Table 3

Factors Affecting Single Individual's Choice to Migrate:
Philippines, 1965-1973

Variable	Males	Females	Females
AGE	0.000 (0.003)	-0.008 (1.299)	-0.008 (1.343)
EDUC	0.031 (3.943)**	0.037 (4.624)**	0.037 (4.626)**
vine bms nem are	0.017 (1.975)*	-0.000 (0.007)	e olanka Polyaci
HHSIZE	-0.033 (3.032)**	-0.025 (2.490)**	-0.025 (2.490)**
EXING TOSSETTORING	(2.684)**	0.012 (0.296)	0.012 (0.304)
KINS	0.796 (8.814)**	1.186 (18.954)**	1.186 (18.954)**
RES65 The fact of the case	0.067 (0.975)	-0.020 (0.315)	-0.020 (0.316)
MUNI73	0.011 (0.521)	0.073 (3.418)**	0.073 (3.420)**
Constant	-1.066 (5.531)	-1.254 (6.556)	-1.254 (6.664)
-2 log λ	162.644#	482.324#	482.324#
Observations	1739	1902	1902

Note: Figures in parentheses are asymptotic t-ratios.

rangeain from inch

<sup>\*\*</sup> Significant at 1 percent level.

<sup>\*</sup> Significant at 5 percent level.

Significant at 0.1 percent or better (8 and 7) degrees of freedom for regressions 1 and 2, respectively).

slight tendency out of agriculture, and those who choose to leave are clearly drawn to the cities. Finally, discarding OCC65 which is completely insignificant for females has no practical consequence on the stability of the other yariables (regression 2 in Table 3).

### Be Some Effects of Migration to an additional and

aristicates and to the core effects

(This section attempts to assess the joint (or sequential) effects of migration with (or on) income and occupation (employment) at destination. Although income and occupation are correlated, both are included in the analysis on the hypothesis that the reciprocal effect of each with migration as well as the effects of the exogenous variables on each may be different. It may be argued, for example, that potential migrants are likely to be more sensitive to upward occupational mobility than to income mobility.) Furthermore, the "job vacancies thesis" contends that a high income is meaningless to a worker if there is no suitable job opening (Parnes, 1954). 12

in rapaling and the magnesium of the training seconds will

A practical reason may be added in that the 1973 NDS income information is felt to be not very good, although the way it is broadly coded as a dichotomous variable for our purpose should minimize its deficiencies.

The analysis is based on a joint probability model as specified by simultaneous equations (2) and (3) above, which assumes the following: (a) all interaction effects of order higher than two vanish; (b) the second-order interaction effects are constant, independent of the values of any of the exogenous variables; and (c) the main effects are linear functions of the exogenous explanatory variables used in the preceding section (see Nerlove and Press, 1973: 71-81). The results are displayed as bivariate interaction in addition to exogenous effects, in Tables 4 to 6.

Table 4 presents the parameter estimates for all persons, separately for males and females. The bivariate interactions of migration (MIG) with income (INC72) and occupation (OCC73) at destination for both males and females appear negligible. The coefficients for the males imply that migration has at best a slight positive effect on income and occupation and, at the same time, is mildly influenced by the prospect of high income and occupation; for the females the interactions are likewise low but in the opposite direction. A comparison of the effects of the exogenous variables in Table 4 with those in Table 1 reveals that they are hardly altered after said endogenous interactions are isolated, except that for female OCC65

