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PRELIMINARY DATA ON NON-FARM EMPLOYMENT CHANGES
IN AN AGRICULTURAL SUB-REGION

by

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INTRODUCTION

This paper presents preliminary data from a case study of nonagricultural change in a sub-region of Nueva Ecija Province in Central Luzon. The study area was the immediate trade region of the town of Gapan, including three adjacent Rural Towns -- San Isidro whose municipality is well irrigated and thus relatively wealthy, Penaranda which is upland and poor, and San Leonardo which occupies an intermediate position between the two. The study variables are non-agricultural jobs in formal establishments. Establishment surveys were used to reconstruct the history of such non-agricultural employment between 1961 and 1971, with special emphasis on 1967-1971. The year 1967 was the last year before the new high yielding varieties (HYVs) of rice became statistically significant to production in this monoculture, rice area. Yields between 1967-1971 rose roughly 25% in the area and rough calculations suggest farm family incomes probably rose by the same proportion over the period. The research is attempting to correlate changes in non-agricultural employment with this change in farm incomes.

In order to place the case study results in perspective, certain definitional problems must be clarified. The design originally posed the question, "what is the impact of agricultural modernization on non-farm employment?" "Non-farm" was finally defined as encompassing all

non-agricultural employment in and around agriculture market centers (AMCs), in other words all non-agricultural employment in the countryside with its towns and cities. Attempts to identify the magnitude of non-farm employment, using special tabulations of October, 1968, Labor Force Survey data, suggest the following breakdown of non-agricultural employment nationally:

Major Urban Areas 25%
"Countryside" 75%
20 Regional Centers 5%

70%

Sub-Regions

Major urban areas encompass Manila, Cebu, Iloilo, Davao, Iligan and their "urban shadows" plus various lesser non-agricultural enclaves. Thus, the twenty "Regional Centers" refer not to national regional centers but to agricultural market centers serving agricultural regions. In the case of Central Luzon these regions roughly coincide with the provinces. The "Gapan-area" is the core of the sub-region comprising southern Nueva Ecija. Gapan, the trade center for the sub-region, we classify as a Local Center. All other towns are classified Rural Towns.

It is clear from this disaggregation that non-farm employment, accounting for 75% of non-agricultural employment nationally -- and roughly 30% of all employment in the countryside -- is a strategic variable in labor absorption trends. What is also clear is that the subregions are the key areas, accounting as they do for 70% of the total. The Regional Center are not that important, especially when it is realized that a large part of the 5% of total non-agricultural employment in them is attributable to the Local Center function they perform with respect to the sub-region in which they are situated. (See I.E.D.R. Discussion

Paper 72-17, Evidence on Agriculturally-Based Cities, for a description of pattern of change in the Regional Center, Cabanatuan City, which serves the Gapan-area sub-region.)

Thus, an important point has emerged from the research. During the past decades of industrial- and export-led growth in LDCs, we have come to think of development as a process which works from the top down. But in the case of agriculture-led growth such as we are witnessing in the 1970s in the countryside, development moves from the bottom up. As a result, "intermediate urban areas" like the Regional Centers, which are currently being perceived as existing or potential lower-order "growth poles", are in fact the opposite. They are service centers whose growth is derived from that coming from below, from the sub-regions. They are importantly Local Centers for their sub-region, certain specialized functions required by the region being grafted onto them. This is not to say they could not be utilized as growth poles given appropriate policies for encouraging regional balance. But it appears that the solutions to the problems rural-urban balance may be found at a lower level, in the sub-regions like the Capan-area.

PRELIMINARY RESULTS OF GAPAN-AREA RESEARCH

The statistical appendices to this paper provide a breakdown of non-farm employment in the study area for 1961, 1967, and 1971 by industry. It is tabulated separately for each municipality. The first table (unnumbered) provides a summary by industry groups, showing 1971 employment and the percentage change between 1967-1971. A time-constraint prevents us from presenting a full analysis of this data at this time.

