EMPLOXED FEMALES BY GLASS OF WORKER A 195641973 A OCTOBER ROUNDS (Glin thousands except percent)

Ţ	Waily Worker	ge and Salar	zempleyed	If-Employed	Loc Unpa	id Family Worke
	Percent of	Percent of	Fercent of	Percent of	្រូវរូប្រាជា	Percent of
Year	bryoloma Noga	Total Employ	rediam No.	Total Employed	No.	Total Employe
Phil:	ippines					hilippines
1956	863	7a 531.3	4.Sc 937	34.0	932	33.8 × 356
1957	7 Ar 965	33.9	848	29.8	1016	35.7
1958		31.7	841	29.8	1073	38.0
1959	954	32.7	926	31.7	1028	35.2
1960	986	35.0	851	30.2	961	34.1
1961	1173	37.1	892	28.2	1085	34.3
1962	1222	36.1	883	26.1	1266	37.4
1963	1246	35.7	986	28.2	1253	35.9
1965	1307	39.7	902	27.4	1063	§ 32.3
1966	1467	39.2	915	24.5	1343	35.9
1967	1478	38.8	1011	26.6	1313	34.5
1968	1393	40.9	1045	30.6	948	27.8
1971		42.3	1120	⁰ 27.5	1121	29.9
1972	(Nov.) 1661	41.7	1127	े28.3	1188	29.8
	(Nov.) 2033	44.4	1012	22.1	1533	33.5
Avera	age 🦂 👵	37.4		28.3		33.9
Urban	-	* y *			, с	
1965	696	61.8	283	25.1	136	12.1
1966	756	60.3	301	24.0	194	15.5 da
1967	72 9	61.9	295	25.0	152	12.9
1968	827	63.3	341	26.1	124	9.5
1971	∂. (££ 966	64.0	368	24.4	171	11.3
1972	1026	66.3	376	24.3	146	9.4
1973	1227	68.7	376	21.0	182	10.2
Avera	ige	63.8	·	24.3		11.6
Rural				*.	9 .50	.),*.
1965	611	28.2	620	28.6	927	42.7 EV
1966	712	28.6	614	24.7	1148	46.1 %
1967	746	28.4	716	27.2	1161	44.2
1968	566	26.9	704	33.5	823	39.2
1971	759	29.5	752	29.3	1050	40.9 16
1972	- 635	26.1	751	30.8	1042	42.8
1973	806	28.8	636	22.7	1351	48.3
Avera	ige	28.1	. *:•	28.1		43.5

Source: National Sample Survey of Households (NSSH), previously called the Bureau of Census and Statistic Survey of Households (BCSSH) and, earlier, the Philippine Statistical Survey of Households (PSSH).

3.5 5

:: .

35.5

i) a strong i Sample French (courte) (sell) processor and a citact to the formation of a courte court of the formation of a court of the courte of the sell (PSSE).
and the first the First space of the courte of the sellower of the sellower.
2) Commune (10.3).

of employed females in urban areas. The opposite is true for rural areas where unpaid family workers comprise 45.3 percent of employed females, the self-employed, 27.9 percent, and wage and salary workers 25.6 percent.

The October data (Table 1.17) show similar time trends as those for May. When overall averages are taken, however, the October series shows the largest average share going to the class of wage and salary workers (37.4 percent) and the class of unpaid family workers with the second largest share (33.9 percent). For May, unpaid family workers have the highest average share (36.8 percent) and wage and salary workers are second (33.5 percent).

Absorption of female workers into the major industrial groupings is shown in Tables 1.18 and 1.19. Of the ten industry groups cited, agriculture has consistently taken the largest share of the female labor force, averaging 38.8 percent for the May series. This share, however has been declining over the years starting at 44.5 percent in May 1956 and going down to 39.2 percent in May 1974 and fluctuating to as low as 31.4 percent in 1970. The second largest share went to the manufacturing sector, accounting for an average

PERCENT DISTRIBUTION OF EMPLOYED FEMALES BY MAJOR INDUSTRY GROUP 1956-1974, MAY ROUNDS **TABLE 1.18**

																						r	
Personal Services			3.5	3.7	4.0	3.4	3.5	3.3	4.0	3.9	4.3	3.0	3.1	3.6	3.5	7/2	3.1	2.6	3.1	3,5	3,3		
Domestic Services			7.8	0.6	7.6	0.6	8.6	10.0	8.2	9.0	11.7	10.7	11.1	9.3	12.3	2/	13.4	11.9	13.7	11.8	9.7	*: .	e eng
Gov't Community, business & recreation	services	7.5	4.0	4,5	4.2	6.4	5.7	5.6	6.4	5.8	7.1	6.8	. 6.9	7.6	9.3	2/	11.1	6.6	11.7	11.3	6.7		
Transport, storage & communication	547	T.	0.1	0.2	: ; d	0.1	0.3	0.2	0.2	0.2	7.0	0.3	0.3	0.3	0.4	0.3	7. 0	0.3	0.5	7.0	0.3		
amerce.	V	5	15.5	18.8	17.2	18.3	17.6	17.0	18.6	20.0	18.9	20.0	20.2	20.0	18.7	12.0	21.4	23.4	23.6	18.7	18.9)	ņ
Construc- tion	1	•. - /-	T.0	0.1		*	*	T 0	٦. 0	10 10 0	ે જે	et ./	, et	ದ	ď	.: 1:0 ₩	*	0.1	0.2	0.1	*	,	
Elect., gas, water and sanitary services		į + 3	*	*	1/	 ★	**,	*	0.1	*	e 1	ਹ ਾ ਂ	rd	d 397	d	* 1	* \$.7	0.1	0.1	0.1	* ()	OF C	***
Manufac- turing			22.6	25.6	23.0	21.6	22.9	19.1	20.6	20.5	19.2	18.3	17.8	16.7	17.6	19.4	17.4	16.4	15.4	14.8	19.4		· .
Mining & Quarrying			0 :1	46 }	1	*	0.1	გე: *	*	કી * ′	· łơ	or or other states of the stat	rds .	ਾ ਹ	to	0.1	0.1	0.3	0.2	0.1	*		•
Agri- culture		- :	44.5	36.8	41.2	42.1	38.8	9.44	43.1	40.2	38.1	39.6	40.0	41.7	37.9	31.4	32.6	35.0	31.6	39.2	38.8		0.1%.
Year		Philippines	1956	1957	1958	1959	1961	1962 (April)	1963	1964	1965		1967	1968	. 6961	1970	1971	1972	1973	1974	Average		*Less than 0.1%

^{1/}Mining & quarrying (both male & female) combined with Electricity, gas, water & sanitary services (both male & female). They numbered 21 and 23 thousand respectively for 1958. arotal too small to show distribution. **Less than 0.5%.

^{2/}Gov't, community, business and recreational services; Domestic services and Personal services were combined as Services National Sample Survey of Household (NSSH) previously called the Bureau of Census and Statistics Survey with a total number of 1:081 females or 27.5% of total employed. Sources:

of Household (BCSSH) and earlier, the Philippine Statistical Survey of Households (PSSH). Census (1970)

PERCENT DISTRIBUTION OF EMPLOYED FEMALES BY MAJOR INDUSTRY GROUP 1956-1973, OCTOBER ROUNDS

TABLE 1.19

•	Personal Services			,	7	0 0	4.0	2.6		1.0		7.4		, ~	4.0	7 . 6	t 0	3.2	
CONDON WEEDS	Domestic Services		ļ.	8		, «	ο α •	7.6	10.0	9.2	7 00	13.1	11.2	11.1	12.5	14.0	13,3	13.7	0
WII.	Gov't com- munity, business & recreational	services		4.8	8.4	5.0	5.2	5.3	8.9	. 6.3	6.5	7.9	8.2	8.2	10.6	12.7	11.8	12.2	7.8
8	Iransport, storage & communi- cation			0.2	0.1	0.3	0.2	0.2	0.1	0.2	0.2	0.3	0.3	0.2	0.5	0.5	0.5	7.0	0.3
	Commerce		-	17.0	16.4	15.3	17.1	15.9	16,3	16.1	17.8	19.9	18.1	1/.6	20.1	21.6	21.5	18.5	17.9
	Construc- tion	A con		a († (* •	ĸ		0.1	* (U.U	K +	k -	к [*]	., .,	; · †	٠ ٠٠		7. F	١٠٥	*
Elect. gas.	er e tar vic		,	₹ •		71	! 4	, -	-` -×	: ,. .+	: +	: - *	. 0	- *		T -		7	*
	Manufac- turing		22 1	22.4	10.0	20.7	, o	7 61	17.9	18.7	17.2	17.2	17.2	17.3	15.5	6.71	13.0	, 0.	18.4
	Mining & Quarrying	14 T		1	1/	i *	i i	1/	 *	. 1	*	*	0.1	*	0.0	0.1	0.0	*	:
	Agri- culture	*R*	€ 4 1. 8	42.7	47.7	44.2	42.5	43.7	47.0	6.44	37.4	40.7	42.2	34.1	31.7	34.5	38.5	6 07	
	Year	Philippings	1956	1957	1958 (Nov.)	1959	1960	1961	1962	1963	1965	1966	1967	1968			1973 (Nov.)	Average	0

⁻ None reported in sample households.

^{*} Less than 0.05%.

 $[\]frac{1}{2}$ Mining & quarrying (both male and female) combined with electricity, gas, water and sanitary services

National Sample Survey of Households (NSSH) previously called the Bureau of Census and Statistics Survey of Households (BCSSH) and earlier, the Philippine Statistical Survey of Households (PSSH). Source:

share of 19.4 percent of females employed. sector's share has likewise been declining. Coming in a close third with an average of 18.9 percent is the commercial sector, whose share in total female employment has been increasing. Actually, the commercial sector's share has been larger than that of the manufacturing sector since May 1966 (except in 1970), and in May 1974, its share was 3.9 percentage points larger than that of the manufacturing Surprisingly, the next most important sector sector. was the domestic services, which in 1974 accounted for 11.8 percent of total female employment. Government, community, business and recreational services accounted for 11.3 percent in the same year and has shown the largest growth over time, having started with a mere 4.0 percent share in 1956. Personal services accounted for 3.5 percent of female employment and the remaining four sectors - transport, storage and communication; construction; electricity, gas, water and sanitary services; and mining and quarrying - seemed to have remained almost exclusively male industries.

The October series showed the same general patterns of distribution by industry, with average shares slightly higher than in May for agriculture and

the three service sectors. Manufacturing and commerce had smaller shares in October while the remaining sectors showed no observable differences.

Finally, Tables 1.20 and 1.21 show the shares in total female employment of the major occupational groups. In May 1974, the largest share among the occupations went to the group of farm workers (39.0 percent), followed at a distance by sales workers (17.2 percent), service, sports and related workers (14.9 percent), craftsmen, and production process workers (13.8 percent), professional technical and related workers (8.7 percent) and clerical workers (5.1 percent). Executive, administrative and managerial workers comprised an insignificant 0.7 percent of the female labor force and the remaining three occupational group-miners, workers in transportation and communication, and manual workers - had even smaller shares.

Over the period from May 1956 to May 1974, increases were observed in the shares of professional, technical and related workers, clerical workers, sales workers and service, sports and related workers.

Administrative, executive and managerial workers, farm workers, and craftsmen and production process workers had decreasing shares and the other occupational groups showed no significant changes.