Table A

Relationships between Migration, Income, Occupation as Endogenous Variables; and the Exogenous Variables; All Persons—Philippings 1965-1973

which becomes significant. It seems that the drawing

powers of INC72 and OCC73 on MIG of both males and females Stoodare picked up by MUNI73 which is generally supposed to be stall 880.02 proxy for size of the babor market reflecting better (0.321) (0.178)(0.952)occupations and incomes. 0.707 (0.321)(5.781)\*\*\* (0.952) (9.927) \*\* the bivariate interaction of income (5.781)\*\* and occupation is appreciable for both male and female Table 4 further demonstrates the impacts of regressions. (6.085) 44 (2.030)\* exogenous variables on income and occupation. The impacts of AGE, EDUC, and OCC65 are positively significant for panno 0.073 0.092 male and female INC72 and OCC73 RES65 has an important 000.0 DAIL! positive influence only on male INC72 and OCC73. (1.545)(9.822)(4. 185) 44 con exerts a negative effect on OCC73, respecially for female 301238 (3.474) (9,961) (0.904)(2.132)\*\* (0,073)migrants. 0.839 0.078 -0.053 \*\* (2.6.0) (C.SPI) (0.383) (16,455) (0.755) (0,469) 5.35 A noteworthy finding is that kinship hardly affects the migrant's income and occupation at destination (\$18. although it seems extremely influential in the prior deci--I.306 HEO.O. 0.133 sion to come. It seems logical that, ordinarily, kins do -not have influence in the sphere of job placement. Further, Observations 2085 the low positive coefficient of KINS on INC72 and low nega-Her: Freures in parentheses are asymptotic teration tive on OCC73 may mean that financial assistance from relatives depresses to some extent the incentive to look for a like T-rest for W.S. - Wagelineed. Smoone Bashook do paldarius is that all multiplicative acgenous coefficients vanish vineltaneously; the value is asymptotically distributed as y with 27 degrees of freedom

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Table 4

Relationships between Migration, Income, Occupation as Endogenous Variables, and the Exogenous Variables: All Persons--Philippines, 1965-1973

Bivariate		MALES	Have L. V.	DAR 310	RRMAT	TW CO
Interactions	MIG	Les INC72	OCC73	THE MIGHT	FEMAL INC72	E S
MIG 15333d	noxibal	10.016 (0.321)	0.009	2 10 0825	-0.075 (0.952)	7 0.0 (0.8
INC72	0.016 (0.321)		0.280 (5.781)**	-0.075 (0.952)	as cortag	0.7 (9.9)
	(0.009ida (0.178)	8190.280918 (5.781)**			0.707	
Exogenous	1.18	tor both	9 fda kon te	700 81-90	1 14600 55	
AGE to stonged	-0.006 (0.823)	0.038	10.014 (2.030)*	(2.105)*	0.043 (4.653)*	
EDUC	0.042 (3.899)**	0.071 (6.669)**	0.133 (11.104)**	0.022	0.141	0.10
)CC65	0.056 4.156)**	0.073 (5.593)**	0.092 (6.290)**	0.022 (1.790)*	0.040 (2.415)*	0.13
	0.030	(0.070)	-0.098 (1.706)*	-0.054 (1.545)	-0.056 (0.822)	-0.24 (4.38
	0.048161: 3.474)**	(0.941)	-0.012 0.004)	1-0.029 (2.832)**	0.001 (0.073)	0.00
	0.839 9.614)**	0.078 (0.571)	-0.053 (0.383)	1.052 (16.455)	0.116 (0.755)	-0.05 (0.46
(	0.218; 2.612)**	(2.666)**	0.217 (2.443)**	-0.184 (2.787)**	(0.586)	0.08
	0.077	0.004 (0.134)	0.008	0.086 (3.835)**	-0.017 (0.348)	0.029
osp.	1.306 4.502)	0.038 (6.085)	0.133 11.104)	-1.254 (5.847)	0.043	0.10
2 log λ 51 bservations	4•677 <sup>#</sup> 2085	संक्ट्रीट कर	्त्र का न	540.773 <sup>#</sup>	baye	don -

Note: Figures in parentheses are asymptotic t-ratios

<sup>\*\*</sup> Significant at 1 percent level.

