GUARANTEE SCHEMES: AN ALTERNATIVE TO THE SUPERVISED CREDIT PROGRAM

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The Authors

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GUARANTEE SCHEMES: AN ALTERNATIVE

TO THE SUPERVISED CREDIT PROGRAM*

by -

Marife T. Magno and Richard L. Meyer**

I. INTRODUCTION

In response to a perennial problem of inadequate volume of credit going to the so-called "socially-desirable projects", in particular to agriculture and indigenous industries, the government instituted several supervised credit programs (SCPs). More popular among these programs were Masagana 99 (rice) and Maisagana (corn) which were launched in 1972.

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^{*}Paper presented during the ACPC-PIDS-OSU sponsored seminarworkshop on "Financial Intermediation in the Rural Sector: Research Results and Policy Issues" held on 26-27 September 1988 at the Cuaderno Hall, Central Bank of the Philippines. This is part of a larger study on comparative bank analysis jointly conducted by the Agricultural Credit Policy Council (ACPC), Philippine Institute for Development Studies (PIDS) and Ohio State University (OSU). The project was coordinated by Dr. Mario B. Lamberte (PIDS) and Dr. V. Bruce J. Tolentino (ACPC).

To support the SCP's, liberal selective credit policies, such interest rates and cheap rediscounting facilities have a's low been adopted. As noted in various studies (TBAC 1985, Lamberte and Lim 1987), the SCP's were on the whole a failure. These credit subsidies did not reach the targeted clientele but rather led to misallocation of resources, disintermediation, inflation, high loan arrearages and loan failures which made banks more in extending credit to agriculture and indigenous averse industries. Hence, the sector remained as indebted and unbankable as before.

The government embarked on a series of financial reforms starting in 1980. Knowing that the major drawback of the previous credit programs stems from the subsidized interest rates and cheap rediscounting policy, the financial reforms included deregulation of bank interest rates and the alignment of rediscount rates to the market rate. By 1985, the interest rates and rediscount rates were wholly market oriented. In effect, interest rate subsidies to the priority sectors were eliminated.

The relaxation of interest rates, however, did not produce the desired results but has contributed to the reduced flow of loans to the socially desirable projects (TBAC 1985). It seems that the risk and default conditions surrounding agriculture and indigenous industries have not significantly improved, and therefore, any increase in deposits resulting from interest rate liberalization would not necessarily flow into these sectors. Banks are still reluctant to increase their exposures to agriculture as well as the indigenous industries.

To date, the SCPs are blowly being phased out. This does not mean, however, that direct government intervention in the credit market has been eliminated. Government intervention is still considered to be necessary to complement the liberalization policies. In place of the SCPs, risk-reducing programs are being By risk-reducing programs, we refer to the credit emphasized. quarantee programs. These programs are the latest form of intervention in the financial market aimed at relieving the riskburden's faced by financial institutions in lending to the priority sector. In the previous SCPs, funds for on-lending mainly came from the government with financial institutions serving as conduits. Under the risk-reducing program, however, funds for on-lending come from the financial institutions. The government supports them by assuming certain portion of the risk of default.

This paper examines the effectiveness of the credit guarantee programs in increasing the amount of credit that goes to agriculture and indigenous industries. Specifically, the following issues will be addressed: (1) Do guarantee programs lead to <u>additionality</u> in agricultural lending; (2) Do guarantee programs contribute to small loans; (3) Do guarantee programs encourage banks to use their own funds; (4) Do guarantee programs reduce the cost of lending to banks; and (5) How cost effective are the guarantee programs.

The study focuses on the four existing guarantee programs of the government, namely: (1) the Guarantee Fund for Small and

Medium Enterpribeb (GFSME); (2) the Industrial Guarantee and Loan Fund (IGLF); (3) the Quedan Guarantee Program (QGP) and (4) the Crop Insurance Program (CIP).

The paper will be organized as follows: Section II presents the conceptual framework. Here the hypothesis of the study as well as the indicators to test this hypothesis are presented.

Section III describes the special features of each guarantee program. The terms and conditions of loans under the guarantee programs will also be emphasized.

Section's IV and V discuss the overall performance of the guarantee programs. Section IV presents information on how the guarantee funds have been utilized in terms of the type of banking institutions, the nature of investment and loan size. The operational performance of the guarantee institutions/ agencies is also presented. Section V discusses the overall impact of the guarantee programs on the basis of the hypothesis and the indicators presented in Section II.

Sections VI and VII discuss the performance of the guarantee programs in terms of banks' response to and assessment of the programs. Section VI uses primary data from the Comparative Bank Study Survey (1987). Section VII focuses on the case of the GFSME program.

The last two sections present the conclusions of the study and some policy recommendations.

II. CONCEPTUAL FRAMEWORK

Lending institution's usually charge a higher premium for risk for borrower's in the priority sectors of the government than they do for the borrower's in the non-priority sector's. (John'son, 1974, Khatkhate and Villanueva 1978, Lipton 1979, Pischke 1986). This is because the lender's absociate an extra-normal risk to the priority sector. A program such as the credit guarantee scheme, which aims to reduce the perceived risk-prevailing in agriculture and indigenous industries is, therefore perceived as being an effective way to reduce lender risk and increase lending.

The impact of a guarantee program on the supply of credit to the priority sector can be analyzed using a supply-demand model developed by Gonzalez-Vega (1976). The absumptions of the model are: First, the bank's operate under a competitive market. Second, there are only two types of borrower. One type is a risky borrower, in the sense that the bank is not familiar with the borrower or the project the borrower proposes to undertake with a loan. Project's in agriculture and indigenous industries frequently belong to this category. The other type is a less risky borrower, with whom the bank is acquainted with and/or whose projects are well known. Third, the borrowers have an identical demand for credit. This means that the marginal revenue curves of both borrower's are 'similar. The latter absumption ib important to isolate the effects on interest rates of differences in their initial endowment's from that of difference's in the cost Relaxation of this assumption, however, will not of lending. significantly alter the findings since we are dealing here with

elasticities. And fourth, cost of funds and lending costs are identical for both borrowers and differences arise only in the cost associated with default.

The cost of lending is expected to be relatively higher for loans to the risky borrowers than to the less risky borrowers. The difference in cost is due to the higher risk premium associated with the risky borrower. In effect, the marginal cost (MC) curves of loans to the two borrowers differs, where marginal cost curve is steeper for the risky borrower than the less risky one. This means that the additional cost per peso of loan granted is higher for the risky borrower.

The difference in the marginal cost of the two borrowers. would imply different lending interest rates for both. This is because banks are profit-maximizers and therefore would charge an interest rate at the point where MR = MC. In Figure II-1, this is represented by the intersection between the MC curves and the demand curves. The demand curve for the whole banking industry is actually equal to the value of the marginal productivity (VMP) of loans. Hence, the optimizing point is where MC = VMP. And the equilibrium quantity and price for each borrower, considering no interest rate ceilings and liquidity constraints, is L* and r for the risky borrower and L* and r for the less risky 1 2 borrower.

With effective guarantee programs, the risk-burden in the priority sector is reduced and thus, lending rates to risky borrowers decreases which result in an increase going to them.

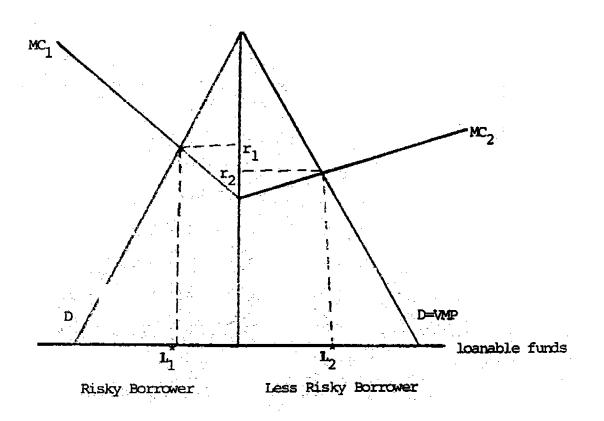


Figure II-1. CREDIT ALLOCATION FOR RISKY BORROWER AND LESS RISKY BORROWER, WITHOUT GUARANTEE

This is because the risk premium which creates the difference between r and r is eliminated. The guarantee shifts the MC of 1 2risky borrowers to MC'. In effect, risky borrowers become competitive with the less risky borrowers. Figure II-2 illustrates the situation. The decrease in MC of risky borrowers increased the amount of loan to L' which is equal to L*. This suggests 2competitiveness of and elimination of bias against the risky borrowers.