TABLE 1.20

PERCENT DISTRIBUTION OF EMPLOYED FEMALES BY MAJOR OCCUPATION GROUP: 1956-1974, MAY ROUNDS

	*	· · · · · · · · · · · · · · · · · · ·																_						
Service: sports and related wor-		11.2	12.6	13.0	12.2	12.0	13.3	12.0	12.5	15.6	13.4	14.2	12.8	10	15.4	16.2	2 4	•	•	14.9		13.8	udy di	of Households
Marual workers laborers n.e.c		0.4	0	2.0	0.1	- - -	7.0		α	ָ ס ט ט ט	, () () ()	•	3.0	1.0	7.	1.0	0.1	0.5	0.5		0.3		# V
Craftsmen, prod'n pro- cess workers	1 L 5 P	22.1	7 70	22.53	21.4 21.4	7. 2.2	7.77	20.1	100	7. A. C.	18.5	L/•3	7.7	7.01	16.8	18.4	16.4	15.5	14.0	13.8		18.8		•
Miners, : Workers : Craftsmen, : quarrymen : in transport:prod'n pro- and related:and communi-:cess workers: Worker : cation :		*	:	: -	: 44	: -	T. 4	c •	¢				•	ĸ	0.2	0.5	0.5	0.1		2.0	7.0	*		\$
: Miners, :quarrymen :and related:		ŗ	1.0	ĸ		•	0.1	1	•						*		0.1		٠,٠ ٥,٠	7.0	T.0	*		
Farmers, farm: laborers and : related :			44.5	36.0	41.2	42.1	38.7	45.9	43.1	40.2	38.1	39.6	40.0	41.5	37.9	31.2	20.5	: _	•		39.0	1 (38.8	4.7
Sales Workers			9.3	•	12.5	12.9	11.8	11.0	12.4	13.3		, ,	13.9	1 2 2 2	17.0	11.5	20.00	0.07	•`	21.8	17.2		14.4	
:Clerical :Workers 1:			1.1	1.4	1,3	1.4	1.8	1.7	2.1	, ,	, c	2,0	2.0	• •	× 7 1	0 1	\.	7.7	4.1	4.7	5.1		2.7	
: Administrative : Executive : and managerial			9 9		ိုင်	, c	ຸ່ດ	່າເ	ם מ	2.6	0 5	, t	0.7	0.0	9 10	0.7	1.0	1.0	0.5	6.0	0.8		4.2	sample househrlds
ional,	2			10	, ⊔′	7 F	י מ	2 Y	.	χoι	<u>ი</u> (ית	0 5	7	ာ	3	9	,- -1	2	-	7		∞,	n sam

National Sample Eurvey of Household (NSSH), previously called, the Bureau of Census and Statistics Survey of Households (BCSSH) and earlier, the Philippine Statisticai Survey of Households (PSSH).

(1070)

50

4

na] 1	Administrative Executive and ranagerial workers	Clerical Workers	: Sales :Workers	:Farmers, farm : laborers and : fish hunters	Miners Quarrymen and related workers	Workers in transport & communication		: Manual : Servic : Workers:sports : § labo-:related : rers	Marual : Service Workers:sports and § labo-:related rers	
							· ICI WOIVEIS.	S. 11.6.C.		
	T.,		10.3	41.8	0.1	•	22.0	0.3	12.5	
	5.9	1.3	10.7	42.6	•	, t	22.4	0.1	12.3	
	4.3	1.5	11.0	47.8	ı	*	19.2	1.0	11.2	
	5.3 9.1	당 . 근	11.3	44.0	*	*	20.5	0.1	× = = = = = = = = = = = = = = = = = = =	
	0.5 	 S	8.6	42.5	*	0.1	21.6	0.1	13.0	
	٠.٧	2.0	10.9	43.7	•	*	18.8	0.1	12.8	
	œ v	1.6	10.2	47.0	*	*	17.7	0.1	12.7	
	٠٠. ٥٠	2.1	12.2	43.9	*	0.1	18.3	0.1	12.4	
	7.3	2.9	12.5	37.4	•	0.1	16.5	*	16.2	
	6.2	2.6	11.6	40.7		•	16.7	0.2	14.7	
	5.9	2.7	11.6	42.2	0.1	,	16.6	*	2 7	
	7.4	3.7	12.4	_:	*	0.1	16.7	0.2	16.6	
	0.0	4.2	20.8	31.6	0.0	0.2	14.4		17.4	
	æ •	6.4	19.9	34.5	0.1	0.2	14.0	2	10.0	
-	9.0	5.1	17.2	38.4	0.0	0.2	12.1	0.1	16.8	
	5.1	2.6	12.8	40.8	*	*	17.8	0.1	14.1	
n sa	n sample households									

1 Sample Survey of Households (NSSH), previously called the Bureau of Census and Statistics Survey of Households and earlier, the Philippine Statistical Survey of Households (PSSH).

1.4.3 Working Hours and Underemployment

The female labor force has always kept shorter working hours than the males. In May 1974, the average hours worked by males during the survey week was 46.1 hours while for females this average was 41.9 hours. In Table 1.22, we show that during the same survey week 62.6 percent of the female labor force worked 40 hours and over, 13.9 percent worked 30-39 hours, 14.0 percent worked 20-29 hours, and 9.5 percent worked less than 20 hours. Over the long-run, an average of 53.1 percent of the female labor force worked full time, i.e., more than 40 hours, and the remaining 46.9 percent were part-time workers. On the average, these part-time workers were almost evenly distributed among the three subgroups, with slightly fewer workers in the 20-29 hour group. The average hours worked per week for the period 1956-1974 was 39.5 hours.

Table 1.23 shows that women generally worked longer hours in October than in May. In the October rounds, a larger proportion of the female labor force worked 30-39 hours or 40 hours and over while a smaller proportion worked 20-29 hours or less than 20 hours. Average working hours for the years 1956-1973 was 39.7 hours.

TABLE 1.22

PERCENT DISTRIBUTION OF EMPLOYED FEMALES AT WORK BY HOURS WORKED PER WEEK AND AVERAGE HOURS WORKED PER WEEK OF EMPLOYED FEMALES: 1956-1974, MAY ROUNDS

	A SUATE	and the second s		the way of the second s	
ar 1	Under 20 (%)	hrs.: 20-29 hrs. (%)	HOURS OF WO : 30-39 h : (%)	RK: : 40 hrs. & over: (%)	Ave. hrs r: worked p week
<u>ili</u>	ppines		* * * * * * * * * * * * * * * * * * *		1986
56 57 58 59 61 62 63 64 65 66 72 73 74	15.1 12.5 15.3 19.5 18.2 (April)16.5 19.4 19.2 16.0 19.6 22.0 18.0 13.7 10.8 9.3 11.1 9.5	14.8 19.5 17.4 13.5 14.9 14.2 18.2 14.7 13.0 11.8 13.1 15.0 15.7 12.3 12.5 10.7 14.0	14.6 19.7 18.3 11.5 17.0 18.2 21.8 18.7 15.8 12.8 14.3 16.7 14.9 12.1 16.3 11.7	47.9 48.4 46.3 48.5	44.9* 39.6* 38.7* 36.1 38.1 37.9 34.8 37.3 38.0 39.6 37.9 37.6 39.9 43.2 42.3 43.1 41.9
rag	ge 15.6	14.4	15.8	837 Lanc	39.5

ledian hours worked.

rce: National Sample Survey of Households (NSSH) previously called, the Bureau of Census and Statistics Survey of Households (BCSSH) and earlier the Philippine Statistical Survey of Households (PSSH).

A large group of women workers considered their working hours insufficient. This group of underemployed women (those who wanted more hours of work) averaged as much as 28.9 percent of the women working less than 20 hours, 25.6 percent of those working 20-29 hours and 23.0 percent of those working 30-39 hours (Table 1.24, May series). means that approximately one-fourth of the women working on part-time jobs were underemployed. Among full-time women workers, the underemployment rate averaged 10.0 percent in May. October being a busier season, underemployment rates for this month were generally lower (Table 1.25). In Tables 1.26 and 1.27 we see that underemployment rates are significantly higher in the non-agriculture industries for part-time workers but lower for full-time workers.

edo - o fico elo elocara (1925) en<mark>can</mark>one y coloros elegantes elegantes el especiales - o probe - los esfélias elocales di coloros en escalados bases, acros la despeci - el está de como - o porte tropastible encapitato for roitados

; ·

prophis we was the TABLE 1.24

PERCENT OF EMPLOYED FEMALES WHO ARE UNDEREMPLOYED BY HOURS WORKED; 1957-1974, MAY ROUNDS

HER THE THEOLOGY OF THE RESIDENCE OF THE STATE OF THE STA

Year : Un	der 20 hrs. :	20-29 hrs.	: 30-39 hrs. :	40 hrs. and over
	Alt I. Marbha			4 0
1957	19.8	21.6	22.0	4.8
1958	30.7	25.7	20.2	7.4
1959	30.9	27.9	34.2	6.7
1961	- 6. 37.3 ≥0 ± 30	da 2645 - S	22.2	12.0
1962				
(April	10.5 of 1989	14 25.9 16 W	27.1	11.5
1963	33.3	28.5	29.2	15.8
1964	26.3	23.9		
1965	47.8	28.0	26.0	15.6
1966		29.6	24.7	11.6
1967	30.5	34.4	20.0	12.5
1968	37.6 ac.	40.2	32.1	12.3
1969	32.9	26.4	21.4	10.3
1971	21.4	21.4	21.1	8.8
1972	19.5	17.2	14.5	6.1
	20.5	18.0	12.6	4.8
1974	16.4	14.8	13.5	4.2
1	grand rain a line			- 1 j.
Average	28.9	25.6	23.0	10.0

Source: National Sample Survey of Households (NSSH) previously called, the Bureau of Census and Statistics Survey of Households (BCSSH) and earlier the Philippine Statistical Survey of Households (PSSH).

TABLE 1.25

PERCENT OF EMPLOYED FEMALES WHO ARE UNDEREMPLOYED/BY HOURS WORKED, 1957-1973, OCTOBER ROUNDS

Year :	Under 20 hrs.	: 20-2	hrs. :	30-39 hrs.	: 40 hrs. and over
1956 1958 (Nov 1959 1960 1961 1962 1963 1965 1966 1968 1971 (Nov 1972 (Nov	23.4 41.0 28.9 33.0 27.5 29.9 21.4 37.4 .) 16.4 .) 20.5	38 32 23 30 33 27 27 30 30 40 12 23 18	3 9 5 8 8 6 7 0 3 6 2	7.1 22.4 15.6 22.0 32.0 27.8 29.1 28.1 27.6 34.6 18.7 10.2	6.1 8.0 6.6 8.2 11.7 12.8 10.7 13.7 15.0 14.7 7.0 5.7 4.3
Average	27.7	28.	4	22.4	9.6

Source: National Sample Survey of Households (NSSH) previously called, the Bureau of Census and Statistics Survey of Households (BCSSH) and earlier the Philippine Statistical Survey of Households (PSSH).

TABLE 1.26

PERCENT OF EMPLOYED FEMALES WHO ARE UNDEREMPLOYED IN AGRICULTURE AND NON-AGRICULTURE INDUSTRIES, BY HOURS WORKED 1957-1974, MAY ROUNDS

	7 .											
d San	, 5		anone	ė	æ							4.jg
	9 6 *	Prs. E	3	4.2	0.0	9.5	15.1	16.4 11.8	13.4	დ დ დ	2.5	3.6
÷		 								٠		
		10 -		2.3	4.	٠. ف	4.7.	s, o	~ ~	الم م	no	امار
·.		30-3		25	23.7	30 34	28 28 28	27	42	20.23	81.	 26 ±
د جر) - -	hrs.	9	2000	4.6		.2.	ပ္ တ	ب ∞ د	, L.	. o	
نبوم	AGR	57-07	~	i w iv	. ₩ K	. W. E.		942	34.5	12:	317	32
	N 0											
×.,	er 20	9	28.5	75.	-1 00 o	 	5.5	2.3	37.4 34.3	7.7	6.	ا:
			•••	14	1 W <	t M L	ו נא ט	₩	. W. G	3 S	31	3
	§ above		23	1	ω 4	رد در	0.10	\ 				
	hrs. 6			8. 16.	17.3 20.4	16.	13.	14.4	13.6	8.1	13.1	
	: 40 1											
	hrs.						.∰.	*.·				
K E	30-39	22.3	17.0	19.7	26.3	26.9	16.7	22.5	12.5	10.9	20.9	
												;
LCI	20 hrs	22.4	23. 3 22.4	21.9 * 26.0	29.3	21.4 * 24.7	29.7	21.5	16.1 14.9	12.6	22.9	
AGR	20-	,	ş4						· — —	7	2	.10 G::
	hrs.		ř-		`, .							ational Sample S
	1 20 (8)	13.8	26.7	27.2 28.4	21.9	28.1	52.6 55.5	6.0	5.1	0.0	†	ationa

itional Sample Survey of Households (NSSH) previously called, the Bureau of Census and Statistics Survey of Households (BCSSH), and earlier the Philippine Statistical Survey of Households (PSSH).