<sup>\*</sup> Significant at 5 percent level. the strong of sasser h

Like F-test for OLS, -2 log likelihood ratio tests the null hypothesis that all multiplicative exogenous coefficients vanish simultaneously; the value is asymptotically distributed as  $\chi^2$  with 27 degrees of freedom and is significant at 0.1 percent or better.

Table 5 Again, the likelihood ratio test shows that the - Related and bedween tiers at the and from the countries of combination of explanatory variables is significant at dougekold Hards- inclinition, 1965-1943 the 0.1 percent level or better for all regressions.

Table 5 shows that for male breadwinners (household heads) alone the mutual effect of migration and occupation is appreciable; for their female counterparts, it is insignificant and negative. The exogenous coefficients are only slightly reduced from their levels in Table 2. It appears that while for male heads a specific occupation at destination is more important than the size of the HT.A-110.0 anti liava. A. destination (MUNI73) itself, for the women the reverse is true; that is, landing a suitable occupation is relatively difficult for women, and this is why they are attracted (13%.) to large cities with a variety of possible occupations, probably in the service sector. 27113

As in Table 4, the bivariate interaction between CE2E : 03 .... OCC73 and INC72 is significant, and INC72 is positively affected by AGE, EDUC, and OCC65 for both male and female heads. Unlike in Table 4, OCC73 of males and females is (12.5) (7,479) (2,572) not a function of AGE but mainly a function of EDUC and OCC65. Again, the KINS factor barely affects the INC72

181.6-

and OCC73 of the men and the OCC73 of the women. Female

Al arm emota

Table 5

agaza, the likelihied ratio test shows that the Relationships between Migration, Income, Occupation as Endogenous Variables, and the Exogenous Variables: Household Heads--Philippines, 1965-1973 the 0.1 percent level of sector for all regressions.

Bivariate Interactions	·MIG	MALES INC72	OCC73	MIG	FEMAL INC72	E S
100	nerina, i		3 1 12 7 01	H DROL	( sac. d +	1 77
MIG ,i , PJ1	counterns	0.053	0.137	preciable	or. 0:083	TO -0.
INC72 (19 19 19 19 19		(00071)	(T. 330) x		(0.878)	(0.
	(0.617)		0.167 (2.138)*		ttinai a.	0.
OCC73 . 5 5 6 d i	0.137	0.167	mort hone	(0.878)	ila vian .	(5.
occupacion			w am mal	-0.035	0.470	
Exogenous				(0.420)	(3.684)**	* 3 3
AGE		3 06-03 30		ton 23 no	irenticat	14
a. Pagava		0.017		-0.018 (2.415)**	0.023	-0.
44-VJ53-51	(2.292) **	0.094 (5.509)**	0.162 (7.479)**	(2.477)*	0.132	0.0
CC65 OSTORY	0.022 (0.905)	0.053 (2.692)**	0.065 (3.084)**	-0.025 (1.281)	0.006 (0.280)	0.0
HSIZE	-0.037 (1.155)	0.012 (0.572)	0.042 (1.518)	-0.021 (1.091)	-0.034	-0.0
INS	0.797 (3.931)**	0.123 (0.470)	0.001 (0.004)	0.905 (6.923)**	-0.464	-0.0
	-0.141 (0.615)	0.230	0.374 (1.763)*	-0.175 (1.416)	0.242	-0.0
stage he	-0.001 (0.030)	0.010 (0.239)	-0.095 (1.748)	0.131 (2.484)**	-0.067	0.00
onstant	-0.014 (0.027)	0.017	0.162 (7.479)	-1.156 aki	0.023	0.09
log λ 3	55.354	ong rate		(2.572) 322.102 <sup>#</sup>	(2.131)	(5.6)
servations [ 4	(1 <b>5,83</b> ) 1 1 F	y-sand :	ej <del>e</del> ni u.	560 . ni		-

Femal agrees of to every See note to Table 4. Degrees of freedom for both male and female regre INC72 is apparently depressed by KINS, maybe because kinnelationahips between therei ship aid is somehow a substitute for the female heads' own Sinele Fergons--Philippines, 1965-197 income.