Suppose, however, that the lender has a liquidity constraint, such that available loanable funds is only L* plus L* (referred to as \overline{L}). Then banks would allocate \overline{L} such that 2 MC = MC . Since MC is lower than MC , then banks would service lebs risky borrower first before the risky borrower. the This means that with \overline{L} , banks would still charge the interest rates r and r even with a guarantee and thus, there would be no increase in the amount of credit to the risky borrower. To increase the amount of loans to the less risky borrower means L* have to decrease to L'. This is possible if an that interest rate subsidy equal to abc is paid to the bank (see Figure II-3). The interest subsidy decreases the lending cost to the risky borrower and shifts MC to MC'. In effect, loans to the risky borrower increase to L'. This increase is equal to the decrease in loans to the less risky borrower (L* -L'). 2

Decreasing loans to the less risky borrowers is not costless. It should be noted that the less risky borrowers are the bank's prime or regular clients and it would be difficult for

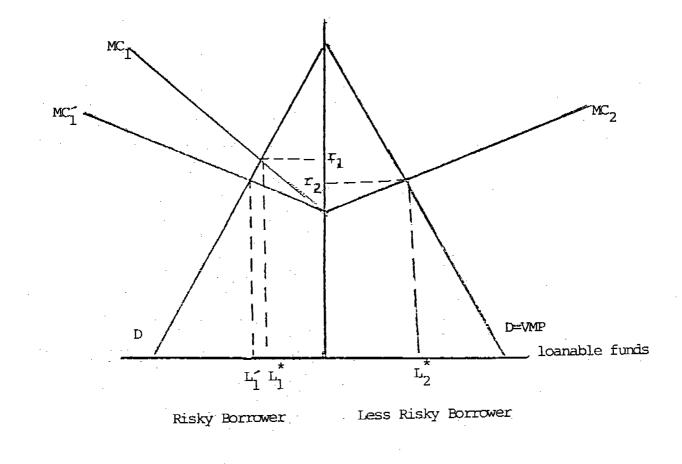


Figure II-2. CREDIT ALLOCATION FOR RISKY BORROWER AND LESS RISKY BORROWER, WITH A GUARANTEE

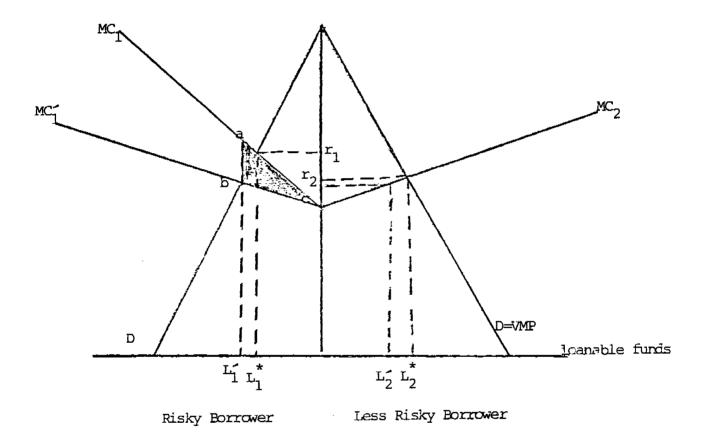


Figure II-3. CREDIT ALLOCATION OF RISKY BORROWER AND LESS RISKY BORROWER WITH LIQUIDITY CONSTRAINT AND WITH GUARANTEE

the bank to turn them down. To maintain long-term relations with clients, it is expected that they would usually service their old clients first before servicing a new client. Under this situation, there may be no increase in loans to risky borrowers even with a guarantee or the amount of subsidy needed would be higher.

The above findings suggest the need for additional loanable funds to fully realize the effect of a guarantee for institutions with liquidity constraint. There are two ways of achieving this: one is through rediscounting or selling of loan papers and the other is through more extensive deposit mobilization.

The effect of rediscounting or selling loan papers is illustrated as Figure II-2. Rediscounting loan papers occurs when banks liquify or secure funds from either the Central Bank or the guarantee programs by "selling" the guaranteed loans. In this case, there maybe an increase in the amount of loans to the risky borrower without a decrease in loans to the less ribky borrower. Hence, less risky borrowers are not adversely affected. And, no subsidy is paid to the bank. The additional funds, however, come mainly from government funds and not the bank's own funds.

On the other hand, if additional funds were met through deposit mobilization (see ACPC 1988), banks would be using their own funds for lending and substitution of bank funds by government funds as well as interest rate subsidy is eliminated. The above implications suggest that a credit

guarantee can be an effective means of increasing credit to the priority sector under an effective deposit mobilization scheme. In a nutshell, deposit mobilization would be a by-product of an effective guarantee scheme since banks would exert extra effort in increasing loans to the priority sectors.

The appropriateness of the design and implementation of guarantee schemes is, however, also crucial to the effectiveness of the programs. Hence, even with an effective deposit mobilization the downward shift in the MC curve may be small compared to what the designers of the program expects. There are several reasons why this can happen. First, there is a cost of participation in the guarantee programs (e.g., supervision and monitoring cost, guarantee fees, additional paperworks due to additional requirements of the Guarantee Board, etc.).

Second, banks may perceive a "post-exhaustion cost." That is the cost of collection and the cost of foreclosure and claiming for guarantee in case of a default.

Third, the effectiveness of guarantee programs is reduced due to the <u>moral hazard effect</u>. This may also be referred to as the "incentive effect", which brings out the "dole-out" mentality among borrowers. That is, because risky borrowers are aware that the government are "backing-up" their loans, they may have more incentive to default. Moral hazard is also possible among financial institutions. In their case, they may liquify riskier

guaranteed loan's while use their own funds for the less risky loans.

On the basis of the above discussions, it is hypothesized that under certain circumstances guarantee programs can help increase the amount of credit to the priority sectors. This is called the "additionality" hypothesis.

There are three possible additionality situations that could occur. First, that there is an increase in formal credit to agriculture at the expense of the non-agricultural activities. this situation, the additionality occurs because of a: Under substitution in the allocation of loanable fund's. For а substitution to occur an interest subsidy has to be paid to the If the subsidy payment is taken from income taxes then the bank. guarantee program becomes a guarantee cum tax subsidy scheme.

The second additionality case occurs when there is an increase in loans to the priority sectors through a guarantee program with rediscounting without a corresponding decrease in loans to the non-priority sector. In this case, there is net additionality but this increase comes mainly from government funds. In effect substitution also occurs where government funds substitute for bank funds.

The third case happens when there is an increase in agricultural loans through a guarantee with deposit mobilization. As in the previous case, there is net additionality since loans to the non-priority sector is not affected. The increase, however, comes from the banks' own funds. Hence, no substitution takes place. Among the additionality cases, this case is the ideal scheme because it implies banking institutions initiative in lending to priority sectors.

test the additionality hypothesis, the То following indicators are used. First, the ratio of risky loans (i.e., in this case agricultural loans) to the total loan portfolio of banking institutions or the ratio of guaranteed loan to total agricultural loans of banking institution. With the guarantee these proportions should have been increasing. program, In a cross-section analysis of banks, both ratios should be higher for banks participating on the guarantee program than for the nonparticipants. These measures, however, only indicate the degree of participation of banks in lending to agriculture and in guarantee programs but not their willingness to invest their own funds for agricultural activities.

A second indicator is the ratio of agricultural loans to deposits of banking institutions. Similarly, this ratio should also have been increasing. If banks' loanable funds are sourced mainly from deposits, an increasing ratio suggests willingness of banks to invest their funds in agriculture. On the other hand, if loanable funds are not taken mainly from deposits (e.g., government funds), then this ratio would only roughly reflect whether the increase in formal credit to agriculture is due to banks' own funds. A better measure, however, is the ratio of rediscounted agricultural loans to the total agricultural loans or the proportion of the rediscounted guaranteed loans to the

total loan's guaranteed. An increase in these ratios would imply that banks have been using the guarantee programs as a liquidity source. In contrast, a decrease implies that the guarantee programs have been successful in encouraging banks to lend their own funds to agricultural activities.

III. BRIEF DESCRIPTION OF THE GUARANTEE PROGRAMS

There are four guarantee programs currently available to the private banking system. They are: (1) the Guarantee Fund for Small and Medium Enterpribeb (GFSME); (2) the Industrial Guarantee and Loan Fund (IGLF); (3) the Quedan Guarantee Program (QGP); and (4) the Crop Insurance Program (CIP). Recently, funds the various SCPs have been consolidated from under the Comprehensive Agricultural Loan Fund (CALF). This fund provided additional guarantee resources for the existing guarantee programs.

1. The GFSME

The program was established in February 1984 to encourage banking institutions to lend their own funds to small and medium size-enterprises engaged in either production or processing. The program operates under several subsystems.

(a) Accreditation Subsystem

This subsystem evaluates the financial institutions that will grant loans under the program.

(b) Interest Rate Subsidy Subsystem

This subsystem serves as a vehicle by which the cost of borrowing is regulated while providing a reasonable spread to lending institutions.

(c) Liquidity Subsystem

This Subsystem enables financial institutions to liquify their loan portfolio by selling loan papers to This mechanism has similar features to the Central GFSME. Bank rediscounting window only that the loan papers are sold at par but the 15 percent risk is retained by the bank.

(d) Mortgage Subsystem

This subsystem acts as a secondary market which promotes trading of loan papers among participating institutions and other investors.

(e) Insurance Subsystem

This subsystem is intended to minimize lending risks. Here GFSME absumes at most 85 percent of credit risk in lending to its eligible borrowers.