AGRICULTURE AND NON-AGRICULTURE INDUSTRIES, BY HOURS WORKED 1956-1973, OCTOBER ROUNDS

_	T							_										
	40 hrs. & above (%)	×		6.2	6.3	9.9	5.7	6	10.6	16.6	13.3	13.9	13.7	8.7	5.1	4.5		9.3
TURE	30-39 hrs. (%)			24.3		15.8		24.7	34.6	32.1	32.1	35.3	35.1	21.3	14.6	17.1		22.5
NON-AGRICULTURE	20-29 hrs.		٠	26.3	33.4	27.7	32.1	36.5	38.3	33,3	33,3	43.1	43.5	24.0	32.0	25.5		53.0
NON	Under 20 hrs. (%)			29.8	35.3	38.1	42.2	33,5	42.8	32.1	38.9	32.3	43.9	23.0	25.0	30.0	4 7 7	34.5
•	40 hrs. & above : (%)			7.6	11.8	· 6.8	12.7	19.2	18.5	20.7	16.2	20.8	19.0	0.6	& &	4.4	1.4.	13.5
ULTURE	: 30-39 hrs.: (%)		. (17.9	22.7	15.2	24.8	37.1	24.4	27.8	25.2	23.0	36.1	14.6	8.1	14.7	7 7	4.77
A GRIC	; 20-29 hrs. ; (%)		***	7.7	30.8	20,4	28.5	33.2	24.0	25.3	25 4.	21.3	38.4	18.1	17.5	14.9	0 30	0.62
ŧ	nder 20 hrs. (%)		- - - - -	20°C	29.7	37.1	40.3	26.6	23.5	25.1	24.0	16.1	33.6	13.3	17.5	12.9	7, 70	÷.07

hal Sample Survey of Households (NSSH) previously called the Bureau of Census and Statistics Survey of holds (BCSSH) and earlier the Philippine Statistical Survey of Households (PSSH).

CHAPTER 2

THE ECONOMIC STATUS OF WOMEN: AN ANALYTICAL FRAMEWORK

2.1 Introduction

Equity as an objective of economic development has recently gained ground relative to economic growth. . This is reflected in the new research emphasis on problems of employment, income distribution and poverty, and more recently in the interest in the There is a general feeling economic status of women. that women are underpaid, overworked, and sulject to economic discrimination, and that the state of equity would be improved if these problems could be solved. The research task is to obtain a better understanding of the economic relationships which bring about the economic status of women. There is a need for a positive theory or model which deals with these relationships. We shall try to point which of these relationships have already been identified by research, as well as those which are important areas of ignorance on which future studies should be focused. an economic model is necessarily positive -- that is, intended to help explain what it is -- the ulterior motive of such a model is actually normative, that is, intended to help bring about a better state of equity.

In this section, we suggest an economic frame for analyzing the economic status of women. The approach is diagramatical, rather than mathematical, and is summarized in Figures 1-3. Figure 1 deals with the determination of work and income condition for female labor. Figure 2 focuses on the concept of full family income, and points out how, in a general equilibrium setting, such income has feedback effects on the demand for labor. Figure 3 puts the analysis in a dynamic context, and indicates, how present economic conditions for women can effect future ones through such demographic variables as fertility and family formation.

2.2 Determination of work and Income Conditions for Women

Figure I reflects, a model where decision making is done by the family as a unit. This is along the lines of the so-called "new home economics". As the family seeks to maximize its economic well-being, the first consideration is its economic resources. These

See Schultz (1974) and Ashenfelter and Heckman (1974). See also Porio, Lynch and Hollnsteiner (1975) for a sociological study as to who among the various family members makes a certain decision. For our purposes, it is not so important who makes a decision as much as the requirement that, whatever the decision, it is made with the economic well-being of the entire family in consideration.

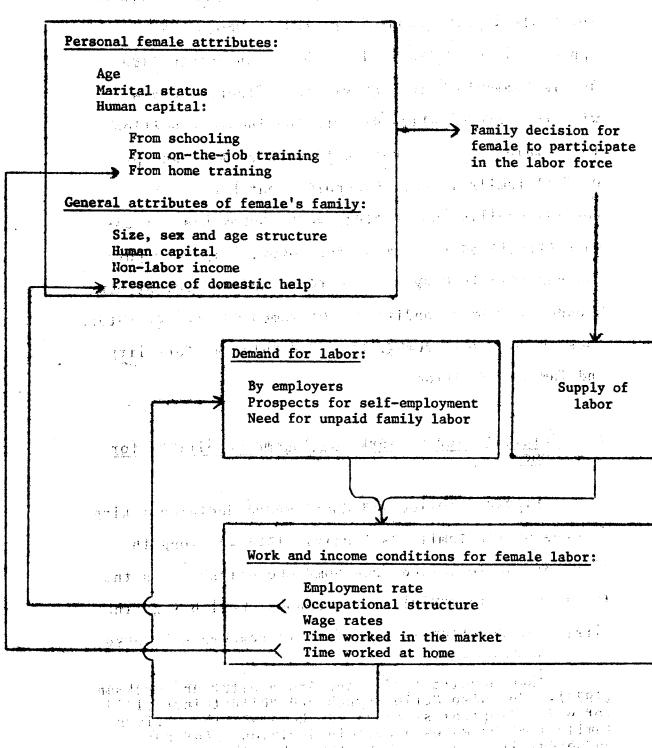


Figure 1

DETERMINATION OF WORK AND INCOME CONDITIONS
FOR FEMALE LABOR

variables, in the uppermost box of Figure 1, are classified as either human or non-human. Some of them are female attributes in particular and others are family attributes in general. To these various attributes there correspond certain earnings or wages, costs, as well as non-pecuniary economic advantages and disadvantages, to which the family The notion of wage-pull is already responds. implicit in these variables. For instance, income opportunities and cost expectations depend on human attributes such as sex, age, and marital status. important economic resource is the number of people of working age in the family. The time constraints on the family must be considered; if there are young children present, then they have to be cared for, and this can be done by older members of the family as well as by domestic help. The variables are meant to incorporate all the economic anticipations of the family, includong the expectation of being able to find work. For instance, if the women is a college graduate, then she may realize that the unemployment rates for college graduates is rather low and hence not be discouraged from looking for work. It is also possible (and we do find some evidence of this) that women are discouraged from seeking work if their

husbands or other menfolk are unemployed, i.e., the male unemployment rate becomes a general symptom of the overall state unemployment.

The family then decides on the labor force participation of each member of the family. main interest, of course, is on the labor force participation of women, as indicated by the arrow. But, at the same time, one should stress that the family is simultaneously deciding on the labor force participation of males, as well as of the children. It is likewise making decisions on all other activities relevant to the family's economic well-being, such as how to invest its non-human capital. Analytically speaking, therefore, the decision on female labor force participation must be considered as taken jointly with many other decisions, rather than as some type of a residual decision, or as a secondary link in a chain of decisions.

With respect to the female labor force participation relationship, one may hypothesize that (a) the effect of an increase in husband's income is positive, (b) the effect of an increase in wife's education could be either positive or negative, (c) the effect of the presence of young children is negative, and (d) the

The first of the state of the s

effect of the presence of domestic help is positive. 2

This framework reflects the recent recognition of the importance of time as a resource. 5 Human egetidis a social resources are constrained by the time available by the grante of the co family, since obviously everyone has only 24 hours per PB BALLET CARRIES There are always various opportunities for the use of various hours in the day, and, for each member of the family, decisions must be made on how to allocate the time available. Some of this time is devoted to what is officially known as "work". In the Philippine statistics, this is of three types, (a) selfemployment, (b) employment by others and (c) unpaid family labor outside the home. If a person is engaged W.C. , , 870 in or seeking work of any of these types, then he is said to be in the "labor force". However, in our the the earl on all attack analytical frame, it is also necessary to recognize the time spent in "home-work", such as housekeeping, since such time spent is also one of the joint decisions made by the family.4 Cold Book meson

²See Encarnacion (1973), Mincer (1962), and Rowen and Finegan (1969).

³See Becker (1965).

Thus one may conceive of a person's daily 24 hours as allocated between (a) work in the market, (b) home-work, and (c) leisure as the residual.

In line with the recognition of home-work is the recognition of home-training as a part of human capital. Usually, human capital is said to consist of formal schooling or else of on-the-job training. But, especially when studying the economic status of women, it is vital to consider home-training as a component of human capital. Such training is capable of bringing about a stream of services for family consumption. It is a form of capital which does not occur naturally, but is acquired, as indicated not only by the fact that most women acquire it but also by the fact that many men acquire very little of it. It can be argued that the cultural habit of training young girls, but not young boys, for home-work will leave them with very little choice, later on, on how to spend their time. When home-training has already been "sunk" in women, families themselves would find it inefficient to force untrained men to spend their time in home-work, so as to "emancipate" the grown women from the home. 5

1. (2001) 1863

⁵See Sandell's comment on Zellner (1972). The point also applies to occupational roles which are inculcated at an early age, such as on what constitute "feminine" occupations, and what constitute "masculine" occupations; see chapter 12 of Boserup (1970).

In this framework, the family makes a joint decision on work, receives a joint income, and decides on joint consumption. Since full consumption conceptually includes the value of services from homework, there is no a priori analytical ground for referring to one member of the family (the male) as the major earner, and another member (the female) as the supplementary earner. The criterion of cash income is definitely inferior to the criterion of full income; and although one could try to estimate the contributions of the male and female members of the family to full income, this is really a difficult econometric task.6 If, using the equity viewpoint, one believes that the important income variable is family income rather than individual income, there seems to be little ground for trying to estimate the separate contributions of the sexes (aside from flattering or soothing the egos of the members of one sex).

Instead, we may ask, what is the economic phenomenon which is meant to be described by the term "supplementary earner"? It appears intended to describe the fact that, under most conceivable wage and price structures, it is the men who specialize (are full-time) in work in the

⁶See Gronau (1973).

market, whereas women are more flexible in dividing their time between market and non-market. Women's hours at market-work are typically much less than men's hours, and women move back and forth between the market and the home.

It may be noted that economic literature emphasizes not the direct response of women to their own wages, but their response to other variables; these are the so-called cross-effects -- the effects of men's wages, the effects of the prices of substitutes for home services, etc. Perhaps one should refer to women as "flexible responders" rather than "supplementary earners", since the latter term unnecessarily connotes a minority role. Similarly, it would be preferable to refer to women as flexible workers or joint workers rather than "added workers". The concept of added workers is only valid when the concept of work does not include home-work.

The added worker hypothesis, as stated by Mabry (1973) is that, when in the course of a business cycle men become unemployed, women of the family are induced to enter the labor force. However, Mincer (1962) says that this hypothesis is not validated in the case of the United States. In the Philippines, the inflationary context seems much more important than the cyclical context. When the real wages of men fall in the course of an inflation, family economic well-being will threaten to fall below a critical point unless the women joins the labor force. Encarnacion (1973) argues that there is

Thus the important issue is the variability and of women's participation in the labor force. The Philippine female labor force participation rate has varied between 30 and 50 percent over the last and 100 percent two decades. 8 The general tendency is for the women's labor force participation rate to go down (although omata a promovina ser a mitara e e this does not happen every year). This is different 。」」」「Artholy Salt (**● ##** # 17 4) (Artholy Salt) from the experience in Western countries, where the ng nathanach i 24 ymin 6 bh isan di female labor force participation rate has been rising. .ជា ១ នេះប្រ In the U.S., Mabry (1973) asserts that the main reasons are (a) the increase in female schooling attainments above the high school level, (b) technical स्व हैं अं advances in home-work, (c) greater willingness of men rain, the company of the state of the transfer of the state of the sta to do household work, and (d) the decreases in the Contract the solution is with the contract average size of the family. In the Philippines, however, A production of the comment of the c the main force depressing the labor force participation rate is the increasing amount of schooling which women

process to a legación de conflición de la periode de la conflición de la c

ត្រូវបានស្រាស់ ស្រាស់ ស្រាស់ ប្រើបានស្រាស់

a threshold level of market income, which the family cannot afford to be without. Tidalgo (1975) points out that the real wages of women seem to be much less vulnerable to inflation than the real wages of men, and therefore it is rewarding for women to join the labor force in their effort to offset the effects of inflation on family income.

Such variability is an international phenomenon; see Collver and Langlois (1962).

are undertaking. The proportion of women of school age who are actually in school has been rising very rapidly in the last twenty years, and the gap in the amount of schooling attained between males and females has markedly declined.

With respect to the schooling of women, there are two phenomena which call for further study. In the first place, there is a very high proportion of women having very high education. It appears that the educational preference given by parents to sons over daughters, if it exists, is not consistent for all degrees of schooling. For those families with relatively high income, there would seem to be little reason to discriminate between males and females.