AND A THE STATE OF Finally, Table 6 demonstrates that for single persons MIG and OCC73 are more clearly mutually dependent, although the dependence is negative for females. The coefficients of MUNI-73 illustrate again how the size of desti-RECEOUND. nation is critical to female migrants but not to the males (2,697) ## (5,6A3) ## who are more concerned with specific employment (OCC73). Table 6 again illustrates the lack of interdependence as war(sar, e) (0,079) between migration and income, lending support to the "job 57 L C 0,225 EAD.D vacancies thesis" cited above, and suggesting that potential migrants tend to be more responsive to occupational than to COO, o income mobility 0.00 and TIO, of the Sept Out the ASO, Own (2,279)\*\* (0,384) (1,278) (125,0) m (187,0)

281.0-The same exogenous variables are significant for single migrants as in Table 3. And, as in Tables 4 and 5, AGE, EDUC, and OCC65 are important determinants of INC72. (0,18H) = 8 = (0,954) OCC73 is positively determined by AGE for single women but 121,102 land 0,968 nee n,95% (100, only mildly for men. EDUC is extremely important for the 1-1-11 956.590 OCC73 of both, as expected. Finally, kinship has at most a moderate negative effect on the single person's income and occupation, implying some substitution effect. the east to the flegeres of the top the term of the east of the colors of the the

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tor transfer del, age 14 tot 140 and coc73 segregators, and also the tor 

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Table 6

Relationships between Migration, Income, Occupation as Endogenous Variables, and the Exogenous Variables: Single Persons--Philippines, 1965-1973

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. spesse

Bivariate Interactions	MIG	MALES INC72	0CC73	MIG	FEMAL INC72	E S
dopendent, Time coef-		0.029	0.118 (2.667)**	rian ins	-0.033 (0.544)	-0.(
INC72	0.029	or urras	(6.643)**	I TRANS	te namet:	
Exogenous	(2.667)**	(6.643)**		-0.084 (1.603)*	a el noi. Tom jun :	er.
11.	(0.079)	0.036	( /	-0.006 (1.064)	0.068	0.0
delineron re	0.024 (2.355)**	0.083 (7.997)**	0.174 (14.132)**	0.043	0.269 (12.205)*	0.1
od anda Las	0.016 (1.590)*	0.041 (4.327)**	0.048	ed of Da	es eseas	
HSIZE	-0.034 (2.279)**	-0.005 (0.384)	0.017 (1.278)	-0.025 (2.766)**	(0.241)	0.0
INS TOT JEES	0.808 1(8.803)**	-0.007 (0.055)	-0.199 (1.356)	1.182 (19.386)**	-0.133	-0.1 (1.2
ES65	0.068 (0.830)	0.094 (1.191)	0.234 (2.673)**	(0.348)		(0.0
UNI73A TOTAL	0.015	0.044 (1.614)*	0.034 (1.135)	0.073	-0.026 (0.791)	0.0
onstant	-0.806 (2.878)	0.036 (5.142)	0.174 (14.132)	-1.402 (7.004)	0.068	0.0
2 log λ bservations	954.590 <sup>#</sup>	. (ilan)	beasen	934.598#	928.184#	934.5

Note: Dash (-) for female bivariate interactions indicates nonconvergence. Salso note to Table 4. Degrees of freedom for male regressions are 24; for femeales d.f. are 14 for MIG and OCC73 regressions, and also 14 for INC72 regression (with the other MIG regression not shown).

