01	-.2500000E-01	-.8333333E-02	-.1333333E-01	-.6166667E-01	-.0166667E-01	-.1633333E-01
V31	-.2166667E-01	.6666667E-02	-.3333333E-01	-.2500000E-01	.1666667E-02	-.6000000E-01	.2333333E-01	-.1333333E-01
V32	-.3000000E-01	-.1000000E-01	-.3333333E-01	.1666667E-01	.1833333E-01	-.3500000E-01	-.7666667E-01	-.2166667E-01
V33	.9333333E-01	-.3666667E-01	-.2500000E-01	.3333333E-01	.1166667E-01	.3633333E-01	-.6666667E-01	-.1000000E-01
V34	.5166667E-01	.6666667E-02	.8333333E-02	-.6666667E-01	.1666667E-02	-.1833333E-01	.2333333E-01	-.1333333E-01
V26	.4000000E-01							
V27	.7500000E-01	.2400000						
V28	.7333333E-01	.2400000	.2400000					
V29	.6666667E-02	.2333333E-01	.6500000E-01	.1400000				
V30	-.1333333E-01	.4000000E-01	-.1666667E-02	-.5166667E-01	.2566667			
V31	-.1333333E-01	.3666667E-01	.3666667E-01	-.3000000E-01	.1450000	.2266667		
V32	.2166667E-01	-.1333333E-01	-.1333333E-01	-.3333333E-01	.1783333	.1600000	.2600000	
V33	.3166667E-01	-.3500000E-01	-.3500000E-01	-.1666667E-02	.5666667E-01	.3533333E-02	.3666667E-01	.1900000
V34	-.1333333E-01	-.4666667E-01	-.4666667E-01	-.3000000E-01	-.2166667E-01	.1833333E-01	-.4833333E-01	.4500000E-01

V91

----- DISCRIMINANT ANALYSIS -----

ON GROUPS DEFINED BY CODE

ANALYSIS NUMBER 1

DIRECT METHOD: ALL VARIABLES PASSING THE TOLERANCE TEST ARE ENTERED.

MINIMUM TOLERANCE LEVEL..... .00100

CANONICAL DISCRIMINANT FUNCTIONS

MAXIMUM NUMBER OF FUNCTIONS..... 1  
 MINIMUM CUMULATIVE PERCENT OF VARIANCE... 100.00  
 MAXIMUM SIGNIFICANCE OF WILKS' LAMBDA.... 1.0000

PRIOR PROBABILITY FOR EACH GROUP IS .50000

(FUNCTION COEFFICIENTS  
 LINEAR DISCRIMINANT FUNCTIONS)

	1	2
V05	-31.31220	-49.57016
V17	130.3383	103.5032
V20	64.33694	34.00032
V21	76.59246	52.51239
V22	-110.1364	-89.39676
V23	-3.47567	-2.949223
V24	105.422	-3.042385
V25	101.310	162.6039
V26	126.5913	143.6326
V27	87.51672	54.47116
V28	63.19359	30.34061
V29	-6.712337	-1.347561
V41	-28.49130	-3.503481
V61	-67.70294	-51.86812
V71	87.28768	73.53933
V81	2.764256	-9.529480
V91	132.7756	93.13877
(CONSTANT)	-304.1083	-167.5602



FUNCTION	EIGENVALUE	PERCENT OF VARIANCE	CUMULATIVE PERCENT	CANONICAL CORRELATION	BEFORE FUNCTION	AFTER FUNCTION	WILKS' LAMBDA	CHI-SQUARED	D.F.	SIGNIFICANCE
1*	21.93953	100.00	100.00	.9779607	0	.0435926	45.427	17	.0002	

\* MARKS THE 1 CANONICAL DISCRIMINANT FUNCTION(S) TO BE USED IN THE REMAINING ANALYSIS.

STANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

	FUNC 1
V05	-1.72667
V17	2.16693
V20	1.65160
V21	1.10499
V22	-.75523
V23	-.30532
V24	-1.19542
V25	1.79427
V26	-.33479
V27	1.79903
V28	1.76665
V29	-.22615
V41	-1.11683
V47	-.84794
V71	.77416
V51	.53455
V91	2.11655

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 \*\*\* DR IREM NUHOGLU PROGRAM 83 \*\*\*

STRUCTURE MATRIX:

POOLED WITHIN-GROUPS CORRELATIONS BETWEEN CANONICAL DISCRIMINANT FUNCTIONS AND DISCRIMINATING VARIABLES  
 VARIABLES ARE ORDERED BY THE FUNCTION WITH LARGEST CORRELATION AND THE MAGNITUDE OF THAT CORRELATION.