Perhaps the favorable proportion of women, relative to men, with high levels of education, is due to the fact that women from upper income families tend to go into jobs which require significant amounts of formal education (such as teaching).

A second puzzle is why, for female college graduates, the labor force participation rate is so

See chapter by R. Alonzo, "Indicators for Learning," in Mangahas (1976).

much lower in urban areas (77%) compared to rural areas (92%). This is in opposition to the general rule that, for females, the labor force participation rate is greater in urban areas than in rural areas. One hypothesis might be that college graduates ordinarily work in offices, and that there is less of a commuting problem in rural areas. It has also been argued that (a) because men's cash incomes are less in rural areas, rural wives want to add to family cash incomes; and (b) in rural areas, it is easier for other members of the family to take care of children, and therefore easier for females to work outside their However, these reasons (a) and (b) would seem homes. to apply not only to college graduates but also to non-college graduates. 化氯化 医乳头病 医乳腺 网络人名西西斯克斯

Inspite of the downward trend in the female

labor force participation rate, the female labor force
has been steadily increasing. The basic force has of
course been the growth in the population base. Yet we
should note that there are times when the absolute
level of the female labor force has fallen, i.e., there
are times when the drop in the female labor force participation rate overpowers the basic growth in the population

base. Thus analysis of the female labor force participation rate carries a larger importance, since it does not merely apply a small correction to a broad trend of population growth.

Adams of the same The effect of family size on the female labor force participation rate is negative. Concepcion and de Guzman 10 find that an increase in family size has a larger downward effect on labor participation in urban areas than in rural areas. The explanation they give likewise takes account of the cost of time -- it is less inconvenient for rural females to work and care for children at the same time. Thus, eventually, we may expect the female labor force participation rate in the Philippines to turn upward, and become similar to the Western pattern, since there will eventually be a saturation in the participation of females of school age in the educational sector, and eventually the average family size will decline. Both forces will lead to another increase in the female labor force participation rategor

Labor force participation for females tends to peak in the age group 25-44 (this is a relatively young peak,

The largest $^{-10}$ In Encarnacion (1976).

compared to men). 11 It is usually found that women leave the market labor force earlier than men, and that this pattern is clearer in urban areas than in rural areas. 12

Note that the decision to participate in the labor force, in Figure 1, is entered on the supply side for labor. The supply side also includes such non-family factors as the state of unionization of women, which, unfortunately, is somewhat weak. Of female workers, a little more than 2/5 are wage and salary workers, of which only 4-5 percent are members of unions. 13

The supply of labor then interacts with the demand for it. In the first place, the demand for labor is derived from the demand for the products which labor produces. In particular, the government is currently

Therefore the use of an age variable as a binear component in a labor force equation is actually a very rough approximation.

¹² See Bureau of Women and Minors (1974). Fox (1964)

13 See Bureau of Women and Minors (1974). Fox (1964)

"speaks of Filipino women's pressure groups as being
"powerful and feared" -- but it seems that here he is referring to associations such as the Catholic Women's League, whose main purpose is not to raise the economic status of women.

pursuing policies meant to change the composition of production towards activities which are more labor intensive, more export-oriented, and located outside Metropolitan Manila; it is also interested in activities which are food-production oriented. It is thus from the demand side that one retionalizes the use of occupation and industry variables in equations determining labor force status, hours worked, and incomes earned.

Secondly, it is on the demand side where consideration is made of all the legal and institutional rules applied to women, such as 'equal pay for equal work.'

Here the general feeling is that government rules make it more difficult for women to be employed outside the home.

Thirdly, the issue of sex discrimination may be assigned to the demand side for labor. Much of the modern theory on economic discrimination can be traced to Becker (1971), who gives three categories of discrimination: (a) there can be discrimination from employers, who feel that women are relatively more inconvenient to

 $^{^{14}}$ See Sison (1963) and Bureau of Women and Minors (1974).

hire than men, and that therefore will hire them only if there is some wage differential between them and men; (b) there may be discrimination from co-workers bear (say male workers) who do not find it pleasing to work with women, and demand more pay as a consequence; (c) thirdly, there may be discrimination by sustomers, who feel that they ought to pay women less than men for the same sort of services (for instance customers may feel that women do not make very good mechanics). These notions of economic discrimination include both work the issue of prejudice and the issue of ignorance. 1500 at

cate The interaction of supply and demand give the resulting work and income conditions for females. Our estimated equations for labor force participation, hours worked, and, earnings; are in the nature of sorcalled reduced-form equations, with some of the presdetermined variables taken from the demand side, and some from the supply side the main features of these work and income conditions are as follows: Constant to Figure to Sub at the

. Report the following $\mathbf{x} = \{\mathbf{x} \in \mathbb{R}^{n} \mid \mathbf{x} \in \mathbb{R}^{n} \mid \mathbf{x} \in \mathbb{R}^{n} \}$

<u>in in a property of the state </u>

¹⁵ Zellner (1973) refers to these as deliberate discrimination and erroneous discrimination. Of course, the discrimination can work both ways -- for instance some employers may feel that males are not capable of being as good secretary/typists or nurses as females, and may hire such males only if there is some wage differential between them and women. 医蛋白蛋白蛋白 医肾髓 医皮肤 医缺陷 键点

- Philippines is higher for women than for men. Concepcion and de Guzman¹⁶ say that the higher unemployment rate is due to discrimination in unemployment against women. However, Tidalgo (1975) finds that women find work much faster than men, averaging only 10-1/2 weeks looking for work, versus 15 weeks for men. 17

 In this case, a larger unemployment rate for women than for men can only occur if the rate of turnover of women in the labor force is very large. This of course is what would be expected. Women go in and out of the labor force much more frequently than men. Women also tend to be more migratory than men, and this can also contribute to a high rate of turnover in the labor force.
- employment is much larger for men, i.e., men tend to say that they would like to work longer hours than they already are working. Concepcion and de Guzman feel that this is due to man's culturally defined role as 'breadwinner'. It is the man who feels the responsibility of providing for the family, as far as market earnings are concerned, and therefore it is up to him to speak up,

In Encarnacion, (1976).

¹⁷These figures refer to experienced workers.

much more than the woman, and to say that he needs more work.

- Constitution of the Authorities and the Constitution of the Consti (3) Women are often part-timers in market work, and in addition their earnings are typically less than male earnings. For November 1973, the Bureau of Women and Minors (1974) found that the average ratio of female to male weekly cash earnings is about two-thirds. Tidalgo (1975) estimated the female-male earnings ratio in the 160's as .76. These differentials are particularly high in professional fields and in clerical fields. There is no difference in agriculture, and there are some instances in which female wages are higher than male wages (domestic services, and footwear and wearing apparel manufacturing). Tidalgo feels that wage differentials are higher in the professional fields, because there is more discrimination Commission of the when more training is needed.
- (4) An important result of the interaction of the supply and demand for female labor is the phenomenon of

¹⁸ We might restate this: in occupations where training counts or has a high payoff, women can lose out relative to men because their on-the-job training is less, mainly due to discontinuity of their work. See Mincer (1970).

occupational segregation according to sex. 19 The following instances of occupational segregation may be cited: in dressmaking, beauty culture, embroidery gi kapaisan j and midwifery, virtually all workers are women; the ratio frages on the second of the second second second block in the second of the second of females to males among nurses is 15:1, among dentists THE P. P. LEWIS CO. LANSING SECTION AND ADDRESS OF THE PARTY AND ADDRES 10:1; among pharmacists 8:1, among domestic helpers 5:1, with your many and the consider partial of the books and among chemists and optometrists 1:1, and among secretarial and clerical workers 3:4.20 Another piece of evidence as to which occupations are "overcrowded" with females The property of the property of the state of is from a survey of subjective attitudes as to the occupations in which there should be fewer women than there presently actually are. Porio and others (1975) report gag (**ge**r) - kakir, kapak Killa pala hⁱst that these overcrowded occupations are in services, forms additions a new immore daily at farming, teaching, other professions, and selling and Complete general carrier line gard and the large control and peddling. One hypothesis regarding the cause of occupational segregation is that it is due to consumer discrimination, rather than to employer or co-employee The English of Perint of the Contractor discrimination. 21

and realizable and the relief of the trage of the

¹⁹ See Bureau of Women and Minors (1974) and Sison (1963). For a statement of conditions in the United State see Zellner (1972).

²⁰ See Sison, op. cit.

(5) Another result of the demand and supply ing the first transfer interaction is the industrial distribution of female employees. The Bureau of Women and Minors (1974) reports that, out of every 100 female employees, 39 are in agriculture, 19 in commerce, 13 in manufacturing, 14 in domestic service, 12 in government, business, community or recreation services, and 3 in other personal services. Attention should be drawn to the high proportion of females in domestic service. This sector is as arms to the first rate important as manufacturing, and is of special interest since it has implications for the possibilities of other women, namely their employers, obtaining work outside the home. The Western model, on the other hand, this H of ME domestic service sector is almost nil. 22 The importance of recognizing these two distinct classes of women is stressed by Fox (1964, p. 355) who states:

"It is possible to measure the areas of low income and low productivity throughout the entire Philippines by utilizing one criterion, that is, the degree of emigration of young women (and men) to fill jobs in Manila as servants, waitresses and hostesses".

grant of the strong of the state of the strong of the stro

²² See Collver and Langlois, op. cit.
23 By "hostesses" is meant certain nightclub entertainers.

labor determine the distribution of female workers according to class, that is, whether employed or self-employed. In the Philippines, about 1/5 of female workers are self-employed, or much larger than the proportion in Western countries. 24 The distinction between employed and self employed is of relevance in the determination of the wage differential according to sex. Encarnacion (1975) estimates that, among the class of employed workers, females earn about 44% less than males; however, among the class of self-employed workers, females earn only 31% less. This may be due to the greater prevalence of discrimination according to sex in employed situations compared to self-employed situations.

Let us now note some of the feedbacks described in Figure 1: (a) Part of the demand for market labor is self-employment demand, as well as unpaid family labor demand -- these components recognize that many families are also, in effect, firms. Thus the diagram indicates that all the work and income conditions for

Brain and the Confe

建物 医多点数原化 触管放射管 抗二甲烷

²⁴See Fuchs (1971).

female labor affect the demand for female labor by such family firms themselves. (b) The feedback effect with retired to the Book of the section respect to domestic service workers should also be noted. The market at present gives rise to a large servant class, unlike in the West, thus allowing many upper class women to work outside the home. (c) The longer it is that Note that the second of the second women work at home, the better they become at home-jobs, at an open and who store wear to be disciplined. and the more difficult for them to leave such work, as on the Spageness of the first of the State o time goes by. Of course, there are many instances of mala was estimon estre no establique dazon "successful women" who have managed to put their homeen jour de la company de la grande de la gra work talents to use in such businesses as cooking, dress-Community Commence of the State of the State of ាំ មានសារសេត្រ making, baking, etc. The second of the second of the second

Finally, the location of the stimuli for women to work is also of interest, although Figure 1 fails to call attention to it. Geographical opportunities from work can change, and it has been shown that women are relatively more responsive than men to these geographical opportunities. In the case of national migration, the propensity for females to move is strongest in the age group 15-34.²⁵ In the case of international migration, the most serious issue appears to be that of occupational segregation -- in particular, there is a very strong demand at present for Filipino female nurses. 26

turn to the

 $^{^{25}}$ See Zacariah and Pernia (1975).

²⁶See Tidalgo (1975).