## V. CONCLUSIONS AND IMPLICATIONS

on migration decision regardless of whether This paper has attempted to learn about migration behavior by applying the logit model to individual and household data from the Philippine National Demographic Survey of 1973. The approach is deemed appropriate for the type of question investigated which considers migration decision as a qualitative choice.) The present analysis may, therefore, be regarded as an improvement over the usual approach that uses aggregate population and areal data to deal with a behavioral aspect of the individual and household. We have examined migration choice at three levels, viz. the individual, the household head, and the single individual, separately for males and females. We argue that the findings of the study provide had baba a more direct and firmer quantitative basis for some consmention (distributed) clusions about migration behavior that have been appreciated from a theoretical standpoint and from previous and the rank and empirical investigations, as well as for others that have been less obvious. Having in mind the limitations of the data, the major findings may be recapitulated as follows:

> 1. Age has a retardative effect on moving, more on the female individual than the male, and on both male and female household heads, but virtually no effect on single persons.

- on migration decision regardless of whether

  or not one is a household head, but slightly

  more for males; to the extent that the educa
  tion effect includes an information effect,

  it mitigates the distance effect.
  - only for males in general and for single males; along with education it may be seen as a key preparation for the competitive male labor market.
- 4. On the whole, expected income does not seem

  to be an important consideration for the

  choice to migrate; for male migration, pro
  spective employment or occupational mobility

  at destination appears to be the more serious

  consideration-lending some support to the

  "job vacancies thesis."
- decisive factor in the choice to migrate

  (especially for women), implying that kins

  furnish potential migrants with needed

. Sat the price of a first in-family

sources of psychic benefits and financial

- 6. Household size appears to exert a restrictive effect on household migration; individual migrants seem to be averse to dwelling in large households with non-immediate relatives although they may rely on these relatives for outside help.
  - the implications for policy? First, migration policy Individuals exhibit a clear propensity of should take fairs account now colly same ego, and mortifal moving out of agricultural surroundings, less al this is even algreet reducits only the factor so for household heads particularly male or as howarehaltes, taxonal, to the extent that heads; the destinations are likely to be (an Hausr up or Chr. secondarry lawed). in a sovernmentlarge urban centers, especially for female uppnasaci commonices ic den de made a key polic migrants who are not so much concerned with thingur meducaling that quemerity, the bype of education can a specific income or occupation as with the on modbridge in a singlish way that it is being revised to variety of occupations (probably service is threemantional shall enorms; for example, the sector) that are available in cities. dustines by the day of the entreaction connects the religions.
  - 8. The male migrant appears to fare well in terms of occupational status at destination but not the female migrant.

function of age, education, and prior occupa-

mobility also depends on education and preswitchment a trave of present exceptions of the property vious occupation, but age may be a disadvantage tablished included by the leading to the property for household heads.

migrants seem to be averse to dwelling in

In general, personal attributes are more significant in the decision to migrate than external factors which have been stressed by previous studies. What are the implications for policy? First, migration policy should take into account not only sex, age, and marital my out of agricultural surroundings, lens status but also whether people move as single individuals or household hos a parcicularly make or as households. Second, to the extent that education the destinations are likely to b (at least up to the secondary level) is a governmentrge arran ce ters, expecially for female sponsored commodity it can be made a key policy instrument. signants who are not or such concerned with Without reducing its quantity, the type of education can a specific income or organism on with the be modified in a similar way that it is being revised to ar bey of occupations (archably service stem the international skill exodus; for example, the sector) that are evaluated in cities dominant "urban bias" in education content may be reduced. Third, it is apparent that potential migrants are more likely to heed information from kins than government propaganda; in this sense, government resettlement programs in past, for instance, have failed (Simkins and Wernstedt,

1971). This suggests that government information on resettlement schemes may better be coursed through kins than comminicated directly to potential migrants. Fourth, since males are not necessarily prone to move out of agricultural areas into large urban centers, they may be drawn to alternative destinations provided that suitable employments (not necessarily incomes) are available. Fifth, urban renewal programs (e.g., squatter relocations) have largely failed because they have disrupted the vital kinship matrix. Lastly, the occupational bias against female migrants in cities deserves critical review.