The main qualifications as regards this data are as follows. First, it is gross data in a number of cases where the variable measured has substituted for an unmeasured industry. This is most relevant to tricycle employment which has substituted for calesa-related employment, estimates of which are not reflected in the data. The second case is of tailoring and dressmaking where only firms which are operating as formal establishments (usually in shops in town) are counted; those that moved to town from working at home have not been netted out. On the positive side, the data for tricycle and tailoring/dressmaking may be taken as valid indices of the "modernization" or "formalization" rates in these areas.

Second, the summary table is based on regular, full-time jobs, excluding the seasonal employment reported in the industry tables.

Because non-agricultural firms in the Gapan-area avoid seasonal hiring and use overtime instead, this provides the most stable representation of changes in labor absorption. It does, however, understate the importance of the construction and rice milling and handling industries in the structure of employment. (Since the tables were prepared, new survey data has shown that the seasonal employment in rice milling is significantly overstated in them. It seems the Gapan-area mills also have managed to a considerable extent to avoid seasonal hiring, in part by throwing the burden of it back into the agriculture sector.)

Third, the data for 1961 is of uncertain quality as yet. It significantly unstates the situation in some industries. In general, however, it provides useful orders of magnitude.

Fourth, industry tables are not provided for education (teachers) and a few other industries where it is not very complicated or significant.

A BRIEF ANALYSIS

One can see, by comparing the summary and industry tables, clear evidence of a significant positive income elasticity of demand -- which we know comes prominently from farm families -- for the following goods and services of local production: personal and recreation services (especially "eateries" and bowling/billiards/movies), tricycle services (very strong demand and profitability around 1968 was followed by strong entry and the demise of the calesa), clothing, secondary education (which is costly and essentially privately financed, whether in public or private institutions), house furnishings, and housing construction and up-grading.

The Manufacture for Regional Demands -- mainly slippers and rattan furniture -- is notable for two reasons. First, its customers are mainly from agricultural market centers so we may take its growth as being derived from agricultural modernization as well. Second, in accounting for nearly 10% of total non-farm employment and being mainly a creature of the last four years, it illustrates how important a specialty industry can be to a sub-region.

The Totals A, B, and C are tentative aggregations attempting to isolate the "income effect" (Total A) and the "output effect" (Total C) of higher farm productivity. Total B is a catch-all category which in the main is industries which are responding less directly to economic changes. In the latter, medical services are interesting in that they reflect the establishment of two small private hospitals in Gapan, facilities formerly

available only in the Regional Center. Also interesting is that government employment is definitely not a significant source of labor absorption.

Growth in Total C importantly reflects the fact Gapan is a rice milling center for more than its sub-region, bring palay in from areas farther north. There was a roughly 25% increase in mills between 1967-1971 as a result of the availability of liberal government financing for this purpose during the period.

Lastly, if one examines closely the summary table, one can discern the spreading of non-agricultural activity to the Rural Towns as the base of consumer spending has broadened. Gapan still is the "primate city" for certain services such as tailoring, surprisingly enough, where style-consciousness and the label is important. But relative stagnation of Gapan's construction materials manufacture and construction contractors reflects the Rural Towns' developing their own capabilities in these industries. The differential growth rates of secondary teachers in Gapan and the Rural Towns reflects the catching up of the latter as a larger reservoir of unmet demands is gradually being satisfied. (We have statistics on enrollments over the past 15 years to support this obervation.) The relatively fast growth rate of tricycles in Rural Towns similarly reflects the broadened base of income and wealth. Most of these tricycles are owner-operated and the downpayments on their installment purchases are mainly financed by farm families, directly or indirectly.

In sum, the preliminary data shows clearly that non-agricultural employment in the sub-region has been significantly responsive to changes in agricultural incomes. The extent to which household consumption and

investment demands in the sub-region are satisfied by local production with a high local value-added will be the basis for developing further the argument that in the case of agriculture-led growth development occurs essentially from the bottom up, not from the top down.