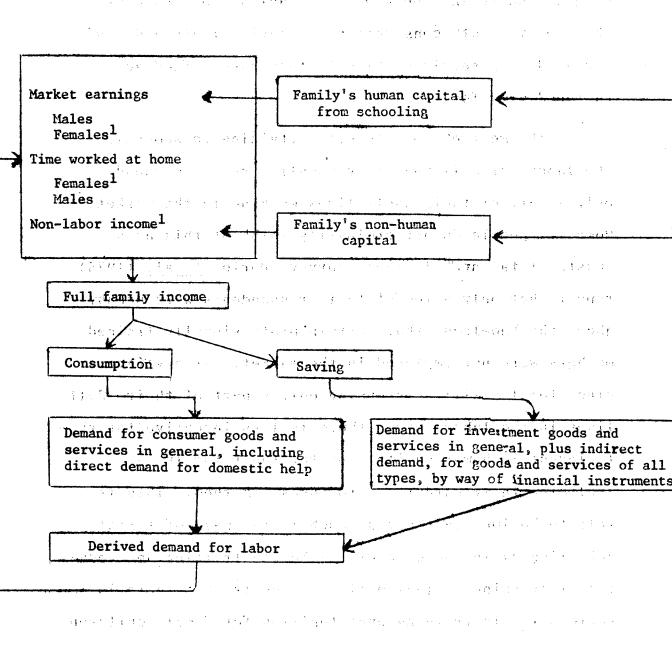
2.3 Full Family Income

Figure 2 emphasizes the concept of "full family income," which includes the effective home income from home-work. 27 In this concept, before the woman' income can be considered the "supplement", the difficult job of computing the implicit value of home-work, has to be accomplished. However, it may be argued that there is little need for doing this, inasmuch as the important income aggregate, from the equity standpoint, is total family income rather than income from members of particular sexes. Another issue is that the income of a husband can be attributed not only to his own qualifications, but also to his wife's qualifications. 28 (Consider the innumerable instances of writers who acknowledge their wives. Of 😂 course, to be symmetric, one should also admit that a wife's productivity can be enhanced by her husband's qualifications). Thus even though 1/5 of women of working age are not in the labor force; this need not be seen as The transfer of the second necessarily a waste.

As the diagram shows, full familly income is divided into consumption and saving, and saving in turn enhances

²⁷See Gronau (1973).

²⁸See the article by Benham in Schultz (1974).



్ ముంది మంది కార్స్ కొన్నారు. అయిన కొన్నారు కార్ కొడ్డికోన్ని కొన్నారు. కొన్నాలు ఉన్నాయి. కొన్నాలో ఆర్వార్డ్ కొన్నారు. కొన్నాలు కొన్నారు. కొన్నారు. కొన్నాలు కొన్నారు. కొన్నారు. కొన్నారు. కొన్నారు. కొన కొన్నారు. కొన్నారు. కోట్లు కొన్నారు. కొన్నారు. కొన్నారు. కొన్నారు. కొన్నారు. కొన్నారు. కొన్నారు. కొన్నారు. కొన్

¹See Figure 1.

Figure 2
DETERMINATION AND SIGNIFICANCE OF FULL FAMILY INCOME

both the human and the non-human capital possessed by the family. Both consumption and saving imply a demand for goods and services which in turn have a feedback to the demand for labor.

The most obvious aspect pertaining to women in the labor force is that they usually expect to spend only a part of their adult lives working in the market. 29 However, people do not ordinarily think of this as a "waste of talent." In their survey, Porio et. al. (1975) report that only a few of their respondents were uneasy about the knowledge that certain professionally trained mothers were not employed in the market. At any rate, since females will be spending only a part of their adult lives in the labor force, there is less incentive for them to invest in human capital, or for their family including their parents -- to-invest in them. This is felt to be important not so much in the case of formal schooling as in the case of on-the-job training and vocational training. Tidalgo (1975) reports that there is a serious lag in training opportunities for female children.

²⁹See Mincer (1970) who estimates that, in the United States, women after marriage spend less than half of their lives in the labor force.

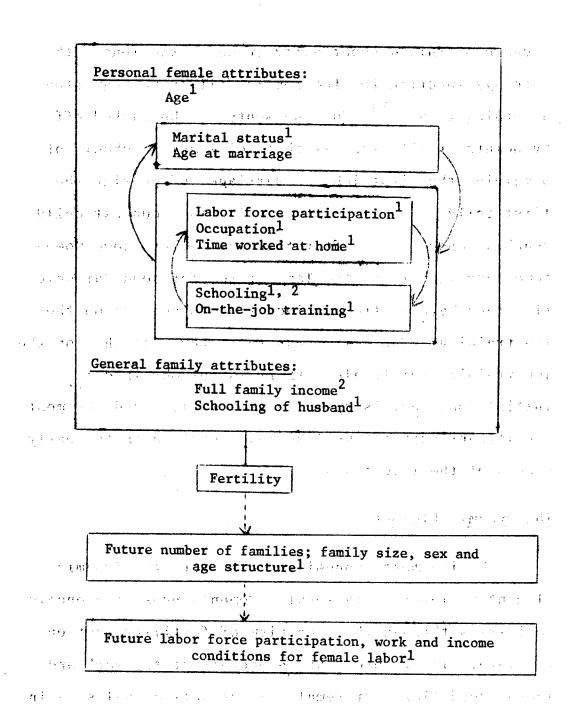
Because of this discontinuity in work experience, the earnings function for females is felt to be segmented according to age. 30 Such segments can be marked off by points of life such as those of leaving school, of obtaining the first job, of marriage, of bearing the first child, and the point at which the youngest child Incipacion 🖰 reaches school age. After this Vast point, some women come back to work in the labor force for good, at which Schooling!time they have a stronger incentive to acquire on-thejob training. Thus, it tends to be the case that on-the General femily artribately workers is not obtained in initial jobs, but is spread out over time; and the most significant part may well be that obtained in the early stages of the latest job.

The Dynamic Element

Unlike most economic models, here the dynamic element is intergenerational. Women's present economic activities through the mechanism of fertility, act on the future labor force, and hence affect the work and income conditions for females -- as well as males -- in future generations. In the first place, there is some

es digare u.

Schultz, 1974. MEMOR TO SUPERIOR STATE OF ACTION OF ACTION OF ACTION OF ACTION OF ACTIONS ACTI



¹See Figure 1.

and Armed to hips or Figure 3- of the and order

The Policy of the state of the

ROLE OF THE ECONOMIC STATUS OF WOMEN IN A DYNAMIC ECONOMIC MODEL

²See Figure 2.

The first of the property of the second

degree of conflict between female's occupations or professions with marriage. Marriage can be delayed, and sometimes denied altogether. As the diagram indicates, marriage can be both a determinant of and determined by economic situations. In the Philippines, the average age of marriage has in fact been rising steadily over time, especially in densely populated areas (including those which are rural). It has been found that wives who do work in the market have lower fertility, and that the differential in fertility between working and non-working wives is wider in more urbanized areas. In rural areas, there is relatively little conflict between child bearing and market work; but the degree of conflict tends to be relatively strong in Metropolitan areas. 32

Another economic implication of marriage has to do with the differential between female and male earnings. Fuchs (1971) has shown that, in the United States, the ratio of female to male earnings is higher for those never-married than for those who have been married. The explanation offered is that those not

³¹ See chapter 2 of Flieger and Smith (1975).

³² See Concepcion and Pernia (1975).

married, especially if not expecting to marry, are more likely to stay in the labor force and hence to invest in themselves in the way of schooling and on-the-job training. However, the ratio of female to male earnings falls as age increases. It appears that, among older people, the male advantage in obtaining higher ranking positions becomes more predominant (this is discussed further in the next section).

The actual overall trend in fertility is downward. This is due to the decline in fertility among women in the age group 25-44, which overpowers a slight upward trend in fertility in the age groups 15-24 and 45-49. Two important economic determinants of fetility are the educational attainment of the wife, and the income of the family. In the first place, large increases in educational attainment appear to have negative effects on fertility. Secondly, according to Encarnacion's hypothesis (1973), the effect of income on fertility changes from positive to negative as income increases. At very low incomes, the effect of increases in income may be essentially to improve the health of the wife, and hence lead to more live births. However, above a

³³ See article by Concepcion and de Guzman in Encarnacion (1976).

The second of the second of the second

threshold income, the typical negative relationship between income and fertility, attributed to a desire by couples themselves for fewer children, is observed.

2,4 The Economic Status of Women and the Equity Context

rugettigt great har to brighter our at one in the

toods of sponitrescore

An appropriate context for the study of the in the large time of the large contraction of the c ্ৰান্ত হৈ এই চাৰ্কী (জাত নাম প্ৰায়া economic status of women would appear to be that of the promotion of economic equity within society as a whole. or desiding roots Actually, in the concept of economic equity, the and the continuous standard unit of comparison is not the individual, but This is because, given the income of the the family. family unit, the standard presumption is that the distrila girma a a say bution of consumption within the family is equitable, Pillips og ·第二十二十分的特别,是有数数,但如此一个一个的人。 according to family standards of equity. 34 Thus we have es ily it a marthel cooperate it is a second 43.644.45 argued that the incomes of the various members of the and minute the retirement time confide in thirds. family (wherever individual incomes can be clearly Interpretation of the control of the department of the control of th distinguished, which is often quite difficult), or labor

This applies to those economic benefits and costs which can be shared. One aspect of the quality of life in which it is difficult to find means of tradeoffs is life expectancy itself. In 1970, the female life expectancy at birth was estimated to be 61 years, versus only 55 years for males. See article by Concepcion and de Guzman in Encarnacion (1976).

expended of the members of the family must be lumped up. Economic equity within society is properly evaluated by comparing the economic well-being -- proxied, let us say, by income --between families rather than between members of one family, or between the different sexes.

However, in making such comparisons, it should be stressed that some interfamily differences are less socially distressing than others. Economic inequity, as distinguished from inequality, consists in those differences, which by society's standards are underserved, in economic well-being between families. 35 differences may be socially acceptable, for instance, those due to differences in age structure. A family of five working-age adults may have a greater income than a nuclear family of a married couple with three young children. Unless society considers it unfair that the age structures of different families are dissimilar, the consequent income differences can be regarded as "natural" in the sense of being inoffensive to society's o francis (m. 1945) se superior de la contraction de la contractio standards of economic equity.

^{35&}lt;sub>See Mangahas</sub> (1975).

aum Chiesta la ranga aut pl'he asconge 16, 616 tipadh ann a nto a Che i reget escapa é acoprophe, product d'al legar legar segui de la compansión de la compansión de la c then obothoness interscript int forthis specifications. BLAST PARAMETER STATE AND SEASON OF THE SEAS esciety since femilies differ as to sex structure to Discripingsion speinst women is relatively more inequitable to those families with high fore larger CESTS PROPERTY OF THE PARTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PAR and developed appeals female which is the sea cabout 10 percent of Filiping familles Louis come to betarage are agos bus however are separated of the strength and arrengen diverced from their husbands. Some are never named and both many production of the sections and the sections. paged at a ground to women recessful sess pay or sembors the mela members are too young, too. Make cord poorly trained, or for some other teason income to the teason income to the state of the sound of the so saidness the sufficiently to the feetly a series of the the average is not the same as the variance. Because the distributions of strength of men and walker bion they disposition point is the staff of sill entail the treatists ... Anni Lorest, sometales .. ve. ney . super' more the tall mobility elember the endotes and increasing tendency for young free deto be separated from their families of pripagation to These young females will form so-called "one-person

egarhayhahihazingneza (na ta sedilitumban depilmeteat an individual women as though she were the same as the average woman. See Sandell (1972).

under situations of economic discrimination. Thus, as increasing spatial mobility breaks down families into smaller and smaller units, the distinction between family equity and individual equity gets less and less.

On the other hand, it may be argued that part of the difference in earnings potential between men and women should be attributed to physical differences. Here, the implicit view is that the attributed earnings difference should be considered "natural" or nondiscriminatory. For instance, the size and strength of females is on the average less than males, and this has been used as a ground for women receiving less pay on jobs where strength counts. (But, symmetrically. women should therefore also receive more pay on such jobs where smallness of size counts). Another point is that the average is not the same as the variance. Because the distributions of strength of men and women overlap, then in principle, strong women should get paid more than weak men in jobs where strength counts, and small men should get paid more than large women in jobs where small size counts. 36

The point is that it is discriminatory to treat an individual women as though she were the same as the average woman. See Sandell (1972).

Obviously, there is the difference in biological roles. Child-bearing, as well as breast-feeding, cannot be transferred to males. Thus work discontinuity, to some extent, cannot be helped either, and therefore, some people may feel that it is natural that women, on account of their work discontinuity, should get less on-the-job training, less promotions, etc. 37, Of course, there are also certain economic advantages from women's biological functions, but in modern society employers cannot reap these gains. 38 The State Control of the Control

to apply the property of the

The second of the second of the second

³⁷ Sandell (1972) points out that the burden of the risk of providing training for women can be shifted away from firms to appropriate public institutions. This can lead to a greater equality of pay per unit of time, even though it cannot change the fact of discontinuity of work for women. Therefore, there would still be lesser market income earned by females due to lesser hours worked, rather than due to lesser pay per unit of time; in this case the smaller income might be treated as a socially acceptable inequality.