	FUNC 1
V17	.34689
V28	.07782
V15	.06682
V25	.05824
V23	-.05810
V51	-.05668
V24	.05646
V26	-.05052
V71	-.04505
V41	-.04094
V25	.03928
V27	.03786
V21	-.03486
V91	-.01926
V47	-.01776
V22	.01699
V29	-.01128

UNSTANDARDIZED CANONICAL DISCRIMINANT FUNCTION COEFFICIENTS

	FUNC 1
V05	-3.495044
V17	7.937193
V20	3.351811
V21	2.532584
V22	-2.236219
V23	-1.715474
V24	-2.542515
V25	8.929523
V26	-1.063964
V27	3.651111
V28	4.132324
V29	-1.5925135
V41	-2.197351
V61	-1.749546
V71	1.519313
V81	1.353301
V91	4.373642
(CONSTANT)	-14.32280

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 \*\*\* DR IREM NUHOGLU PROGRAM 83 \*\*\*

CANONICAL DISCRIMINANT FUNCTIONS EVALUATED AT GROUP MEANS (GROUP CENTROIDS)

GROUP	FUNC 1
1	5.06846
2	-3.98256

TEST OF EQUALITY OF GROUP COVARIANCE MATRICES USING BOX'S M

THE RANKS AND NATURAL LOGARITHMS OF DETERMINANTS PRINTED ARE THOSE OF THE GROUP COVARIANCE MATRICES.

GROUP LABEL	RANK	LOG DETERMINANT
1	< 11	(TOO FEW CASES TO BE NON-SINGULAR)
2	< 14	(TOO FEW CASES TO BE NON-SINGULAR)
POOLED WITHIN-GROUPS COVARIANCE MATRIX	17	-43.129212

NO TEST CAN BE PERFORMED WITHOUT AT LEAST TWO NON-SINGULAR GROUP COVARIANCE MATRICES.

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 \*\*\* DR IREM NUHOGLU PROGRAM 83 \*\*\*

CASE SERIAL	%S VAL	SEL	ACTUAL GROUP	HIGHEST PROBABILITY GROUP P(D/G) P(S/D)	2ND HIGHEST GROUP P(G/D)	DISCRIMINANT SCORES
1			1	1 .5503 1.0000	2 0.0000	5.6657
2			1	1 .5544 1.0000	2 .0000	4.4773
3			1	1 .5222 1.0000	2 0.0000	5.7057
4			1	1 .8173 1.0000	2 .0000	5.2995
5			1	1 .7820 1.0000	2 .0000	4.7917
6			1	1 .6216 1.0000	2 .0000	4.5749
7			1	1 .8187 1.0000	2 .0000	5.2977
8			1	1 .5105 1.0000	2 0.0000	5.7263
9			1	1 .1271 1.0000	2 .0000	3.5427
10			1	1 .3464 1.0000	2 0.0000	6.0191
11			1	1 .6812 1.0000	2 .0000	4.6534
12			2	2 .1874 1.0000	1 0.0000	-5.3027
13			2	2 .5276 1.0000	1 .0000	-3.3527
14			2	2 .0153 1.0000	1 .0000	-1.6227
15			2	2 .8560 1.0000	1 .0000	-4.1639
16			2	2 .7375 1.0000	1 .0000	-3.6471
17			2	2 .1904 1.0000	1 0.0000	-5.2917
18			2	2 .0747 1.0000	1 0.0000	-5.7645
19			2	2 .2287 1.0000	1 0.0000	-5.1560
20			2	2 .3511 1.0000	1 .0000	-3.0500
21			2	2 .5118 1.0000	1 .0000	-3.3263
22			2	2 .3440 1.0000	1 .0000	-3.0361
23			2	2 .5113 1.0000	1 .0000	-3.3263
24			2	2 .0644 1.0000	1 .0000	-3.8115
25			2	2 .3717 1.0000	1 0.0000	-4.8756

SYMBOLS USED IN PLOTS

SYMBOL GROUP LABEL  
-----

1 1  
2 2





## APPENDIX E

## ANKET

Boğaziçi Üniversitesi

Doktora Tezi

Tarih:

1. NET SATIŞ GELİRİNİZ (1983) aşağıda belirtilen gruplardan hangisine girmektedir?

- 15 Milyar TL'nin üstü
- 10 - 14.9 Milyar TL arası
- 5 - 9.9 Milyar TL arası
- 2 - 4.9 Milyar TL arası
- 2 Milyar TL'nin altı