2. The IGLF

The program is a revolving fund established in 1952, which provides both financing and guarantees for cottage, small and medium sized industrial and agro-industrial enterprises. There are three possible financing schemes under the program:

(a) Special Time Deposit (STD)

This program provides full financing for loans approved under the program.

(b) Combination of STD and Guarantee

This program provides for financing and guarantees a portion of the deficiency in collateral requirements.

(c) Straight Guarantee

This scheme applies when banks utilize their own funds for loans eligible under the IGLF. In this case, a guarantee up to a maximum of 85 percent is applied.

(3) The QGP

This program is operated by the Quedan Board which was established in June 1978 primarily to supplement the capital requirement of businessmen engaged in marketing of grains and other basic food commodities. The program operates under three leverage modes:

(a) Credit Guarantee Mode

This mode is similar to the straight guarantee scheme of IGLF. It does not provide financing but guarantees a maximum of 80 percent of loans made with banks' own funds. There are three financing programs under this mode: (1) the Quedan for Food Traders and Processors (FTP); (2) the Quedan for Farmer's Group (FG); and (3) the Quedan for Sugar. (b) Credit-Sharing Mode

This mode is a fund partnership scheme where the Quedan Board provideb 50 percent of the financing and 100 percent guarantee on the other 50 percent provided by the lending institutions. In this mode interest rates ceilings are set by the Board. The financing programs under this mode are: (1)the Quedan financing for market retailers (MRP); and (b) the Quedan financing for food and agriculture marketing enterpribes (FAME).

(c) Credit Sourcing Mode

This mode provides 100 percent financing to eligible projects. In this mode, the Quedan Board has a tie-up with the Land Bank and IGLF. The programs under this mode are: (1) the Quedan Financing for Intensive Rice Production and Expanded Corn Production (IRPP/ECP); and (2) the Livelihood Financing for Employees (LIFE).

(4) The CIP

This program was established in May 1981. It differs from the other guarantee programs in that it does not directly provide guarantees to loans granted by financial institutions. Rather it provides protection to farmers, in particular rice and corn farmers, by insuring farm losses due to natural calamities. Therefore, lending institutions are indirectly provided guarantee cover since the program will cushion them from the effects of loan defaults due to crop failure. This occurs because the proceeds of the insurance claims of borrowing farmers are applied directly against the borrower's outstanding loan.

In sum what is common to all these guarantee programs is objective of developing and the supporting lending institutions initiatives in granting loans to the priority sector. An important point to note is that the various guarantee programs have several features, and providing guarantees for loans made by financial institutions to priority sectors is only one feature. The other feature's include among other's a liquidity mechanism, credit sharing arrangements, and interest rate subsidies, and they could serve as the main attraction of the program to a lender rather than the guarantee itself.

The term's and condition's of the loan's eligible for guarantee or insurance under each guarantee scheme's are summarized in Table I. Except for IGLF, all other program's cater to the agricultural sector. The borrowing rate for GFSME and IGLF are fixed for the term of the loan and determined by the Guarantee Board. In contrast, under the QGP and the CIP interest rates are based on the prevailing commercial rates.

IV. UTILIZATION OF GUARANTEE FUNDS

Data available from the various guarantee programs show that the amount of guaranteed loans has been increasing in <u>real</u> <u>terms</u>. This is revealed by the positive annual growth rates for all guarantee programs (Table 2-4). GFSME showed the highest growth rate (113.6%).

The table's further reveal that the bulk of loan's guaranteed have been originated by commercial bank's (KBS). This is followed

Table 1. SPECIAL RISK-REDUCING PROGRAMS

Program	Bligible Projects	Bligible Borrowers	Loan Purposes	Kerinum Loamable Ant.	Interest Rate	Matarity Period	Node of Payment	Extent of Guarantee	Collaters)		Number and Type of Accredited Channels
GPSHE	in the direct production and/or processing of food intended for bio- logical consump- bion; those indirectly involved	Projects- individuals or enterprises Medium Scale Projects- Pilipino stock	 A. Fixed Assets acquisition B. Construction of phant facilities C. Working Capital D. Refinancing of erciting loans with other financial insti- tutions that are current in status not to exceed 60% of the total loan approved. 	 A. Small Scale loan- P250,000 to 72.9H B. Medium Scali loan - more than P2N to P3N C. Small Goan Package Proy 750,000 to 500,000 	guarantee	 & Working Capital- maximum 5 years, inclusive of I year proce period on principal Acquisition of fixed assets- maximum of 10'years inclusive of 2-year period on principal 	equal southly or guarterly smotification of principal and interest	65% of out- standing loan	- do -	not more than 3% of the principal loan amount payable upon loan approval and deductible from	As of May 1987 Commercial banks = Development banks = Other thrift banks = Total

	includes I year grace period
•	b/ includes 2 years grace period

dif dif ALF = Agricultural Loan Fund

continued..... Table 1

Bligible Program Projects		Eligible Borrowers	Loan Purposés	Maximum Loanable Ant	Interest Rate	Katurity Period	Hode of Payzent	Extent of Guarantee	Collateral	Fees/Charges	Hember and Type of Accredited Channels
IGLF Those invol the establi or expansio industrial, industrial mining ente including in turing conc those servi industries ive of panu ring activi (see Annex complete li eligible pr	ved in shaent a of an agro- or rprises anufac- erns and ce support- factu- ties C for st of	A. Cottage enter- prise total assets over 950,000 but not more than 9500,000 bot financing. Snall-Scale = total assets of more than 9500,000 but not exceeding 950 before financing.	 A. Purchase of factory site for new and expansion project. B. Construction of factory buildings C. Purchase of machinery/equipment fixtures a instal- lation costs D. Permanent Working Capital 	cottage indus- tries- iPO.4M B. Small- Scale	Fired term to be determined by the IGLF every quarter.	 A. Fixed Asset acquisition = 12 yrs. inclusive of 3 yrs. grace. period on principal B. Working Capital ? yrs. inclusive of 2 yrs. grace period on principal B.1 Packing Credit Loans = not exceeding 180 days 	equal quarterly anortization of principal and interest	a) Collateral Short Guarantee= 25% of the loan b} Credit- Risk Guarantee Cottage=60% and small industries. Nedium = 40% Lodustries.	 ieft to the discretion of financial institu- tions. Acceptable collaterals are: a) promissory note supported by real estate or chattel mortgage b) letters of credit c) confirmed purchase orders or sales contracts 	 a) Penalty charge St p.a. imposed on financial, institutions which may be passed to borrowers. f/ b) Quarantee fee = 2% of guaranteed amount 	Commercial banks Private development banks Specialized govt. banks Savings and loan banks Non-bank financial intermediaries Tetal
: 	ا	. BEULUM-SCALE = total assets of more than P5.0K bpt not exceeding P2DM before financing.				8.2 Production credit - not exceeding 360 days		· · · · · · · · · · · · · · · · · · ·	Deed of Pledge on the negotiable quedan	guarantee fee-lk per annum collected on banks at a graduated rate based on the amount of loan	Branches of Foreig banks Specialized govt. banks
QGP a) Quedan Einancing for grains and food businessmen (includes silled ric corn grains, sorglus surbeans, mongo and peanuts)	e b	 NPA licensed or registered food businessmen farmer posses- sing NPA pass- book Samahang Nayon duly registered withNPA NFA licensed Area Marketing Ccop. 	Kovement of milled rice, corn grains, sorgrum soybean, hongo, peanuts, segar, tobacco, copre	Prescribeć by CB	Prevailing commercial rate,	Between 60-180 days nilled rice, coro grains = 90 days naximum Sorghum/unshelled peanuts- 120 days naximum Soybees/nongo- 150 days naximum All loans are renewable for another term	Upon Heturity	80% of ' outstanding loan		which will not be passed to the berrowers	Savings and Loan Banks PDBs Rural Banks Total

Features will only include Quedan Financing programs covered by the guarantee,

Maybe passed on to sub-borrower for collateral short guarantee but shall be shouldered by financial institution in the case of a cradit-risk guarantee.

Continued..... Table 1

Program	Eligible Projects	Eligible Borrowers	ioan Purposes	Maximum Somnable Amt.	Interest Rate	Maturity Period	Node of Payment	Extent of Guarantee	Collateral	Fees/Charges	No.4 Type of Accredited Channel
	Financing for and corp	legitimate farmer's group	provide farmer with cash for immediate needs	Depends on the quantity of stocks pledged	prevailing commercial rate	for palay = 180 days for corn = 90 days	upon maturity	ivs of the outstanding loan	deed of pledge an negotiable quedan	guarantee fee= 2% p.s. based on the amount of lean and will not be passed on to borrowers	same as (a)
. CIP	Projects involved in the production primarily of rice and corn	Originally rice and corn farmers. However, this has been extended to other crops as well with the integration of the CALF.	protects the farmer's investment from losses due to natural catamities and cushions hending institutions from the effects of loan defaults	production needs of the farmer	prevailing commercial raie	- do -	- do -	may envision a 100% guarantee depending on the extent of the loss.	real estate mortgage or based on discretion of the banking institution	Banking institution = Government = Self-financed farmer = Government = <u>Corn</u> Borrowing farmer = Banking institution = Government =	7.5% 2.0% 9.0% 2.5%

e/

Palay and corn covered by existing crop insurance are no longer eligible for guarantee coverage. However should CALP accredited banking conduits grant production loans for these crops they will be covered automatically by insurance.

computed on the basis of the cost of production.