³⁸ One recalls that women in slave societies could be used as breeders. In modern societies, such advantages cannot be internalized by economic producing units, with the possible exception of the farm family. It may be argued that farm wives can produce more workers for the family, which will lead to economic benefits for parents in their older years.

Another reason for income inequalitites which may be regarded as socially acceptable is that of rank, ... While accepting that persons of higher rank should receive higher income, one can question whether high ranks are equally open to males and females. Fox (1964) argues that, in the Philippines, leadership and the maintenance of discpline are traditionally male functions, and that this may explain why few women attain and positions of high rank. Cohen (1971) reports that women do not complain so much about discrimination in the way of low pay for equal work as much as about their poorer chances for promotion as compared to males. Tidalgo (1975) says that discrimination against women with respect to promotions is camouflaged by employers' claims that those in higher ranks have the qualifications of "leadership and "ability to work with others". potential,"

Thus, any model may list several determinants of differentials between men and women with respect to income, or other economic advantages and disadvantages. 39

³⁹For instance, Cohen (1971) classified the following reasons for sex differences in compensation-(1) wage discrimination, (2) occupational tradition, (3) special demands by women concerning their working conditions, and (4) qualifications and productivity of females versus males.

However, the user of any model still has to put in his own values as to which reasons for the differentials are justifiable or equitable, and which are not. Perhaps one can even admit that there may be degrees of "justifiability". For instance, one may wish to classify as unjustifiable the differentials due to the various types of economic discrimination which have been described. One can find objectionable the unequal access of women to the various types of human capital. On the other hand, one may wish to consider differentials in earned income due to differences in productivity related to size and strength as justifiable.

We may also speculate that families are probably cognizant of sex economic inequity and can take action to compensate for it. For example, if the family can afford to send all of its children to college, it may allow the females, rather than the males, to continue into graduate training. Or it can decide to give females a larger inheritance of property than males. Fox (1964) asserts that the property which a woman brings to marriage is hers; if she dies childless then her property is supposed to go back to her siblings or else to her parents.

However the empirical base for this assertion is not stated.

Another issue is that of selective mating; this can both compensate for inequities as well as intensify them, although the latter is more likely. In the Philippines, there appears to be a very high correlation between husband's education and wife's education, thus indicating the existence of positive selective mating.

In conclusion, it should be emphasized that these many issues concerning justifiability or acceptability cannot be resolved by economic theory — this is where society's values enter, and need to be articulated What socially-oriented economic model—building can try to do is to recognize these many areas of possible conflicts of values, and make an effort to be sufficiently detailed in order to be meaningful to alternative, even opposing, social viewpoints.

ROTATION OF THE PROPERTY OF ARCHITECTURE OF A CONTRACT OF THE PROPERTY OF

化砂罐重量 医外侧 的复数人名英巴基尔 化二氯磺酚 经数据 经现代帐间 化二二烷烷基二烷烷基二烷基

The second of the second of the second of the second of

As Mincer (1970) points out, if family income is defined as the sum of husband's income and wife's income, then the variance of family incomes is equal to the sum of the variances of husband's income and wife's income, plus twice the co-variance between the husband's and wife's incomes.

CHAPTER 3

LABOR FORCE PARTICIPATION OF WOMEN

3.1 Determinants of Labor Force Participation

of the state of

In this, section we present, the results of our attempt to estimate a labor supply function for married women. In studying labor supply, we view the individual's participation in the labor force as a two-stage decision. The first stage involves the individual's decision to enter, or not to enter, the labor force - i.e., the determination of one's labor force status. The second stage, which applies only to those who join the labor force, is the decision on the extent (or degree) of one's participation - i.e., I king the light of the contract of type : the determination of the working hours of the labor force participant. Thus we have run two sets of regression equations a first set on the determinants of the labor force status of the married woman and a second set on the determinants of the working hours of the employed married women. The party of the same of the term of the same of the same

The explanatory variables which we investigated are outlined briefly in Table 3.1. The criteria used in the selection of these variables were:

1) their expected relation to labor force participation as predicted by labor supply theory;

2) their successful application in the estimation of female labor supply functions in similar studies done for other countries 1/ and for the Philippines; 2/ and

light congress to the following before the

3) the availability of the data.

These candidate explanatory variables are explained in detail in the succeeding paragraphs.

Own Wage (I) - Labor supply theory presents labor. force participation as a choice among three alternative and uses of time: market work, home-work and leisure where the opportunity cost of time spent on leisure or home-work is the income forgone by non-participation in market production. Labor force participation is thus viewed as a function of one's wage (or potential wage). A high wage means a high "price" for non-market-time and thus a low demand for it, i.e., greater participation in the labor force. At the same time, the same high wage means a high income and thus a high demand for leisure, which is viewed as a normal Thus wage has both a substitution and an income Confidence of the second of the second effect, which have conflicting influences on labor force participation. The Control of the Co

^{1/}For the United States, pioneering work along this li was done by Mincer (1962). Other American Studies were Cain (1966) and Bowen and Finegan (1969). For developing countrie other than the Philippines there are among others, two papers presented as working paper of the ILO's World Employment Programme: Angulo and de Rodriquez (1975) and Peek (1975).

2/Encarnacion (1973b).

to be feet to the make TABLE 3.1 to the engineer of the

CANDIDATE EXPLANATORY VARIABLES IN THE DETERMINATION OF LABOR FORCE STATUS (LFS) AND NUMBER OF HOURS WORKED (NHW) OF MARRIED WOMEN (Expected signs of the regression coefficients Material are enclosed in brackets) who have the same of

- The god out out parts of the Own Wage: substitution effect (+) and income effect (+ or -)
- II. Husband's Income: expectations on husband's contributions to family's market income (-) Company of the second
- 1990年,**建**农主义(2016年) Demand for Market Production (Labor Market Conditions)
 - *A. Unemployment rate: discouraged worker effect (-)
 - В. Nature of Available Job Opportunities
 - 1. Location: Urban (- for LFS), (+ for NHW)/rural (+ for LFS), (- for NHW)
 Type of Household: farm (+ for LFS),
- (- for NHW)/non-farm (- for LFS), (+ for NHW) Political Control for Confidence
- IV. Demand for "Home" Production
 - A. Presence of Younger Children (-)
 - B. Availability of Substitute Labor at Home (+)

er and the common and control for the forgraphers

The Secretary of the Alberta Control of the School

- V. Household Size (+)
- **VI. Nature of Employment was a second a carrier and the
 - Class of Worker A. B.

roses to model the research of the control of the c

Company the Commence of the

which is the same of the side of the property of the second of the same) and the

- Industry
- C. Occupation

*For equations on LFS only. **For equations on NHW only. Husband's income (II) - The household decided on the allocation of the time resources of an individual member based on its expectations on the contributions to income of other members. The husband's income is thus used as a proxy for the household's expectations on his contribution to market income. If these expectations are high then the wife's time would be more optimally allocated to home production and her labor force participation would tend to decline.

Unemployment rate (III.A) - One's decision to join the labor force may be influenced by existing demand conditions in the labor market or specifically by one's expectations on the availability of employment opportunities. This means that when the unemployment rate is high, potential labor force participants are discouraged from joining the labor force (hence the term 'discouraged worker''). The unemployment rate has also been used to reflect the additional worker hypothesis 3/where a high unemployment rate would imply lower household incomes and hence greater participation of married women. However, this is necessary only when analysis is based on aggregated data, as for example on data for regional or area groups. When dissagregated (household) data is used, as in the present study,

 $[\]frac{3}{e.g.}$, Bowen and Finegan (1969).

additional worker effects are much better represented using the husband's income. 4/

Nature of Job Opportunities (III.B) - In urban areas where the formal industrial and service sectors prevail, job opportunities are usually structured, taking the worker away from the home and demanding regulated working hours. This means that married women would tend to avoid participation in market production more strongly in urban than in rural areas. However, once employed they would maintain longer working hours in urban areas. Likewise, there will be contrast between the participation of married women in farm and affilioner und s in non-farm household. The woman belonging to a farm household would easily find opportunity to participate in production activities on the farm. At the same time, she usually keeps less regular, and shorter, working Phours: 5/ name of the fitting appropriate to

onese, com as objectives of week as a section of a second of the

^{4/}See Mincer (1962).

^{5/}Mangahas (1973) notes that the term urban could be misleading. Oftentimes, areas which are classified as part of the urban sector are geographically in the countryside. For the sample used in this study, the correlation between the dummy variables for location (LOC) and that for household type (HT) was - 0.56141.

Demand for "Home" Production (LV) - The woman's relative efficiency in home production makes her the logical choice in the assignment of home produced services. And of her duties at home, the most time consuming and the most urgent is the care of children at infancy and at the pre-school ages. The presence of younger children is thus expected to be a negative influence on her labor force participation. At the same time the availability of substitute labor at home (e.g., elder children, other relatives or domestic help) will relieve the mother of her responsibilities at home and free her from market participation.

Household size (V) - To a large extent, the household's need for income depends on the size of the household. A household with more members will be supported sufficiently only with higher income.

Nature of Employment (VI) - Once a woman has been employed, her hours of work may be influenced by the nature of her employment, for example, her class of worker, industry or occupation.

September 1998 - September 1998
 September 1998

Jande Community Bender of the property of the pro

from a gr

3.2 Data and Notations

The data used in all the reported regressions in this and the next section were taken from the 1968 NDS. Although questions have been raised as to the reliability of certain aspects of the survey $\frac{6}{}$ the value of this rich body of data must not be underestimated. The NDS is a nationwide sample consisting of 7,237 households. our regressions on labor force status, our sample consisted of married women who were wives of the household heads, who belonged to households with complete records and for whom none of the variables included had entries "Not Reported". Our sample thus consisted of 5,860 women. sample for regressions on number of hours worked was limited further to include only women who were employed and who worked during the survey week, a total of 2,182 nominate generally women.

The notations for all variables used in this chapter and in the next are listed in Table 3.2. The definitions used for the various labor force concepts are the standard definitions enumerated in section 1.2 above. The regional unemployment rates used were computed from the sample and are listed in Table 3.3.

the graphy of the

 $[\]frac{67}{\text{See}}$ Encarnacion (1973b) and Raymundo (1975).

TABLE 3.2

DEFINITIONS OF VARIABLES
(Unless otherwise specified all variables refer to the wife)

CN4 = No. of children 4 years and below

CP4 = presence of children 4 years and below

Code 0 No child 4 years and below

1 With children 4 years and below

CW1 = class of worker: self-employed or employer

Code 0 not self-employed or employer

1 self-employed or employer

CW2 = class of worker: working without pay

Code 0 not working without pay
1 working without pay on family farm or business

If CW1 and CW2 both = 0, the class is wage and salary workers.

DH = presence of domestic help

Code 0 no domestic help
1 with domestic help

E = educational attainment

Code 0 no grade completed

retards and so the grade 1-4 like a large strong of

2 grade 5-7

3 Whigh school 1-3 because the limit to

(p, a, b, c, b) . Space any substituting (q, b, b, c, b) and (p, c, b, c, b)

4 high school 4

pater 32 and 3 to 5. (college, no degree and leave of the boat

6 college degree or more

EM = 0 if E < 3

= E - 2.75 if E > 3

EN = 0 if E > 3

= E - 2.75 if E < 3

TABLE 3.2

() I . EP no. of people aged 15-65 in household HS household size HT are rhousehold type and a principle of the same Coder O non-farm but the comment of farm has govier, and courtly be a client $IND_{\mathbf{Y}} =$ industry classification Code 0 not in specified industry 1 in specified industry where IND1 = Agriculture and the second and a second and a IND2 = Manufacturing IND3 = Commerce 1997 October 1997 IND4 = Transportation If INDx = 0 for all x, then industry is <u>services</u>. 经债券帐 医二直虫虫 LFS labor force status the to meet Code; of a notain the labor force as handens in the labor force . The 1987 of the company LOC location The Cart of the State of the St Code 0 Rural Urban no. of children the woman has had (live births only) NB no. of hours worked during the survey week NHW OCC occupation classification not in specified occupation Code 0 in specified occupation 1 Professional, technical and related where OCC1 = workers OCC2 =Proprietors, managers, administrators

and officials

7.344

TABLE 3.2 (Cont'd)

OCC3 = Clerical, office and related workers

OCC4 = Salesmen and related workers

OCC5 = Craftsmen, factory operatives and workers in related occupations

OCC6 = Service and related workers

If OCCx = 0 for all x, then occupation is farming.