MON-AGRICULTURAL ACTIVITIES IN THE GAPAN-AREA. NUEVA ECIJA PROVINCE

	Gapa Employ No.	yment [*]	% Increase ('67-71)	RuralTo Employm No.	<u>ent</u>	% Increase ('67-71)
COMMERCE AND SERVICES Retail: Traditional Goods/Services Retail: Non-Traditional Goods/Services Personal and Recreational Services	753 428 68 257	21	46 41 42 58	495 282 11 202	2 0	43 48 120 34
MFR. FOR HOUSEHOLD CONSUMPTION Manufacture for Local Demands Manufacture for Regional Demands	487 158 329	14	170 93 234	337 139 198	14	47 25 66
LIGHT TRANSPORT RELATED GROUP Tricycles, Jeeps, Light Repair Shops	653 653	18	$\frac{140}{140}$	454 454	18	$\frac{274}{274}$
HOUSEHOLD INVESTMENT RELATED Secondary Education (Teachers) Housing Components & Furnishings Mfr. Construction Materials Mfr./Supply Construction Contractors	428 71 68 152 137	12	24 25 74 6 29	214 94 39 51 30	9	65 49 70 76 100
TOTAL A	(2,321)	(65)	(78)	(1,500) (61)	(81)
PUBLIC SERVICES Governments Primary Education (Teachers) Medical Services Utilities, etc.	677 241 321 70 45	19	28 5 34 125 67	632 148 406 54 24	25	18 20 15 23 41
→TOTAL B	(677)	(19)	(28)	(632) (25)	(13)
AGRI. INPUTS, PROCESSING & TRADING Agricultural Implements & Supply Rice Milling and Trading Palay Traders & Independent Truckers	434 28 399 7	12	31 75 29	284 3 268 13	11	46
Mfr., Maintenance/Repair Firms	118 118	4	<u>51</u> 51	<u>71</u> 71	3	<u>37</u> 37
TOTAL C	(552)	(16) .	(35)	(355) (1	14)	(41)
GRAND TOTAL	3,550	100	<u>58</u>	2,487 10	00	54

^{*} Regular (Full-Time) Employment in 1971

Table -c

Labor Absorption in

RETAIL: NON-TRADITIONAL GOODS AND SERVICES

	No. of Firms 71 67 61	Employment 71 67 61	Store Fronts in Use 71 67 61
GAPAN	30 19 6	68 48 14	<u>35 24 10</u>
Hardgoods Hardware/Electrical Supply Auto/Cycle Supply	11 9 2 13 7 4 6 3 -	21 20 4 36 22 10 11 6 -	11 9 2 18 12 8 6 3 -
RURAL TOWNS	9 3 -	<u>11 5 -</u>	<u>9</u> 3 -
San Isidro San Leonardo Peñaranda	2 5 2 - 2 1 -	2 6 3 - 3 2 -	2 5 2 - 2 1 -
Hardgoods	<u>7 3 -</u>	9 5 -	7 3 -
San Isidro San Leonardo Peñaranda	1 4 2 - 2 1 -	1 5 3 - 3 2 -	1 4 2 - 2 1 -
Hardware/Electrical Supply	1	1	<u> </u>
San Isidro San Leonardo Peñaranda	1	1	
Auto/Cycle Supply	1	1	1
San Isidro San Leonardo Peñaranda	1	1	1
GAPAN AREA TOTALS	39 22 6	<u>79 53 14</u>	44 27 10