Source of data: GPSNE, IGLF, QGFB, PCIC

		19	<u>a</u> / 84		·	19	985			Average Annual			
Banking Institution	No.	ę 	Amt. (₽M)	* *	No .		Amt. (PM)	8	 No	. 8	Amt. (PM)	8	Growth Rate (Amt.)
KBB	5	41.7	3.1	64.6	3Ø	52.6	11.0	55.0	52	61.9	12.3	56.2	99.2
PDBb	7	58.3	1.7	35.4	27	47.4	9.Ø	45.0	32	38.1	9.6	43.8	137.4
a/ RB's	-		-										
TOTAL	12 ==	100 ===	4.8 ===	100 ===	57 ==	100 ===	2Ø.Ø =====	100 ===	84 ==	100 ===	21.9 ====	100 ===	113.6
Source of da	ata:	GFSME											**
a's of Febr	ruary	1984	-							-			
b/ RBb were e 19	exclu 984-8	ded fr 6	om pa:	rticipa	ting	in the	e prog	ram fro	οm				

Table 2.GUARANTEED LOANS GRANTED BY SELECTED BANKING INSTITUTIONS, GFSME, 1984-86
(IN REAL TERMS, 1972 = 100)

Banking			78			197	9		<u>.</u>	198	0		1981				
Insti- tution	No,	*	Ant. (PN)		No.	% .	Ant, (PH)	*.	No.	%	Ant. (PN)	2	No.	x	Amt. (PM)	3	
KBs	30	21.4	5.8	26,5	23	15,6	4.5	18.7	29	17,1	13.2	25.8	28	12.6	12.5	16.	
PDBs	15	10.7	2.3	10.5	13	8.8	2.0	8.3	13	7.6	2.1	4.1	.: 1.	0.4	0.1	0.	
RBs	16	11,4	0.7	3.2	10 -	6.8	0.5	2.1	6	3.5	0.1	0.2	4	1.8	0.2	0.	
NBFIs	71	50.7	11.9	54.3	100	68.0	17.1	70.6	119	70.0	35.5	70.3	170	76.6	55.3	74.	
Others	8	5.7	1.2	5.5	1	0.7	0.1	0.4	3	1.8	0,3	0.8	19	8.6	6.0	8.	
Total	140 ===	100 ===	21.9 ====	100	· 147	100	24.2	100	170	100	51.2	100	222	100	74.1	100	

Table 3. GUARANTEED LOANS GRANTED BY FINANCIAL INSTITUTIONS, IGLF, 1978-1986 (in real terms 1972 = 100)

T	able	3.	(d	con	ti	'nι	lat	ion)
						·			

Banking					1983 1984 1985							5	1986					Ave. Annual Growth_Rate_(X)				
Insti- tution	No,	*	Ant. (PN)	. % ¹ ∃	No.	X	Ant. (₽M)	*	No.	*	Ant. (PN)		No.	%	Amt. (PK)	*		%	′Ant. (₽W)	×		Ant. (PN)
KBs	31	19.1	14.6	26.7	78	46.2	27.0	49.1	175	64 1	56.9	50,4	216	54.0	55.3	60.8	86	46.0	.16.4	50.5	14.1	13.9
PDBs	16	9.9	4.1	7.5	-	-	-	-	6	2.2	1.3	38.0	112	28.0	19.9	21.9	75	40.1	12.3	37.8	22.3	23.3
RBs	-	; -	- 	-		-	-	- 		-	-	-	-	-	-	-	1	0.5	-	-	29.3	(32.5)
NBPIs	110	67.9	34.3	62.7	79	46.7	26.5	48.2	50	18.3	7.9	4.6	40	10.0	5.9	6.5	12	6.4	1.5	4.6	24.9	(22.8)
Others	5	3.1	1.7	3,1	12	7.1	1.5	2.7	42	15.4	18.1	6.9	32	8.0	9.8	10.8	13	7.0	2.3	7.1	6.2	(8.5)
Total	 162 	100 ===	54.7 ====	100 ===	 169 ===	100	55.0 ====	 100 ===	273 ===	100	 84.2 ====	100	400 ===	100 ===	90.9 ====	100 ===	 187 ===	100	32.5	100	3.7	21.6 ====

/eare	 3		KBs	1972=100) PDBs	RBs	Totals
070			(in mi	llion pesc)6)	
<u>1979</u>	FTP		2.9		Ø.4	3.3
1980			200			
	FTP		4.9		1.4	6.3
<u>1981</u>	FTP		17 5	Ø.5	1.7	19.8
	FG		Ø.2		1•/	Ø.2
	Total		17.7	Ø.5	1.7	20
<u>1982</u>						
	FTP		47.Ø Ø.3	3.9	1.8	52.7
	FG Total		ؕ3 47•Ø	3.9	1.8	Ø.3 53.0
983			a t v 1 / ·			
	FTP		82.5	3.1	1.3	86.8
	FG		Ø	<u> </u>	1 2	
L984	Total		82.5	3.1	1.3	86.8
223	FTP		48.7	Ø.1	Ø.5	49.4
	FG		Ø			
	MRP		Ø . 8	Ø.3	0.1	1.3
005	Total		49.5	Ø.4	Ø.6	50.7
985	FTP		64.3	Ø.5	1.6	66.4
	FG				Ø.2	Ø.2
	MRP		2.4	2.4	1.0	5.8
000	Total		66.7	2.9	1.0	5.8
1986	FTP		87.2	6.3	2.3	95.8
	FG		Ø.1	Ø.2	Ø.3	Ø.6
	MRP		Ø . 8	4 .Ø	1.8	6.6
	Total		117.1	10.5	4.4	103.0
Ave.	annua.	. growth	rates (5)		
	FTP 2		62.6	66.0	28.4	61.8
	<u>c</u> /			•		
	FG		(10.9)		-	20.1
	₫/ MRP		_	265.1	324.3	125.3
		ograms	69.6	54.5	40.8	63.5
	ce of d	lata: Q	uedan Boa	ard		
a/ do	not ir	nclude l	oana urai	nted by sa	avings bank	9. [°]
2/			y.a.			~ ~
Qua	edan fo	or Food/	Traders 1	Program		
<u>2/</u> Oue	edan fo	or Farme	rs Group			
2	TACH TO	- I GI MC	To group			

a/ Table 4. GUARANTEED LOANS GRANTED BY TYPES OF

by the private development banks (PDBs). The rural banks (RBs) originated a minimal amount of guaranteed loans.

The above trend has been observed for all years under the GFSME and QGP programs. For the IGLF, the non-bank financial institutions (NBFIS) granted the bulk of guaranteed loans during the earlier years (1978-82). Starting in 1983, however, KBs originated most of the guaranteed loans.

The above finding is not surprising since KBs represented most of the accredited banks. KBs comprise about 50 percent of the total number of accredited institutions under GFSME, and 60 percent under IGLF. Although only 20 percent of the accredited institutions under QGP are KBs, they have, however, originated bigger loans averaging Pl.71M compared to RBs whose loan size average only P20,000.

Under the GFSME and IGLF programs average loan size falls 1.0M - 2.0M bracket. Table 5 shows that about within the 9Ø percent of the loan's granted under GFSME are within the 2.0 -5.0M bracket mode. For the years 1985 and 1986, loanb within this size category comprise about 50 percent of the amount of and 38 percent of the number of project's guaranteed. On the other hand, loan's below \$500,000 but not less than \$200,000 comprise an average of 14.4 percent. In term's of average annual growth rates, loans of size P0.5 - 2.0M registered the highest growth rate; followed by loan's of ₱2.0 - 5.0M.

			1984				1985				1986			Ave. Annual Growth Rates (%)	
.:		No.	%	Amt. (₽M)		No	. %	Amt. (₽M)		No.	%	Amt. (₽M)	%	Number	Amount (₽M)
Distributic Loan Size	on by					<u>.</u> .						<u>_</u>			
₽0.2M - ₽0	. 5M	4	33.0	0.4	8.5	8	14.0	0.5	2.5	15	17.8	0.9	4.0	93.4	50.0
0.5M - 1	. OM	1	8.5	0.2	2.1	6	10.5	0.6	3.0	20	23.8	2.3	10.7	347.2	389.9
1.0M - 2	.OM	4	33.0	1.0	21.3	17	29.8	4.3	21.6	20	23.8	4.3	20.1	123.6	107.4
2.0M - 5	OM	2	17.0	.1.8	38.3	23	40.4	11.3	56.8	:27	32.1	12.6	51.2	267.4	164.6
5.0M - 8	.OM	2	8.5	1.4	29 .8	3	5.3	3.2	16.1	2	2.4	2.0	9.0	0	19.5
TOTAL		12 ==	100 ===	4.8 ===	100 ===	57 ==	.100 ===	19.9 ====	100 ===	84 ==	100 ===	22.1 ====	100 ===	16 4.6 =====	118.3

Table 5. GUARANTEED LOANS GRANTED^a BY LOAN SIZE, GFSME, 1984-86 (IN REAL TERMS, 1972=100)

Source of data: GFSME

a/

net of withdrawals during the year (i.e. active currents).