U = regional unemployment rate

UM = regional unemployment rate for males

VL = length of vocational training

Code 0 No vocational training

1 less than 6 months

2 6 months

3 7-11 months

4 one year or more

YH = husband's annual income, in thousand pesos

人名英格兰人姓氏

The work of the first of the second section is

r inggerk, i skilaren bila. Grandria eta inggiriaren

医抗乳性畸形 医二甲基甲酰胺

grand grand and the state of th

YHM = 0 is YH < 1.5

= YH - 1.5 if YH > 1.5

YHN = 0 if YH > 1.5

pyto. y ₹13 YH - 1.5 if YH < 1.50% - 5 to be be to decor

A feet and the second of the s

TABLE 3.3

REGIONAL UNEMPLOYMENT RATES (Computed from the sample)

Marine the marine was the second of the seco

	Region	Unemp1	oyment F	lates
		Both Sexes		
	Manila & Suburbs	13.5	13.0	14.3
II.	Ilocos - Mt. Province	4.1	4.7 5.	3.1
III.	Cagayan Valley - Batan	es 1.4	1.2	1.6
IV.	Cèntral Luzon	16.1	12.8	21.4
v.	Southern Luzon & Islan	ds 9.4	9.1	9.8
VI.	Bico1	6.8	3.9	11.7
VII.	Western Visayas	8.6	. 8i.1	9.4
VIII.	Eastern Visayas	7. • 0 1 • 1 • 1 • 1 • 1 • 1 • 1	7.2	6.8
	Northern Mindanao			
	Southern Mindanao			

Addition of the second of the s

(2) "我想要我们的现在分词,我们们的一个人,我们们的一个人,我们们的我们的我们的我们的人,我们们们的一个人。"

3.3 Regressions on Labor Force Status

with a number of estimated equations on the labor force status of working women. In this section we present Encarnacion's findings as represented in two of his estimated equations (shown in Table 3.4) and report on a new regression equation which we have estimated. Encarnacion's data is taken from the same sample used by us except that it is limited to single-family, "nuclear!" type households (i.e., consisting of a couple and any unmarried children or unmarried relatives but excluding parents or grandparents of either spouse) where the wife has married only once and was under 45 years of age at the time of the survey. His sample is thus smaller than ours, consisting of 3,629 does observations.

The major contribution of Encarnacion's work is the verification of the existence of threshold levels for the husband's income and the woman's educational level in the influence of these variables on the woman's decision to enter the labor force. Encarnacion's hypothesis is that below a certain threshold level, the husband's income is insufficient to sustain the household at the subsistence level. The farther below this threshold

is the husband's income, the greater is the need to supplement it with his wife's earnings.

NEW STREET, THE CONTRACTOR

The woman's educational level is used to represent the wage (if employed) or her potential wage (if not employed). The five the high correlation between the educational attainment of the husband and of the wife (Encarnacion reports this to be .97), women with low educational attainment are assumed to belong to low income families. Hence, for these women, the income effect of wage on labor force participation will predominate. Beyond a threshold level, the need for additional income becomes less critical, hence the substitution effect will prevail.

estimated by Encarnacion. (At this point we must remind the reader that the dependent variable (LFFS) is a dummy variable which takes on the values 0 or 1 only. Thus the predicted value of the dependent variable should be interpreted - with reservations \frac{8}{} as the probability that the woman will enter the labor force). The first equation

^{1/}In section 4.2 we show that educational attainment is the best variable to use in predicting the woman's earnings and can therefore serve well as a proxy for her earning capacity.

This interpretation fails when predicted values lie outside the interval (0.1). /See Theil (1971) 7. Since our concern at present is with the signs of the regression coefficients rather than with their absolute values, we will ignore this problem in our analysis.

/Encarnacion's Regression (1) 7 presents the LFS function simply in terms of the threshold variables for the wife's educational attainment (EM, EN) and for the husband's income (YHM, YHN) and the wife's fertility (NB). The threshold values used for E and YH were 2.73 and 1.5, respectively. As predicted, the sign of the regression coefficient for EN (low educational attainment) is negative while that for EM (high educational attainment) is positive. The coefficient of YHM is not significantly different from zero (t-value=0.90) which suggests that the additional worker effect could be inoperative in the higher income levels. The coefficient of NB is small and is only slightly significant.

In the second equation /Encarnacion's Regression (2)_7 the variables LOC and U are added. The coefficient for LOC is not significant. The discouraged worker effect iso shown in the negative coefficient of U.

variables we ran a new regression adding the length of vocational training (VL), household type (HT), the number of children four years and below (CN4) and the presence of

to ki wilin india mangala selat betalahan anta - tengalah dajiri da

These values were arrived at by trial and error (to get 1.5 as the threshold value for YH) and by direct estimation (to get 2.75 as the threshold value for E). For a detailed account of their derivation see Encarnacion (1973b).

为我们就是我们的大学_的,只_{是我}不是一种的人,但是我们的人,我们还是这个人的人,这么是

TABLE 3.4

REGRESSIONS ON LABOR FORCE STATUS (LFS)

Variable	Encarnacion's Regression (1)*	Encarnacion's Regression(2)*	New Regression
EM		0.0815 (8.75)	
	(-7.09)	-0.0767 (-6.14)	0.01808 (-1,90516)
VL		44 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144 - 144	0.04400 (3.70370)
YHM	-0.0023 , (70.90 ₁₀)	-0.0020 (-0.79)	-0.00627 (-3.40761)
TIM	(-10.35:) ** ** ** ** ** ** ** ** ** ** ** ** **	-0.1538	-0.11298 (-7.53702)
LOC	grif (New Yorks) (1996) (1996) (1996) - Same Carlos (1996) (1996)		(-6.92737)
HT massive	in the second of	.	-0.03576 (2.25189)
CN ₄	QS of Majors to Reserve		0.08041 (5.01935)
DH	f(t,t,y) = 0	entergraphic description of the second of th	(-4.37268)
	an kalometra ang kalometra		0.12105 (4.27135)
	n 0.0039 per harang manggalan	(-5.99)	t tak talah dalah da Garapatan dalah
Constant	(1.30)	(1.54)	o de la composition de la composition La composition de la
R ²	dit.055 Tell in patterper	0.354	0.41247
S F	ing am of the following constraints		ty 0.4119 to year
Ote: Num	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	modest Alt Conse	50.23914

Note: Numbers in parentheses are t-values of regression coefficients.

^{*}From Encarnacion (1973b), Table 8, p. 29. Variable names have been changed to be consistent with ours but the definitions remain the same.

domestic help (DH). We also replaced U with UM, the regional unemployment rate of men. Surprisingly, the correlation between LFS and UM ($r_{LFS,UM}^{-}$ -0.14163) is higher than that between LFS and U ($r_{LFS,U}^{-}$ -0.12636) or that between LFS and the unemployment rate of females) (r_{LFS} , UF = -0.09621). This means that the unemployment of males has stronger discouragement effects on married women than the unemployment of females or overall unemployment.

The new explanatory variables performed well too.

Despite the presence of the education variables, vocational training came out as still significant in determining labor force status. The positive coefficient of the dummy HT means higher participation in farm than in non-farm households. As expected CN4 has a negative coefficient and DH a positive coefficient.

1931 E

Because of the significant results for the individual explanatory variables, the overall performance of the new equation is slightly better than the other two. \bar{R}^2 s of Encarnacion's equations are .055 and .064, respectively and that for our equation is .078. This means though that much of the variation is women's decisions to enter the labor force remains unexplained in the equations.

- 4fg -

TABLE 3.8

3.4 Retving loars of women in different employment atten-

(a) recruitee estimated moustions for the Called the server par reason (NIA) are president high (!) and ludes she the follow HARMET B. LACOURT CP4 . DH. AN ANGEL COMME The section of the part of the part of the second of the part of t indistractions represent the property and the contraction of the contr 0.39892 C 1989 | Per | educe t ing : which ideopped | A 0.51699 Markhon wertable E was used budgegan. T eille topik iggere a strong substitution of focult you the make the hours worked by the wolten the ment two confriences show that women mark langua house to inches them; (a phise forces (foc) and thereor house the formethan the manager household (HT). To show the effect of younger children we use CP4 which performs better the 4.10/ Apparently the number of children less than tour does not stenificantly alter the mother's working hours to the more presence of a child less than four. propinge of a child less than four reduces the woman's e de la constante de la consta gibours by 4.6 hours a week. When substitute labor LONE Paste at home (DH and BP) the mother's wasking periolingly increased and ends workened a late the some wise works longer builte.

hupbong die parentlest educite modern blos of routher than seefficionis which will equal to the solid of the tensions.

TABLE 3.5
REGRESSIONS ON NUMBER OF HOURS WORKED (NHW)

1 T

			20 2 - 100	(7)	
Variable	(1)			(3)	
	.14997	1.184	0.53948 (1.56253)	0.92700 (2.80841)	
	.34082) .35173	· · ·	2.75100	2.48734	
(°'3)	78748)		(2.72357)	(2.40290)	
	.01381 .56151)		-2.34074 -2.23971	-1.66813 (1.56239)	
•	.58661	24 - 1 - 114	-2.89782	-3.00372	
(- 5	.09193)	***	(3.46265)	(3.50664) - 2.26262	
	.54300 .62208)	1.18	-1.36960 (0.76196)	(1.23513)	
EP 0	.39892		0.85851	0.82644	
•	.27122) .51689		(3.59119)	(3.37405)	i
	.46584)	*	· · · · · · · · · · · · · · · · · · ·		
CW1	ere transcript	·	-3.29909 (1.82539)	0.68091 (0.35380))
CW2			-5.74304	-1.687,56	,
			(4.61337)	(0.79756))
OCC1			3.11257 (1.25927)		
OCC2			24.71260	· · · · · · · · · · · · · · · · · · ·	
		•	(9.82842)		
OCC3		17 - E	9.69598 (3.01772)	e til tyte i verkere en	
OCC4	. An in the specific of the second		3.46889	The second secon	
OCC5			(1.73504) 0.94658	4.1	
OCC3	the second		(0.48025)		
OCC6	e at the second		1.41349 (0.54844)	astronomic of the	
IND1			(0.34644)	-5.95220	
547 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	***· 1			(2.86975 -1.61900	
IND2	大大学的 100 mg			(0.77170	
IND3	graphic for the control of			8.86059	•
	ender i de la companya de la compan La companya de la co			(4.16313 1.61299)
IND4	er est		in the section of	(0.91798)
Constant 3	2.51979	6.	33.65330	33.42005 0.17138	
R231)	0.11228 5.42455		0.21168 14.54076	14.89674	
	5.35942	* 15.00 ×	25.66342	23.09485	

Note: Numbers in parenthesis are F-values of regression coefficients. These are equal to the squares of the t-values.

Regressions (2) and (3) were run to trace differences in working hours of women in different employment situations. In regression (2) we added a set of classificatory variables for class of worker and a second set for occupation. For class of worker, our omitted classification is the class of wage and salary workers. This means that the regression coefficient of CW1 can be interpreted as the difference in working hours between the self-employed woman and the wage earner, given the same occupation and the same values for the other explanatory variables. Similarly, the coefficient of CW2 is the difference in working hours between the unpaid family worker and the wage earner. The results show that the wage earner keeps the longest working hours, followed by the self-employed and then the unpaid family worker, other things equal.

Among the occupation groups the omitted classification is the group of farmers, farm laborers and related workers. 11/ All other occupation groups work longer hours than this group (farmers) except crafstmen and factory

and one of the contract of the project of the contract of the

^{11/}n addition to the specified occupation groups, an eight group, the group of manual laborers was represented. However, there were only 3 entries for this occupation group (0.14 per cent of the total sample) so we chose to ignore them. In effect, we classify them with the group of farm workers.

operatives (OCC5) and service and related workers (OCC6) whose coefficients are not significantly different from zero.

Source of the control of the control

In regression (3) we have substituted the industry variables for the occupation variables. Our omitted group is the service sector. Three sectors - mining/quarrying, construction, and utilities - are not represented. 12/ The coefficients for manufacturing (IND2) and transportation and communication (IND4) are not significant. Agricultural workers (IND1) work shorter hours and workers in commerce (IND2) longer hours than those in the service sector.

Name of the second of the second seco

Sagger Species of the Armania Sagarana Sagarana Sagarana

 $(-1,-1)^{-1} \cdot (-1)^{-1} \cdot ($

The state of the s

FOR THE STORY OF THE STORY OF THE STORY

Construction which had 3 entries and utilities with 9 entries (0.14 per cent and 0.41 per cent of the sample, respectively) were simply lumped together with the service sector. Mining and quarrying had no entry at all.