2. NET BİLANÇO KÂRINIZ (1983) aşağıda belirtilen gruplardan hangisine girmektedir?

- 1 Milyar TL'nin üstü
- 500 - 999 Milyon TL arası
- 250 - 499 Milyon TL arası
- 100 - 249 Milyon TL arası
- 100 Milyon TL'nin altı

3. YATIRIM HARCAMALARINIZ (1983) aşağıda belirtilen gruplardan hangisine girmektedir?

- 10 Milyar TL'nin üstü
- 5 - 9.9 Milyar TL arası
- 1 - 4.9 Milyar TL arası
- 500 - 999 Milyon TL arası
- 100 - 499 Milyon TL arası
- 100 Milyon TL'nin altı

4. ÖZ SERMAYENİZ (1983 ) .....

5. İHRACAT GELİRİNİZ (1983) aşağıda belirtilen gruplardan hangisine girmektedir?

- 20 Milyon \$'ın üstü  
 10 - 19.9 Milyon \$ arası  
 5 - 9.9 Milyon \$ arası  
 1 - 4.9 Milyon \$ arası  
 1 Milyon \$'ın altı

6. Şirketinizde BİLGİSAYAR'dan yararlanıyor musunuz?

- EVET  HAYIR

("HAYIR" ise 12. soruya geçiniz).

7. Kullandığınız bilgisayarın markası ve tipi nedir?  
 (Birden fazla ise hepsinin markası, tipi ve adedi)

.....  
 .....

8. Bilgisayarı şirketinizin hangi bölümünde (veya bölümlerinde) kullanıyorsunuz?

- Genel Müdür  
 Mali ve İdari İşler Bölümü  
 İşletme (Fabrika) Bölümü  
 Planlama Bölümü  
 Diğer (Belirtiniz) .....

- . Yalnız "Genel Müdür"ü işaretlediniz ise, 9. soruya geçiniz ve sonra 11. sorudan devam ediniz.  
 . Yalnız "Mali ve İdari İşler Bölümü"nü işaretlediniz ise, 10. soruya geçiniz ve devam ediniz.  
 . Her ikisini de işaretlediniz ise, 9. soruya geçiniz ve devam ediniz.

9. Genel Müdürlükte kullandığınız bilgisayardan nasıl yararlanıyorsunuz?

.....  
 .....

10. Mali ve İdari İşler Bölümünde kullandığınız bilgisayardan nasıl yararlanıyorsunuz?

.....  
 .....

11. Yönetici olarak karar verirken bilgisayardan ne kadar yararlandığınızı düşünüyorsunuz?

- Her konuda çok yararlı  
 Bazı konularda çok yararlı  
 Bazı konularda kısmen yararlı  
 Hiçbir konuda yararlı değil

12. Yönetici olarak karar verirken bilanço ve kâr/zarar mali raporlarından yararlanıyor musunuz?

- EVET                       HAYIR

("HAYIR" ise 14. soruya geçiniz).

13. Bu raporlar şirketinizde ne sıklıkta hazırlanıyor?

- Haftalık  
 Aylık  
 3 Aylık  
 Yıllık  
 Diğer (Belirtiniz) .....



14. Bu raporların (bilanço ve kâr/zarar) dışında karar vermenize yardımcı olması gayesi ile hangi raporlar hazırlanıyor?

- Fon Akım Tablosu
- Başabaş Analizi
- Oran Analizi
- Diğer (Belirtiniz) .....

15. Bir mamulün maliyetini hesaplarken aşağıda belirtilen masraflardan hangilerini maliyet muhasebe bölümünüz dikkate almaktadır? (Satılan malın maliyeti hesabına giren maliyet unsurları)

- İşçilik masrafları
- Hammadde masrafları
- İşletme malzemesi masrafları
- Aydınlatma ve ısıtma
- Enerji ve su
- Tamir ve bakım
- Fabrika binası amortismanı
- Makina amortismanı
- Fabrika kirası
- İdari personel masrafları
- Ofis malzemesi masrafları
- İdari bina amortismanı
- İdari bina kirası
- Satış personeli masrafları
- Reklam ve tanıtım masrafları
- Finansman masrafları
- Diğer (Belirtiniz) .....

21. Şirketin faaliyetlerini değerlendirirken hangi raporları kullanıyorsunuz?

- Bilanço
- Kâr/zarar
- Fon Akım Tablosu
- Oran Analizi
- Diğer (Belirtiniz) .....

#### ANKETİ DOLDURAN YÖNETİCİ HAKKINDA BİLGİLER

ÜNVANI : .....

YAŞI : .....

CİNSİYETİ : .....

MESLEĞİ : .....