For the IGLF program, the bulk of the loans are within the P800,000 - 4.0 M bracket (Table 6). Moreover, it is further observed that over the years only the bracket modes greater than P500,000 showed positive average annual growth rates. That is, there has been an increase in the number of loans belonging to these size categories. On the other hand, loans below P500,000 have been decreasing in number.

Similarly, under the QGP, loans for the Farmer's Group have become unpopular among banking institutions (refer to Table 4); while loans for FTP and MRP have been increasing.

The above findings suggest the preference of banks for fairly large-sized loans.

The most popular investment area for GFSME is fish and marine, in particular prawn culture (Table 7). Within GFSME's three years in operation, a total of 153 loans representing about 54 percent of total loans guaranteed were in fish and marine. Seventy (70) percent of these are in prawns. Under IGLF, mahufacturing is the most popular investment area (Table 8). About 97 percent of loans granted under the program are in the industrial sector, in particular the food and food products manufacturing sub-sector. On the other hand, most loanb guaranteed under the QGP were from the FTP program (refer to Table 4), comprising about 98 percent of loans granted. The program for Farmer's Group (FG) is the least popular. It's share is neglible and in some years no loans were originated under the program.

Size of Loan (P)		1978	1979		
	NO.	Amount (₽M)	No.	Amount (PM)	
50,000 and below	3		1		
50,001 - 200,000 200,000 - 500,000	42	2.4	28	1.6	
200,000 - 500,000 500,001 - 800,000	95 -	19.5	118	22.5	
800,001 - 2,500,000	_	 _	-	-	
2,500,001 - 4,000,000	-	· -	-	-	
4,000,0001- 5,000,000	-	-	-	-	
TOTAL	14Ø	21.9	 147	24.2	
*****			***		
Size of Loan (P)		1980		1981	
	No .	Amount (₽M)	NO.	Amount (PM)	
50,000 and below	 4	Ø.1	2		
50,0001 - 200,000	19	Ø.9	27	1.2	
200,001 - 500,000	72	11.5	49	6.1	
500,001 - 800,000	18	4.5	46	1Ø.8	
800,001 - 2,500,000	57	34.4	98	56 . Ø	
2,500,001 - 4,000,000	-	-	-	-	
4,000,001 - 5,000,000	-	-	<u>-</u>	-	
TOTAL	170	51.4	222	74.1	
、 Size of Loan (₱)		1982		1983	
*	NO.	Amount (₽M)	NO.	Amount (PM)	
50,000 and below				·	
50,001 - 200,000	.16	0.7	18	Ø.8	
200,001 - 500,000	38	4.5	34	3.5	
500,001 - 800,000	3Ø	6.6	23	4.3	
800,001 - 2,500,000	77	42.1	85	37.9	
2,500,001 - 4,000,000	-	Ø.9	8	9.3	
4,000,001 - 5,000,000		-		-	
TOTAL	1 62	54.8	 169	 55.1	

Table 6. GUARANTEED LOANS GRANTED BY LOAN SIZE, IGLF, 1978-86 (IN REAL TERMS 1972 = 100) continued ... Table 6

		1984	1985		
Size of Loan (₽)	No.	Amount (PM)	NO.	Amount (₽M)	
				_	
50,000 and below	-	- a 2	- 17	_ Ø.3	
50,001 - 200,000 200,001 - 500,000	9 33	Ø.3 2.3	59	3.6	
	27	3.3		3.6	
800,001 - 2,500,000		37.2	216	47.1	
	66	40.3	65	34.2	
4,000,001 - 5,000,000	ĩ	ø.9	2	1.4	
4/000/001 5/000/005			* * *		
TOTAL	273	84.2	400	90.9	
			· · ·		
		1986	Ave. Annual Growth Rates (%)		
Size of Loan (₱)		Amount (PM)	No.	Amount (PM)	
50,000 and below	1		(12.8)	-	
50,001 - 200,000	15	Ø.4	(12.1)	(20.1)	
200,001 - 500,000	39	2.3	(10.5)	(23.4)	
500,001 - 800,000	30	3.0	8.9 <u>a</u> /	(6.5) <u>b</u>	
800,001 - 2,500,000	85	18.3	6.9	(10.0)	
2,500,001 - 4,000,000	17	8.4	103.0 <u>b</u> /	74.8 <u>b</u>	
4,000,001 - 5,000,000	-				
TOTAL	187	32.5			
Source of data: IGLF.					
a/ from 1980 - 1986					
b/					

Table 7. GUARANTEED LOANS GRANTED BY INVESTMENT AREA, GFSME, 1984-86 (IN REAL TERMS, 1972 = 100) γ_{1}

		198	34		· .		1985	•	· · · ·	.198	6		Ave. Anı Growth I	nual Rates (%)
Investment Area	No.	%	Amt. (PM)	%	No	%	Amt. (₽M)		No.	*	Amt. (₽M)	%	Number	Amount (PM)
											-			
. Cereals and grains	0	•	0		1	-	0.4	2.0	4	4.4	0.9	4.1	-	-
. Fruits and Nuts	· 0 [°]		0		4	7.0	1.4	7.0	2	2.2	1.2	5.4	-	· · _ ·
. Vegetable and crop	1	8.3	0.1	2.1	2	3.5	1.2	6.0	0	-	-			.*
. Livestock and Poultry	5	41.7	2.2	45.8	12	21.0	2.9	14.5	19	21.1	4.1	18.6	94.9	36.5
. Fish and Marine	3	25.0	0.9	18.8	29	50.9	10.5	52.5	45	50.0	12.9	58.4	287.3	278.6
. Others - Food	3	25.0	1.6	33.3	.: • 7	12.3	2.9	14.5	11	12.2	2.4	10.8	91.5	22.5
. Others Non-Foo	d <u>0</u>	_	-	_ 	2	3.5	0.7	3.5	3	3.3	0.6	2.7	-	· •
OTAL	12	100	4.8	100	57 	100	20.0	100	90 ==	100	22.1	100	164.6	118.3

Source of data: GFSME

- less than 2%

	197	8	19	79	1	980		19	81		1	982
Industry	 No.	Amt. (足M)	No.	Amt. (PM)		Amt. (₽M)	· · ·	· ·	Amt. (₽M)		(PM)	Amt.
Manufacturing	132	20.7	145	23.8	161				73.1		161	
Construction	1	0.2	0	0	1	0.9		0	0		· 0	0
Four ism	3	0.4	2	0.4	3	0.9		2	0.5		0	0
Other Services	4	0.6	0	0	5	1.0		_ 2	0.5		1	0.2
Total (all industry)	140	21.9	· . ·	-	170			222	74.1		162	54.7
	198	33				985	<u> </u>	19	- 86			nnual ate (
Industry		Amt. (PEM)	No.	Amt. (₽M)		Amt. (₽M)	•	No.	Amt. (₽M)	No		Amt. (₽M)
<u>a</u> / Nanufacturing		53.0			395		·	184	32.2		4.2	5.7
Construction	1	0.8	0	0.	1	0.2		0	0	·		-
Fourism	0.	0	0	O	0	0	·	0	0	: -	-	-
ther Services	3	1.3	7	2.6		0.7	·	3	0.3	(:	3.5)	(8.3)
Total (all industry)	169	55.1	273	84.2	400	91.0	· ·	187	32.5		3.7	5.0

GUARANTEED LOANS BY INDUSTRY, IGLF, 1978-1988 (IN REAL TERMS, 1972 = 100)

Source of data: IGLF

- less than 2% a/

see Appendix III-2 for details

the CIP, the total number of farmer's insured represent For onlv about 14 percent of the total rice farmer's and about 2Ø percent of the corn farmer's in the country. The bulk of insurance comes from the region wHere the crop is popularly or widely grown, for instance, Region III for rice crop and Region for corn. The number of insured farmer's for both ΧТ crops has been declining, however, the amount of coverage has Shown positive growth rates.

In terms of repayment performance, the GFSME and QGP seem to be doing quite well, boasting a repayment rate of more than 90 percent. IGLF repayment performance is not as impressive as GFSME and QGP as repayment rates average only about 50 percent.

success of the guarantee programs depends to a The certain extent on the ability of the implementing agencies to sustain their financial viability and credibility. The costs incurred in operating the schemes give some indication's of their overall performance. Among the guarantee programs, the IGLF hab the least cost per peso incurred which amounted to P0.019 (Table 9 11), followed by CIP (P0.050). GFSME has the highest average cost per peso (PØ.11). Despite this, however, GFSME registered the highest income among the three programs. This is due to the good repayment rates of GFSME compared to IGLF. CIP's income on the other hand, was "eaten up" by the huge amount of indemnities. Starting in 1983, the program has been paying, on average, more than 63 percent of the premium earned. Hence, even income from itb investments in government securities has been utilized to cover cost.