CHAPTER 4

INCOMES OF WOMEN AND A SECOND IN THE SECOND

Control of the second

It is unfortunate that in contrast to the volumes an an an antaighean a deach a the comh an dhachair agus an air an an air of data available on the labor force and employment ราช การ การเลก สังการ 1941 (วิวัย วิวัย เลก เลก การ โดยวิทยาก เทครั้ง เกาซ์ต จาก ซะโดยวิ conditions in the labor market, national data on income in the party of the complete the extention of the first and the first of the first from labor remains severely limited. The single major existing the state of the second second effort to collect data on income has been the NCSO's e to all all the larger gate at the course Family Income and Expenditure Survey (FIES), a series how.dign which, since 1957, has consisted of no more than four national surveys (conducted in 1957, 1961, 1965 and 1971). The value of these surveys are further limited by the fact that incomes are reported as total household income, distinguished by different sources of income, but not by the contributions to household income of individual members.

A researcher interested in studying variations in income, say between the sexes, is thus faced with a critical shortage of data and will have to content himself with one of two alternatives. The first is the FIES data on the distribution of households by income class, classified by the sex of the household head. This describes income levels of household in relation to the sex of the household head but does not in anyway show what proportion of family income was earned by the

rain the committee of the committee of the contract of the committee of th

1 8 3 3 4 4 1

head himself. Neither does it give any information on the incomes of non-heads. The second alternative data and the self of th . Turboro source is the report on weekly cash earnings of wage and salary workers available in the NCSO's Labor Force Surveys of the control of the statement of the control of the same since May 1969. This body of data allows us to estimate and the product of the boundary of the second of the second the incomes of female wage and salary workers. However, of the second contract of the second contract it leaves us in the dark as to the incomes of the selfand the control of the state of employed and unpaid family workers. of the section of the

In this section of our report, we explore the various factors which determine the incomes of working women. We tackle first the problem of male-female wage differentials, determining the extent to which they exist and the occupational and industrial areas where they prevail. We go on to other variables of supply and demand that determine the earnings of female labor, making use of regression analysis to pick out the relevant variables. Finally, we describe the institutional factors which contribute to the final determination of incomes.

4.1 Male-Female Income and Wage Differentials

Some evidence of differences in the incomes of males and females can be derived from an analysis of the Labor Force Survey data. In Tables 4.1 and 4.2 we use

data from the May rounds to estimate average hourly wage rates for males and females in various industry and occupation groups. Data on average weekly cash earnings are available only for 1969 to 1974. The 1967 survey reports median weekly cash earnings as well as median hours worked which are presented in lieu of averages.

Average hourly wages are estimated by dividing average weekly cash earnings by average hours worked per week.

Wage ratios - ratios of male to female wages - are also presented.

minimum all industries but one (transport, storage) and communication), men were earning more cash income than women (See Table 4.1). In agriculture, manufacturing and personal services other than domestic, the differences in incomes are explained by longer hours of work as well as higher hourly wages for males. In commerce and the domestic services, despite shorter working hours, men earned more than women because they received higher hourly wages. The domestic services in particular are marked by very high wage ratios which reached as high as 6.0 in 1972. In government, community, business and recreation of a contract to the contract to th tional services there were no observable sex differences ក្សាលាក មុលវេទ្ធ in wage rates where wage ratios ranged from 0.9 to 1.1 and the higher earnings of males are attributed solely

to longer working hours. It is only in the transport, storage and communication industries that females were paid higher hourly wages than males. Thus, despite shorter working hours their incomes are higher than those of males in this industry.

Table 4.2 shows similar differentials between the wages of male and female workers in the different occupation groups. Despite the fact that occupational grouping closely reflects the productivity of labor, distinct differences are observed between the hourly wages of males and of females in all the occupation groups. Thus wage ratios are greater than one for all occupation groups, reaching as high as 5.5 in the service sector and with values slightly over 1.0 in the professional, managerial and clerical groups.

More direct evidence of wage differentiation between the sexes is presented by Tidalgo (1975) in her analysis of the Philippine wage structure. Tidalgo estimates regression equations explaining wages in terms of industrial group, occupation or skill, regional group and sex. Her date is taken from the household sample of the LFS of May 1969, including only wage and salary workers who worked during the survey week and whose weekly cash earnings did not exceed \$90.00.

AVERAGE BOURS WORKED PER WEEK, AVERAGE WEEKLY CASH EARNINGS AND AVERAGE HOURLY WAGES OF WAGE AND SALATY WOFKERS, MALES AND FEMALES, FOR SELECTED INDUSTRY GROUPS; MAY ROUNDS

Year Ave. we per w (1) Agriculture, 19571/40, 1969/44, 1971/45, 1972/45, 1973/46, 1973/46,	Ave. hours worked G per week (1) ure, forestry, 40.8 44.9	Ave. Weekly Cash earnings	Ave. hourly	Ave. hours	Ave. Weekly	Ave: hourly	(Y (
cultur 1/	• •	8	(3)=(2)/(1)	worked per week (4)	cash earnings (5)	Wage $(6) = (5)/(4)$	Wage Ratio (7)∓(3)/(6)
/1	© 4 € © 0 €	hunting and	fishing				
•	Q 4		•	37.8	7	F	2.0
	*	22	. 50	37.0	13	7.	1°3
	t • ?	37	ස	40.2	17	7.	2.0
	45.8	.28	9.	37.1	16	7.	1.5
	9.44	33	.7	36.0	18	٠.	7.1
	6.44	. 40	6.	36.2	27	7	E.
Manufacturing	ne.	* .			4		•
$1957^{1/}$ 40	44.2	22	5.	40.3	10	.2	2.5
	47.6	17	7	40.4	25	9•	1.5
	48.5	57	1.2	45.0	. 29	9.	2.0
	48.1	28	1.2	43.5	30		1.7
1973 47	7.4	. 65	1.4	43.4	36	ಹ	 8
1974 47	7.4	69-	1.5	42,8	37	6.	1.7
Commerce	٠,				· • •		
$1957^{1/}$ 44	44.5	27	9.	43.9	67	.2	3.0
	46. 0	55	1.2	47.1	31		1.7
	1.64	63	€ -T	50.1	7.5	1.5	6*0
	7.2	63	۳. ۲.	49.7	36	7.	1.9
•	8.2	70	1.5	49.2	47	1.0	1.5
1974 47	7.3	82	1.7	50.0	24	1.1	1.5
N						The state of the s	

T	٢	T					·			٠						-						ý				
The strategy and the strategy of the strategy		Wage Ratio	(7)=(3)/(6)	· ·		c	ဘု စ ၁ (0 10	\	• 1				3, C	λ, ο	ન . વ્યુ•	⊃ o -i c	; r.	*	C) t	, c	200	2.0	2.5	
A STATE OF THE STA		Ave. hourly Wage	(6)=(5)/(4)	, ,		-	1.0	i —	1.4	1.8	.	1 4 2	α	• -	tiu 1 e	1 t	1.8	1.9	:	-	7.	.2	. 7	.2	.2	
	emales	Ave. Weekly cash earnings	(6)		ı	51	57	72	65	. 82			34	58	29	75	7.8	82		5	6	11	10	12	74	£ 4.
	£1	Ave. hours worked per week (4)			1 0	4.84	45.7	٠, 4 د د د		47° 0			1.24	42.2	45.1 .5	44.3	44.3) }		8.00	46.7	00.4 67 m	C./C	58.1 58.1	4	
		Ave. hourly Wage (3)=(2)/(1)			۽ م) C	7 0			recreational services	7	· (*	ጉ • • ⊢) r	, · · ·	2 • 0		•	- e		1.2		٠ •	***	
Malas	8	Ave. Weekly cash earnings (2)	and communication	2.1	45	52	52	. 95	63	business and rea		29	8	7.6	3	255	25		7	17	35	. 63	-17	29		
	Ave. hours	worked per week (1)	rt, storage	9.44	51.4	52:7	6767	48:2	49.2	community		44.2	46.6	47.9	47.7	47.4	47.5	Services	48.7	9.67	56.3	53.4	52.3	54.9	With the second	
		Year	Transport,	$ 1957^{\frac{1}{2}} $	1969	1971	1972	1973	1974	Gov't.	1/	1957=/	1969	1971	1972	1973	1974	Domestic	$1957^{1/2}$	1969	1971	1972	1973	1974		

(Cont'd)

TABLE 4.1 (Cont'd)

		Males			Females	es	
Year	Ave. hours vorked per week (1)	Ave. Weekly Ave. hourly cash earnings Wage (2)	Ave. hourly Wage (3)=(2)/(1)	Ave. hours worked per week (4)	Ave. Weekly Ave. hourly cash earnings Wage (5) (6)=(5)/(4)	Ave. hourly Wage (6)=(5)/(4)	Wage Ratio (7)=(3)/(6)
Personal	services otí	Personal services other than domestic	ic				
$ 1957^{1} $	48.5	16	£.	39.7	O	.2	1.5
1965	48.7	640	∞.	47.4	19	7.	2.3
1971	51.6	52	1.0	51.7	24	٨.	2.0
1972	49.0	94	6.	50.4	25		1.3
1973	49.5	50	1.0	48.3	26	• 5	2.0
1974	50.0	58	1.2	8.64	28	9•	2.0
-	• .			e · · · · · · · · · · · · · · · · · · ·			

1/Nedian hours worked and median weekly cash earnings were used.

-None reported in sample households

Source: National Sample Survey of Households (NSSH), previously called the Bureau of Census and Statistics Burvey of Househol's (BCSSH) and earlier the Philippine Statistical Survey of Households (PSSH).

AVERAGE HOURS WORKED PER WEEK, AVERAGE WEEKLY CASH EARNINGS, AVERAGE HOURLY WAGES OF WAGE AND S^LARY WORKERS, MALES AND FEMALES, FOR SELECTED OCCUPATION GROUPS; MAY ROUNDS

Ave, hours worked Ave, Weekly Ave, hourly per week cash earnings Wage (4) (5) (6)=(5)/(4) 43.0 38 .9 42.5 62 1.5
Ave. Weekly cash earnings (5) (5)
38
,
42.6 69
44.9
8 89
, ·
1
*
103
*
1 142
•
.9 27
1-48
60
.3 63 63
.3
.4

(Cont'd)

TABLE 4.2

	M	fales			Females		
	Ave. hours			Ave, hours			
Year	worked	Ave. Weekly	Ave. hourly	worked	Ave. Weekly	Ave. hourly	
	per week	cash earnings	Wage (3)=(2)/(1)	per veek	cash earnings (5)	Wage (6)=(5)/(4)	Wage Ratio (7)=(3)/(6)
	(1)	(7)	(3)=(7)(1)	(+)	(5)		וי
0	and related	related workers	•				
$1957^{1/2}$	46.5	23	5.	44.1	œ	.2	2.5
1969	65.5	42	6.	47.9	18	4.	2.3
1971	6.67	56	1.1	51.0	24	2	•
1972	6.74	53	1-1	50,3	22	4.	2.8
1973	48.8	59	1.2	6.67	26	٠,	2.4
1974	47.7	61	1.3	51.7	29	9.	2.2
Farmers,	farm laborers,	s, fishermen and related workers	lated workers	uent ent			
1957 ¹¹ /	40.6	6	. 2	34.4	7	: 	2.0
1969	9* 77	21	ئ.	36.9	13	4.	•
1971	45.1	37	ω.	40.2	16	4.	2.0
1972	45.5	27	9.	37.2	16	4.	1.5
1973	7.4.1	31	.7	35.8	17	٠,	1.4
1974	42.7	38	6	35.9	22	9.	٠. ١
Craftsmen,		production-process workers & 1	related workers				
$1957^{1/2}$	44.5	22	5.	40.2	6	.2	2.5
1969	47.1	38	æ.	49.2	22	£.	9°T
1971	47.3	54	-	44.7	25	9•	œ.
1972	47.7	67	1.0	43.1	. 52	9.	1.7
1973	46.7	54	1.2	43.3	30	.7	1.7
1374	46.4	58	1.3	41.7	31	. 7.	1.9
		· · · · · · · · · · · · · · · · · · ·	The second of th	\$	The same of the sa	A CONTRACTOR OF THE CONTRACTOR	:
		Wild Branch Committee Comm					