Table -c

<u>Labor Absorption in</u> PERSONAL AND RECREATIONAL SERVICES

	No. of Firms 71 67 61	Employment	Store Fronts in Use 71 67 61
GAPAN	98 62 32	257 163 88	<u>101 69 35</u>
Restaurant/Refreshment Billiards/Bowling/Movies Barber/Beauty Shops Other	36 22 10 12 8 5 34 19 6 16 13 11	108 65 30 32 27 21 65 34 7 52 37 30	38 28 13 13 9 5 34 19 6 16 13 11
RURAL TOWNS	<u>98 59 29</u>	202 151 3 8	98 59 29
San Isidro San Leonardo Peñaranda	43 26 14 39 22 8 16 11 7	69 44 17 87 62 9 46 45 12	43 26 14 39 22 8 16 11 7
Restaurant/Refreshment	<u>27 15 3</u>	69 36 5	<u>27 15 3</u>
San Isidro San Leonardo Peñaranda	10 4 - 13 9 1 4 2 2	23 11 - 30 21 1 7 4 4	10 4 - 13 9 1 4 2 2
Billiards/Bowling/Movies	<u>19</u> <u>5</u> <u>1</u>	<u>75 61 2</u>	<u>19 5 1</u>
San Isidro San Leonardo Peñaranda	7 9 3 1 3 2 -	11 37 30 2 27 31 -	7 9 3 1 3 2 - !
Barber/Beauty Shops	<u>47 36 25</u>	<u>55 42 31</u>	47 36 25
San Isidro San Leonardo Peñaranda	24 21 14 16 9 6 7 6 5	28 25 17 18 9 6 9 3 8	24 21 14 16 9 6 7 6 5
Other	<u> 5 3 -</u>	<u>12</u> <u>12</u> <u>-</u>	<u> 5</u> <u>3</u> <u>-</u>
San Isidro San Leonardo Peñaranda	2 1 - 1 1 - 2 1 -	7 8 - 2 2 - 3 2 -	2 1 - 1 1 - 2 1 -
GAPAN AREA TOTAL	196 121 61	<u>459</u> <u>314</u> <u>126</u>	<u>199</u> <u>128</u> <u>64</u>

Table -d

MANUFACTURE FOR LOCAL DEMANDS

	Regulars 71 67 61	Part-Time 71 67 61	Full-Time Eq. 71 67 61	% Increase (Dec) 67-71 61-67 61-71
CAPAN	<u>158 82 54</u>	67 28 20	<u>176 92 60</u>	
Bakeries, etc. Tailoring in SFs Dressmaking in SFs	69 34 15 66 35 33 23 13 6	27 15 9 31 8 9 9 5 2	77 39 17 74 39 36 25 14 7	
RURAL TOWNS	139 111 40	46 12 4	<u>155 115 41</u>	
San Isidro San Leonardo Peñaranda	65 66 18 60 32 13 14 13 9	19 3 1 23 5 - 4 4 3	74 67 18 67 34 13 14 14 10	
Bakeries, etc.	<u>39 53 13</u>	<u> 19</u> <u>-</u> <u>-</u>	<u>48</u> <u>53</u> <u>13</u>	
San Isidro San Leonardo Peñaranda	27 46 6 10 4 3 2 3 4	13	34 46 6 12 4 3 2 3 4	
Tailoring in SFs	<u>71 46 15</u>	<u>24 11 3</u>	77 50 <u>16</u>	
San Isidro San Leonardo Peñaranda	29 15 7 32 23 3 10 8 5	3 2 - 17 5 - 4 4 3	30 16 7 37 25 3 10 9 6	<i>i</i>
Dressmaking in SFs	29 12 12	3 1 1	30 12 12	
San Isidro San Leonardo Peñaranda	9 5 5 18 5 7 2 2 -	3 1 1	10 5 5 18 5 7 2 2 -	

MANUFACTURE FOR REGIONAL DEMANDS

	Regulars 61 61	Part-Time 71 67 61	Full-Time Eq. 71 67 61	% Increase (Dec) 67-71 61-67 61-71
<u>GAPAN</u>	<u>329 98 82</u>	68	363 98 82	•
Rattan Furniture, etc. Slipper Manufacturers Clothing Manufacturers	20 286 96 80 23 2 2	22 36 10	31 304 96. 80 28 2 2	
RURAL TOWNS	<u>198</u> <u>119</u> <u>80</u>	<u>17 51 17</u>	<u>207</u> <u>145</u> <u>89</u>	
San Isidro San Leonardo Peñaranda	16 4 - 148 84 46 34 31 34	7 2 - 3 42 10 7 7 7		,
Rattan Furniture, etc.	69 54 44	14 9	7 76 59 48	•
San Isidro San Leonardo Reñaranda	16 4 - 19 19 10 34 31 34		19 5 - 19 19 10 7 38 35 38	
Slipper Manufacturers	40		40	
San Isidro San Leonardo Peñaranda	40		40	
Clothing Manufacturers	<u>89 65 36</u>	3 42 1	0 91 86 41	· · · · · · · · · · · · · · · · · · ·
San Isidro San Leonardo Peñaranda	89 65 36	3 42 1	0 91 36 41	