	1984	1985	1986	Average Annual Growth Rate (%)
1. Administrative Cost (PM)	0.7	1.5	2.4	85.2
2. Projects Financed				
a. Number	12	57	94	179.9
b. Amount (₽M)	4.8	20.0	22.3	118.3
3. Cost/Loan				
Cost/Project (1 : 2a) P	58,333	26,316	25,531	(33.8)
Cost/Peso (1 : 2b) ₽	0.14	0.08	0.11	(11.4)
4. Guarantee and Participation Fee	36,149	738,116	280,208	178.4

Table 9.GFSME COST OF DOING BUSINESS, 1984-86
(IN REAL TERMS, 1972 = 100)

Source of basic data: IGLF

an a						·					
	· .	1978	1979	1980	1981	1982	1983	1984	1985	1986	Average Annual Growth Rate (%)
	· .								н 1917 — Д		
<u>-</u>					· · · · · · · · · · · · · · · · · · ·						
1. IGLF Administrat Cost (PM)	ive	0.6	0.7	0.8	1.0	1.1	1.2	0,9	0.9	0.8	3.6
2. Projects Finance	d						. ·		•• •	· ·	
a. Number	· · ·	140	147	170	222	162	169	273	400	187	3.7
b. Amount (₽M)		21.9	24.2	51.4	74.1	54.8	55.1	84.2	90.9	105.0	0 21.6
3. Cost/Loan							· · · ·				
Cost/Project (1	: 2a)	4,286	4,762	4,706	4,504	6,790	7,100	3,297	2,250	4,27	B (0.02
Cost/Peso (1	+2b)	0.027	0.029	0.016	0.013	0.020	0.022	0.011	0.010	0.02	5 (1.0)
				:	.*		· ·				

.

Table 10. IGLF COST OF DOING BUSINESS, 1978-86 (IN REAL TERMS, 1972 = 100)

Source of basic data: IGLF

Table 11. CIP COST OF DOING BUSINESSES, 1981-86 (IN REAL TERMS, 1987 = 100)

· ••	1981	1982	1983	1984	1985		Average Annual Growth Rate (%
. Administrative cost	4.3	7.8	8.3	6.6	6.5	6.2	7.6
2. Policies issued (total)	· ·						
<u>a</u> . a. Amount (睅 million)	84.0	129.9	158.0	112.8	172.4	151.0	12.4
b. Number of farmers	108,528	180,583	220,633	156,417	186,161	141,868	12.4
c. Number of hectares	199,333	322,916	387,527	259,030	337,976	271,13	5.5
3, Cost/Loan		• .	· · · · ·	н 1 [—] н	÷	 	•
Cost/peso (1 ÷ 2a) ₽	0.05	0.06	0.05	0.06	0.04	0.04	(4.4)
Cost/farmer (1 ÷ 2b)	39.60	43.20	37.62	42.20	34.90	43.70	2.0
Cost/hectares (1 : 2c)	21.60	24.20	21.42	25.50	19.23	22.90	1.2
4. Ratio of claims to premium earned	0.25	0.83	1.56	1.84	1.51	1.71	46.9
5. Loss ratio	0.71	1.66	2.32	2.66	2,04	2.28	26.3

a/ both borrowing and self-financed farmers.

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V. IMPACT OF GUARANTEE PROGRAMS ON SUPPLY OF CREDIT

This section examines some indicators to determine the probable effect of the guarantee programs on the supply of credit to the socially desirable sector, in this case, agriculture.

In absolute terms, agricultural loans granted by banking institutions showed a positive average annual growth rate for the years 1981-86 (see CB Statistical Bulletin 1986). However, the ratio of agricultural loan's to total loans of banking institutions has shown negative growth rates (Table 12). Thib finding indicates that despite the increase in the loan portfolio agricultural loans seems to be of least priority of bank's, to them. Surprisingly, this occurred even though the volume of. guaranteed loan's was observed to be increasing in real terms ab earlier mentioned. Of the total agricultural loans granted by institutions, guaranteed loans represented only banking an average share of 2.8 percent (Table 13). This share is, however, increasing. Among banks, PDB's have the largest share of guaranteed loans in their loan portfolio. RBs rank next followed by KBb.

The increase in the amount of guaranteed loans suggests a positive attitude of banks towards guarantee programs. However, increase vis-à-vis a declining share of agricultural this loans to the total loan portfolio of banking institutions indicates that there is no net addition to loan granted to the agricultural sector. А substitution must have occurred. In this cabe government funds are substituted for bank's' funds.

Type of Institution	1981	1982	1983	1984	1985	1986	Growth	Propor-
KBs	7.7	6.3	6.8	7.3	9.0	6.6	(3.0)	7.3
PDBs	19.2	19.8	8.5	15.3	12.0	13.8	(6.4)	15.1
RBs	85.0	82.8	80.6	75.9	71,4	66.0	(4.9)	80.1
Total <u>a</u> / (All Banks)	9.1				12.1 ====			8.9 ===
Source of dat		AC-ACS S Statist						
<u>a</u> /								

Table 12.PROPORTION OF AGRICULTURAL LOANS TO TOTAL LOANS,
SELECTED BANKING INSTITUTIONS, 1981-86 (IN PERCENT)

, inc1udes SGBs, Sa∨ings Banks, SSLAS

Financial Institution	1981	1982	1983	1984	1985	1986		Ave. Ratio 1981-86
	· · · · · · · · · · · · · · · · · · ·		<u> </u>					
KBs	1.0	1.4	2.1	1.5	2.4	4.2	(33.2)	2.1
PDBs	42.2	77.8	12.0	59.8	58.4	25.8	(0.9)	46.0
RBs	1.0	2.0	1.2	1.8	2.6	3.8	16.1	2.2
Total (All Banks)	1.7	2.7	2.1	2.2	3.1	5.0	24.1	2.8

Table 13. RATIO OF AGRICULTURAL GUARANTEED LOANS TO AGRICULTURAL LOANS GRANTED, SELECTED FINANCIAL INSTITUTIONS, 1981-86 (IN PERCENT)

۰.

Source of data: GFSME, QGFB, CB

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Unfortunately, there is no information on agricultural loans granted by banking institutions from their own funds or agricultural loans rediscounted, to determine whether banks have been using the guarantee programs as a "liquidity window".

Comparing agricultural loans granted with the deposits generated by banking institutions might give a rough idea on the extent of utilization of bank funds. Table 14 reveals that the share of agricultural loans to deposits of banking institutions has been declining, from 26.0 percent in 1981, to 13.9 percent in 1986, or annual average decrease of 12.0 percent. This an happened despite the increase in real deposits. Real deposits showed an average annual growth rate of 29.3 percent for a 6year period, 1981-86 (see CB Statistical Bulletin 1987). Among banks, the ratio of agricultural loans to deposits also showed negative annual growth rates. Only PDB5 showed a positive average annual growth rate (3.5%) but this is minimal compared to the 43.4 percent increase in real deposit for the same period.

The share of agricultural loans to deposit average only 20.7 percent. Among banks, rural banks allocate the highest proportion of deposits to agricultural loans (113%) while KBs and PDBs allocate only 20 percent.

The only available data so far that would directly determine the amount of agricultural loans rediscounted is from the Comparative Bank Survey (Table 15). The table reveals that of the total guaranteed loans granted by participating banks for all the guarantee programs in 1986, 97.3 percent have been

1981	1982	1983	1984	1985	1986	Ave. Ratio 1981~ 1986	Ave. Annual Growth Rate (%)
23.9	22.4	19.3	17.6	16.7	12.9	18.8	(11.6)
23.5	20.3	14.2	15.1	12.7	27.9	19.0	3.5
153.5	143.7	128.4	101.2	92.0	59.4	113.0	(17.3)
26.0 ====	24.7 ====	21.9 ====	20.8	16.9 ====	13.9 ====	20.7 ====	(12.0) ======
	23.9 23.5 153.5 26.0	23.9 22.4 23.5 20.3 153.5 143.7 26.0 24.7	23.9 22.4 19.3 23.5 20.3 14.2 153.5 143.7 128.4 26.0 24.7 21.9	23.9 22.4 19.3 17.6 23.5 20.3 14.2 15.1 153.5 143.7 128.4 101.2 26.0 24.7 21.9 20.8	23.9 22.4 19.3 17.6 16.7 23.5 20.3 14.2 15.1 12.7 153.5 143.7 128.4 101.2 92.0 26.0 24.7 21.9 20.8 16.9	23.9 22.4 19.3 17.6 16.7 12.9 23.5 20.3 14.2 15.1 12.7 27.9 153.5 143.7 128.4 101.2 92.0 59.4 26.0 24.7 21.9 20.8 16.9 13.9	1981 1982 1983 1984 1985 1986 Ratio 1981- 1986 23.9 22.4 19.3 17.6 16.7 12.9 18.8 23.5 20.3 14.2 15.1 12.7 27.9 19.0 153.5 143.7 128.4 101.2 92.0 59.4 113.0 26.0 24.7 21.9 20.8 16.9 13.9 20.7

Table 14.PROPORTION OF AGRICULTURAL LOANS TO DEPOSITS,
BANKING INSTITUTIONS, 1981-86 (IN PERCENT)