MEZUN OLDUĞU OKUL : .....

TEŞEKKÜR EDERİZ

Not: TAM MALİYET SİSTEMİ:

Üretimde kullanılan hammadde, işçilik ve imalat ile ilgili tüm giderler (Genel İmalat Giderleri) maliyete verilir.

DEĞİŞKEN MALİYET SİSTEMİ:

Değişken giderler maliyete verilir ve tüm sabit giderler dönem gideri kabul edilir.

## BIBLIOGRAPHY

1. Matz, A. and Usry, M.F. Cost Accounting: planning and control. Ohio: Southwestern Publishing Co., 1976, pp.688-692.
2. Uman, Nuri. Standart Mali Tablolar ve Hesap Planları, Türkiye'de Sermaye Piyasası Seminer Tebliğleri, 1984.
3. Türkiye'nin 500 Büyük Kuruluşu, Istanbul Sanayi Odası Journal, 1984.

## REFERENCES NOT CITED

- Anthony, N.Robert. Management Accounting Principles. Illinois: Richard D.Irwing Inc., 1965.
- Bazley, D.John. "An Algebraic Aid in Teaching the Differences between Direct Costing and Full Absorption Costing Models: A comment," The Accounting Review, p.838, October 1974.
- Bierman, Harold. Topics in Cost Accounting and Decisions. New York: McGraw Hill, 1963.
- Böer, Germain. Direct Cost and Contribution Accounting. New York: Wiley-Interscience, 1974.
- Bursal, Nasuhi. Muhasebe-Maliyet Finansal Kontrol Konuları. Istanbul: Sermet Matbaası, 1976.
- Bursk, C.Edward and Chapman, F.John. New Decision Making Tools for Managers. Massachusetts: Harvard University Press, 1963.
- Crowningshield, R.Gerald and Gorman, A.Kenneth. Cost Accounting: Principles and Managerial Applications. Boston: Houghton Mifflin Company, 1979.
- Drebin, R.Allan and Bierman, Harold. Managerial Accounting. Philadelphia: Holt Saunders International Editions, 1978.
- Dudick, S.Thomas. Cost Controls for Industry. New Jersey: Prentice-Hall Inc., 1967.
- Dudick, S.Thomas, "Alternative Costing Methods for Reporting and Planning Purposes," The Journal of Accounting, pp.49-54. October 1969.
- Ertuna, İ.Özer, Maliyet Muhasebesi. İstanbul İktisadi ve İdari Bilimler Üniversitesi İktisadi İstatistik Fakültesi Muhasebe Anabilim Dalı, 1977.

- Fekrat, M.Ali. "The Conceptual Foundations of Absorption Costing," The Accounting Review, pp.351-355, April 1971.
- Fess, E.Philip and Holzer, H.Peter. "The Diverse Functions of Accounting," The Journal of Accounting, pp.49-52, August 1964.
- Findlay, M.Chapman and Williams, E.Edwards. An Integrated Analysis for Managerial Finance. New Jersey: Prentice Hall Inc., 1970.
- Fremgen, M.James, "The Direct Costing Controversy: An Identification of Issues," The Accounting Review, pp.43-51, January 1964.
- Helfert, A.Eric. Techniques of Financial Analysis. Illinois: Richard D.Irwin Inc., 1967.
- Hirschman, W.Robert, "Direct Costing and the Law," The Accounting Review, pp.176-183, January 1965.
- Horngren, T.Charles. Cost Accounting: A Managerial Emphasis. New Delhi: Prentice Hall, 1979.
- Keller, Wayne and Ferrara, L.William. Management Accounting for Profit Control. New York: McGraw Hill, 1966.
- Knight, F.Charles and Campbell, F.Guy, "Direct Costing: An Aid to Profit Planning," Management Review, pp.43-47, March 1969.
- Lindley, Dennis. Making Decisions. London: Wiley-Interscience, 1975.
- Neuner, J.W.John and Deakin, B.Edward. Cost Accounting: Principles and Practice. Illinois: Richard D.Irwin Inc., 1977.

Ricketts, E.Donald and Rurdy, R.Charles, "The Effect of C-V-P Structure on Full and Direct Costing Net Income: A generalized Approach," The Accounting Review, pp.603-607, July 1974.

Shillinglaw, Gordon. Managerial Cost Accounting. Illinois: Richard D.Irwin Inc., 1977.

Solomons, David. "Breakeven Analysis under Absorption Costing," The Accounting Review, pp.447-452, July 1968.

Wright, Wilmer. Direct Standard Costs for Decision Making and Control. New York: McGraw Hill, 1962.