The above implications are broad and probably tentative. They may be considered as hypotheses that deserve more in-depth investigation. The kinship role, for example, should be further analyzed. How specifically does it effect subsequent migration? What is timing of such chain migration? How can kinship ties be made a vehicle for public policy? The education effect is another worthy subject. What is the extent of the migration bias or urban bias in educational content? On the issue of female occupational bias, one may ask: why are female migrants less fortunate than their male counterparts despite the similarity in educational level; to

what extent is the bias due to the migrant status vis-à-

Apart from these specific questions, the approach lava to the average of Adopt villabataons and are eather in this study may be used to examine particular streams, are into large when contern, they had by drawn to citare e.g., rural-to-rural, rural-to-urban, rural-to-metro, Pincavolosa adderina cari hashvarn ansignaharah metan urban-to-rural, etc: It may also be worthwhile to try it constrily incomes are available. Pilich, orhan on the question: what are the determinants of the probeda (a.c., aduation releasion) have targely ability that a migrant will remain at destination (stable vidante Inago wer becourse it was was approached he migrant), move somewhere else (chronic migrant), or alternational and analternation and . return to place of origin (return migrant)? Additionally, eigrants in childs asserbed evillent graffer. marriage, fertility, and education at destination may be included as endogenous variables. Finally, more may be learned about migration behavior if the approach is applied to similar survey data from other countries, e.g. Southeast Asian countries, to study comparative individual and household migration.

such whole aigustion? How cas binuity this be cade of vehicles for public polity? The constitut of the circust of another voters and foot. That is the astent of the circust the circust of the circust of the content of the circust o

# APPENDIX

Code Used

#### OCCUPATIONAL CATEGORIES AND CODES

	OCCUPATIONAL CATEGORIES AND CODES
Code Used	ng , and Images Description 279 Taggu EI
	physicians, Lawyers, C.efryper,
0	Not applicable (includes unemployed)
1	Farm laborers, miners, quarrymen
2	Farm owners, managers, mines foreman
3	Fishermen, loggers
4	Unskilled (non-farm): packers, laborer NEC's (not elsewhere classified)
5	Service: janitors, barbers, housekeepers, launderers, market vendors, service station attendants, waiters, service NEC's
6	Skilled (lower): furnacemen, carpenters, millers, bakers, craftsman, spinners, foot-wear makers, potters, chemical workers, tobacco preparers, lifting equipment operators, firemen, ship crews
7	Transportation and communications: drivers, conductors
8	Skilled (upper): tailors, precision instrument operators, machinists, electricians, compositors, painters, bricklayers
9	Sales workers: proprietors, commercial
	travelers, salesmen
at 10 30 o	Clerical and related: bookkeepers, steno- office machine and telecom operators, clerical NEC's, mail carriers, policemen, inspectors
11	Administrative: government officials, directors, armed forces

Code Used	Description	
12	Lower professional: teachers, nur technicians, artists	ses,
13	Upper professional: chemists, prophysicians, lawyers, clergymen, so scientists, engineers, pilots	fessors,
( )	wor after the translater upumploye	Ü
	Faym laborers, minors, queryynen	f.
Dichotomous	Fare outers, managers, mines torna	1 E
	nasharman, losser	C
8 108 0 0000d	Blue-collar: codes 0,1,2,8	4
nolitoit o	White-collar: codes 9,10,,13 soud and according soud and soud according soud according a	
rs, foot, same	Skilled (jewer); furnacemen, carpoilists, eathers, rraftemen, apinne west makers, potters, therapolesi vor tobacco properers, iffering equipment firemen, ship erous	
delyers,	Transperention and communications:	٢
ersioi	Philips (upper); cailors, pracisi mest aperators, machinists, clett sameositors, painters, brickleyers	8
16167	Selag workers: proprietors, common travelors, salesmon	

Note: See Bacol (1971:194-196) for a discussion of this occupational classification scheme.

Administrative: gryormmep: officials, directors, armed toress

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