Source of data: TBAC-ACS Study CB Statistical Bulletin

<u>a</u>/

includes SGBs, Savings Banks, SSLAS

				ght Gua							counte								Progra	<u>98</u>		
rogram				RBs	K A Ba	ill inks	%		S PDBs		RBs	*			KBs	*	PDBs		RBs	X	All Banks	%
GLF	0	0		0				9.6	20.2	3.8	7.9	0	13.4	28.1	9.6	20.2	3.8	7.9	0		13.4	26.1
FSNE	0	0		0				0	0	0		0			0		0 -		0	0		
JF	0	0.3	0.6	0	0).3	0.6	11.2	23.5	21.0	44.1	0	32.2	67.6	11.2	23.5	21.3	44.7	0	•	32.50	68.2
P	0	0	- 	0.99 2	.0 0).99	2.0	0		0.8	1.6	0	0.0	1.6	0		0.0	1.6	0.99	2.0	1.8	3.7
)TAL	0	0.3	0.6	0.99 2	.01	.2	2.5	20.8	43.7	25.6			46.3 ====				25.8		0.99	2.0		100

Table 15. LOANS GRANTED BY LOAN PROGRAM^a BY GUARANTEE AND BY BANKING INSTITUTION, PARTICIPATING BANKS, 1986 (IN MILLION PESOS)

Source of data: Comparative Bank Study Survey, 1987

<u>a</u>/

include combination program but was not included in the table because no bank in the sample availed of the program.

rediscounted. Only 2.5 percent utilized funds from the banking institutions.

VI. BANK ASSESSMENT OF AND EXPERIENCE WITH GUARANTEE PROGRAMS

Data from the Comparative Bank Study Survey 1987 (see Lamberte 1988 and Magno 1988 for details on the study), revealed that only a few banks or branches participate in guarantee programs. In particular, only 17 (31.5%) of the 54 banks interviewed have participated in the program. The most common reason given by respondents, especially KBs and PDBs, for not participating is that there are no borrowers/ applicants in their service area. For RBs, the most common reason given for nonparticipation is that they were not being accredited.

For the participating banks, various problems have been cited. The most common problem cited is the longer time spent in servicing guaranteed loans due to cumbersome and voluminous requirements. Table 16 shows that more man-hours are used in servicing a guaranteed loan than a regular loan. The GFSME revealed the highest man-hour difference among guaranteed programs in servicing a guaranteed loan, an average of 308.3 percent. The least man-hours of difference is observed in the CIP with an average of 20 percent.

The greater man-hour's needed to service a guaranteed loan is mainly attributed to the screening, loan processing and loan monitoring activities. For instance, under IGLF, screening of guaranteed loan's takes 93.6 percent more man-hour's than a regular

Cogram/Activity B/KB5 PDB6 RB5 All Pr Banks (t-test) LLF 3 8 11 Screening 143.3 75.6 8/ 93.6 6.40 Processing 76.7 65.6 68.6 6.90 Credit Investigation 62.5 3.6 33.4 6.01 Loan Monitoring 20.0 99.4 77.7 6.60 Screening 176.7 40.0 8/ 91.2 0.10 Processing 76.7 105.0 94.4 0.70 Credit Investigation 33.3 15.0 94.4 0.70 Credit Investigation 365.7 310.0 308.7 308.7 Screening 176.7 31.2 2/ 70.9 0.02 Screening 176.7 3.1 14.6 6.10 </th <th>LF . of Respondents Screening Processing Credit Investigation Loan Monitoring</th> <th>3 143.3 76.7 62.5</th> <th>РDВ 5 </th> <th>RB 5</th> <th>All Banks 11</th> <th>Pr (t-test)</th> <th></th>	LF . of Respondents Screening Processing Credit Investigation Loan Monitoring	3 143.3 76.7 62.5	РDВ 5 	RB 5	All Banks 11	Pr (t-test)	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	LF • of Respondents Screening Processing Credit Investigation Loan Monitoring	3 143.3 76.7 62.5	8		11	· ·.	
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Table 16. AVERAGE DIFFERENCE IN MAN-HOURS SPENT ON GUARANTEED LOANS AGAINST REGULAR LOANS, BY PROGRAM AND BY LENDING ACTIVITY, SELECTED BANKING INSTITUTIONS, 17 BANKS (IN PERCENT PER ANNUM) loan, 68.6 percent more in loan processing and 77.7 percent more in loan monitoring. Under GFSME, screening takes 91.2 percent more man-hours, 94.4 percent for loan processing and 101.2 percent for loan monitoring. These time differences among activities are statistically significant at a 5 percent level of significance.

Between KBB and PDBB, no Statistical Significant differences among activities were obtained except in credit investigation of IGLF loans and in Screening of QGP loan. In both cases, KBS Spend more time than PDBS.

general, more man-hour's are spent in servicing In а guaranteed loan, in particular screening, loan processing and monitoring activities, due to the following reasons: First, the numerou's requirements and paperwork needed. For instance, feasibility studies, project plans, audited financial statements etc. Second, bank's are mandated by the Central Bank or the Guarantee Board to closely supervise guaranteed loans due to a greater possibility of credit being diverted to other uses. Third, bank's want to be certain that the loan's accepted for guarantee will be approved by the Guarantee Board. Hence, they have to abide by the rules and regulations of the Board. And lastly, banks want to make sure that borrowers will not default on loan's because if this happens, they will be blacklisted by the concerned government agencies, not to mention the potential financial losses. Hence, bank's have to be meticulous in approving guaranteed loans.

Despite the problems encountered by the banks, participation in the programs is still desirable. The benefit most commonly cited by banks is that guarantee programs portray an image of stability to the bank. This is because accredited banks are chosen by the guarantee institutions based on certain rigorous banking criteria. For instance, the accredited bank should have no arrearage's with the Central Bank and that the arrearage's on total loan's outstanding should not be greater than 10 percent. Moreover, the bank should have no deficiencies in reserves on deposit liabilities and should have a sound and efficient management. Given these criteria, the public may perceive that an accredited bank must be a good bank.

VII. A CASE STUDY ON GFSME

This section further discusses the response by lending institutions to the guarantee programs. Here we specifically analyse the factors that affect the decision of financial institutions whether to keep their own funds tied up in the loan (referred to as warehouse) or to liquify their guaranteed loans.

The only available data on which to conduct this analysis is from GFSME; hence, the choice of the program. The data consist of the characteristics of loans guaranteed by GFSME since the start of the program (i.e., February 1984) to March 1988. Among (1) the status of the loan; (2) the type of others are: (3) the location of business; (4) business: the originating (5) interest rate; and (6) loan size. These variables bank: were the major categories of the observations.

The estimating equation is expressed as:

WAREL = f(FISH, LIVESTOCK, PDB, OBANK, LUZON, VISAYAS, interest, loan size, default)

where, WAREL a dummy variable on the banks' decision to warehouse a guaranteed loan where WAREL = 1 if the loan is warehoused and Ø otherwise. WAREL = Ø means that banks' funds are not tied up to the loan. That is, the loan could either be sold to GFSME, prepaid and withdrawn by the borrowers or pending for approval.

FISH and LIVESTOCK = are dummy variables on type of business where FISH = 1 if the loan is invested on fish and marine and Ø otherwise. LIVESTOCK = 1 if loan is on livestock and poultry and Ø otherwise.

PDB and OBANKS = are dummy variable's on bank type of where PDB = 1 if a private development bank (PDB's) and Ø otherwise. OBANK's = 1 if any financial institution's other than KB's.

LUZON and VISAYAS = are dummy variable's on location of business where LUZON = 1 if the business is located in Luzon and Ø otherwise. VISAYAS = 1 if the business is located in Visayas, and otherwise.

Interest = nominal annual interest rate on loans. This
variable is actually a proxy for loan maturity since
interest rates vary not across loans but across time.

Loan size = categorization variable where

1	٤	₽500,000	
2	=	500,001 -	l.ØM
3	=	1.01M -	2.ØM
4	= ·	2.Ø1M -	5 .0 M
5	<	5.Ølm -	8.ØM

default = dummy variable on default where def = 1 if loan
 defaulted, Ø otherwise.

A logit model was used to estimate this equation and Table 17 presents the results.

The type of business is not significant in the model. This implies that banks do not use this factor in deciding to warehouse or not to warehouse the loan papers.

The variable on bank type showed negative coefficients for both PDB's and OBANK though only the coefficient on PDB's ib significant. The negative coefficients suggest that financial institutions except KBs, do not tie up their funds in guaranteed This finding supports the earlier contention that banks loans. consider guarantee programs as a liquidity window. This appears to be the case with PDBs and RBs. In another test of the model, using KBs instead of PDBs, the coefficient for KBs was positive and statistically significant (see Table 18). This means that only KBb, among bankb prefer to warehouse guaranteed loan's. There could be various reasons for this. One possible reason iз have more loanable funds than other financial that KBS

Variable	Coefficient	Std. Error	Prob.
 Constant	9.11394	2.34904	0.000
FISH	0.18638	0.41803	0.656
LIVESTOCK	0.22327	0.43108	0.605
PDBs	-0.14917	0.33616	0.001*
OBANKS	-0.81191	0.55256	0.142
LUZON	109485	0.53876	0.042**
VISAYAS	1.56464	0.57854	0.007*
Interest	-0.56449	0.14365	0.000*
Loan size	-0.21717	0.12744	0.088***
Default	-2.34975	0.94175	0.013**
Log Likelihoo	d ratio = 152.00	3*	
Cases with W	ervations 285 AREL = 1 158 AREL = 0 127		

TabTable 17.ESTIMATES OF FACTORS AFFECTING FINANCIAL INSTITUTIONS'DECISION TO WAREHOUSE A GUARANTEED LOAN (MODEL 1)

Source of data: Magno, M. (1985). An Analysis of the Risk-Reducing Programs in the Philippines. M.A. Thesis. U.P. School of Economics. 1988.

* Significant at 1%
** Significant at 5%
*** Significant at 10%

Variable	Coefficient	Std. Error	Prob
С	9.61490	2.32198	0.000
FISH	0.22879	Ø.41741	0.584
LIVESTOCK	Ø.23477	Ø.43196	Ø.587 [.]
KBS	1.14917	Ø.33616	0.004*
PDBs	-0.35202	Ø.5387Ø	Ø.513
LUZON	-0.37078	Ø.36762	Ø.313
MINDANAO	-1.40362	Ø.5889Ø	0.017**
INTEREST	-0.55406	Ø.14324	0.000*
LOANSIZE	-0.22357	Ø.12734	0.079**
DEFAULT	-2,36582	0.94224	Ø.Ø12**
Log Likelil	nood ratio = 152.87*		
No. of Samp	ples = 285		
Cases w:	ith WAREL=1 158		
Cases w	ith WAREL=Ø 127		
* significa			
	ant at 5%		
*** significa	ant at 10%		

Table 18. ESTIMATES OF FACTORS AFFECTING FINANCIAL INSTITUTIONS' DECISION TO WAREHOUSE A GUARANTEED LOAN (MODEL 2)

institutions. Another is that for KBs, a guaranteed loan is no different from a regular loan which means that all borrowers are evaluated as if there was no guarantee. This implies that the borrowers under the guarantee program are the same borrowers the bank could have lend to even without the guarantee.

The location of the business is also a significant factor affecting the decision to warehouse a guaranteed loan. The positive coefficients indicates that financial institutions prefer to warehouse loans originating from either Luzon or Visayas. In contrast, the coefficient for Mindanao was negative and significant (see Table 18). This finding implies that banks prefer not to warehouse loans ested in Mindanao. One probable explanation for this is the peace and order conditions and the "political instability" in the area.

The other significant factors which affect financial institutions' decision to warehouse a loan are interest rates, loan size and default conditions. All these variables showed negative coefficients suggesting that banks prefer to warehouse small size loans and loans with low interest rates that is, loans with short-term maturity. Similarly, they prefer to warehouse loans which are unlikely to default. These findings seem to indicate that banks warehouse less risky loans.

VIII. CONCLUSIONS

The performance of the credit guarantee programs to date has suggested that the schemes have not significantly improved the amount of credit to agriculture. At the very least, the schemes succeeded in encouraging banks to participate in the program, as by the increase in the proportion of guaranteed loans to shown the agricultural loans of banking institutions, in particular, for commercial banks. However, even this participation of banks is questionable. There are certain indications that banks have seen these programs largely as a source of additional loanable rather than as a risk-reducing mechanism for loans made funds from own funds. This implies that, so far, the program has not in encouraging banks to lend their own funds to the succeeded of the government, in particular to priority sectors Moreover, the greater time spent in servicing a agriculture.

guaranteed loan than a non-guaranteed loan implies that the program did not effectively reduce the cost of lending.

Finally, it is doubtful whether the program can cater to small borrowers or industries. Results show that banks, in particular KBs, favor large-sized loans. Only the CIP among the guarantee programs is able to serve the small borrowers. GFSME, IGLF and QGP seems to have been designed for the fairly large borrower.

IX. POLICY IMPLICATIONS

Credit guarantee programs can only be an effective form support to agriculture and indigenous if industries the of following conditions are met: (1) banks as well as borrowers are willing to participate in the schemes; (2) banks use their own funds for on-lending; (3) the extent of bank participation is not limited to satisfying the requirements of the program or boosting their viability; (4) the program is able to cater to their targetted clientele; and (5) guarantee programs can have however, enough income to cover their costs. The study, demonstrates that so far, the above conditions have generally not This raises doubts as to the effectiveness of the been met. design and appropriateness of their the programs or implementation. Some issues which needs to be considered are: First, it appears that the guarantee programs, like the previous special credit programs, have entailed much administrative work which served as one major drawback. It should be noted that there a trade-off between risk and administrative cost. Τf the is

increase in administrative cost is higher than the decrease in costs, then the effectiveness of the guarantee programs is risk reduced and its attractiveness to lender is diminished. Guarantee programs will only be successful in inducing banks to voluntarily increase their exposure to lending if the overall cost declines. This means that the government should be concerned only with reducing bank not risks but also administrative costs, and in particular information costs.

In addition, it is doubtful whether banks will be 🗉 enthusiastic in participating in programs that increase their transaction costs. For lenders, it is unlikely that they would exert much effort in evaluating loan applicants carefully or have a different criteria for lending to borrowers under the guarantee program. Most likely they will still evaluate all as if there was no guarantee. This implies that the borrowers borrowers accepted under the guarantee program are possibly the borrowers to which they would have lent to anyway same even without the guarantee. Therefore, enhancing borrowers' credit wor'thiness should also be taken into consideration rather than simply reducing lender's risk of non-repayment. Lenders can device various ways to take care of risk and collateral is one of Banks can simply adjust collateral requirements to take them. care of differences in the riskiness of investments.

On the borrowers side, it is also unlikely that they will be willing to participate in programs with high transaction costs. If they want to participate, they are most likely the high risk borrowers to which banks would not lend to anyway.

A second consideration is the issue on accreditation. There seems to be a conflict with the criteria for accrediting banks and the guarantee program's aim to cater to small borrowers or rural-based industries. Accreditation criteria particularly on arrearages are rigorous such that only commercial banks are most likely to meet them. It is generally known that commercial banks are more familiar with the large urban-based industries. Τn contrast, rural banks are generally more familiar with agriculture and rural-based industries, yet they are least likely to be accredited. It is not surprising therefore, that most loans under the guarantee programs are fairly large-sized loans since most of the accredited banks are commercial banks. Except for the Crop Insurance Program, only a few rural banks, are accredited. Hence, for credit programs to really cater to cottage and small industries as well as the poorest and smallest farmers, rural banks should be tapped as the main conduits of the program. And for this, the rehabilitation of rural banks becomes absolutely essential.

On the other hand, the accreditation of most commercial banks is in line with the guarantee scheme's "learning" objective, which is for banks, in particular KBs, to become acquainted with lending to the priority sectors with the expectation that they would be more inclined to make loans even

without the guarantee. But this can only succeed if banks would consider the guarantee schemes as risk-reducing mechanisms and not a liquidity mechanism. This means that banks should consider the "guarantee" as an "add-on" to the borrowers credit worthiness.

A third issue arising from the credit guarantee schemes is question of sustaining the viability of the guarantee the programs. The details of the scheme, i.e, the level of guarantee fee and risk-sharing should be designed with the intention that fees and other income will cover all costs arising from both the administration of the schemes and claims. For instance, the guarantee fee should appropriately reflect the risk involved in financing different investments. A fee lower than the "true risk" will jeopardize the viability of the fund, since claims and administrative cost would exceed the available funds. Further, it would also cause delay in payment of claims which would undermine the credibility of the guarantee institutions. On the other hand, high fees will likely limit the participation of both banks and borrowers.

Finally, the generally negative results of this analysis should not be surprising. Policymakers in many countries frequently seize on the idea of credit crop guarantee and insurance schemes to stimulate the expansion of agricultural lending. Yet the analysis of the experience of many countries that guarantee suggests program contribute little to additionality in lending (Biggs 1986, Levitsky 1987) and crop

insurance program are generally not self-supporting and require large amounts of subsidy (Hazell et al. 1986). The experience of countries suggest that governments may have other 🐰 these objectives in mind besides the narrower economic areas implied In some cases, they may have wanted to increase bank here. In other cases, they may have wanted to provide earnings. welfare and to borrowers in time of distress or with permanent income transfer to them. The question that must be asked is if these guarantee and insurance programs are the most costeffective way of achieving these goals.

These results demonstrate the difficulty of effectively "pushing" credit to priority sectors. Rather than spending so many resources over the years in interest subsidies, rediscounting schemes and now guarantee schemes, one wonders if more wouldn't have been accomplished if the same resources would have been spent on removing the obstacles that discourage the lenders from serving this clientele, such as the lack of information about expected commodity prices, poor or non-existent information about the indebtedness and post repayment record of prospective borrowers, underdeveloped markets for farm inputs and output.

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