LIGHT TRANSPORT-RELATED INDUSTRIES

		Regulars	Part-Time 71 67 61	Full-Time Eq. 71 67 61	% Increase (Dec) 67-71 61-67 61-71
	GAPAN	<u>653 273 69</u>	<u>16 8 3</u>	<u>656 274 70</u>	
	Trans Shops (Light) Jeepneys Tricyles	53 32 19 110 71 50 490 170 -	16 8 3	56 33 20 110 71 50 490 170 -	
	RURAL TOWNS	<u>454</u> <u>122</u> <u>25</u>	_5	455 122 25	
4	San Isidro San Leonardo Peñaranda	196 40 10 200 56 5 58 26 10	5	196 40 10 201 56 5 58 26 10	
	Trans Shops (Light)	<u>22</u> <u>10</u> <u>4</u>	_5	23 10 4	
	San Isidro San Leonardo Peñaranda	11 6 4 11 4 -	5	11 6 4 12 4 -	
	Jeepneys San Isidro	54 42 21	, 45 45 45 45 45 45 45 45 45 45 45 45 45	<u>54 42 21</u>	
	San Isidro San Leonardo Peñaranda	18 11 6 13 11 5 23 20 10		18 11 6 13 11 5 23 20 10	
	Tricycles	<u>378 70 -</u>	as 49 49	<u>378 70 -</u>	. .
	San Isidro San Leonardo Peñaranda	167 23 - 176 41 - 35 6 -	 	167 23 - 176 41 - 35 6 -	

HOUSING COMPONENTS AND FURNISHINGS

			67			rt-T 67	<u>ime</u> 61	Fu11 71	67		% Incr 67-71	(Dec) 61-71
A.	GAPAN	68	<u>39</u>	27	23	14	8	<u>76</u>	44	30		
ŧ	Wood Furniture & Sash Metal Sash Mfr. House Furnishings	28 20 20	13 12 14	8 6 13	11 - 12	2 - 12	-	32 20 24	14 12 18	8 6 16	· .	
4	RURAL TOWNS	39	23	8	19	_11	10	46	26	<u>_11</u>		
. 1	San Isidro San Leonardo Peñaranda	18 18 5	4 14 5	4 4 -	17 - 2	10 - 1	10	23 18 5	7 14 5	7 4 -	.*	
	Wood Furniture & Sash	<u>19</u>	12		3	_1		19	12			
	San Isidro San Leonardo Peñaranda	4 10 5	7 5		1 - 2	1	-	4 10 5	7 5	-		
	Matal Sash Mfr.	-	, 44			-	-		-	-		
	San Isidro San Leonardo Peñaranda	-	-	-	-	-	-	-	-	-		į
	House Furnishings	22	11	8	16	10	10	27	14	<u>11</u>	ng ng	
	San Isidro San Leonardo	14 8	4 7	.4 .4	16	10	10	1 9	7	7		

CONSTRUCTION: MATERIALS MANUFACTURE/SUPPLY AND CONTRACTORS

		egula _67			t-Ti		Ful1 71	67	<u>61</u>	% Inc			<u>)</u>
GAPAN	<u>289</u>	<u>250</u>	108	<u>101</u>	95	24	321	<u>279</u>	<u>116</u>			,	
Construction Mat. Supl. Hollow Block Mfr.& Supl. Gravel/Sand Supply Construction Contractors	51 52	6 8	- 44	9 18 - 74	13 21 - 61	8 -	53 54 52 162	50 35 68 126					
RURAL TOWNS	81	44	<u>18</u>	31	<u>17</u>	_2	<u>87</u>	48	<u>19</u>				
San Isidro San Leonardo Peñaranda	37 40 4	20 22 2	4 13 1	20 11 -	15 2 -	1 1 -	41 42 4	23 23 2	5 13 1				
Construction Mat. Supl.							5		-				
San Isidro San Leonardo Pañaranda	5	-	-	***	-	 	5	-	-				
Hollow Block Mfr.& Supl.	2 8	_9		16	10		<u>30</u>	11	-		•		
San Isidro San Leonardo Peñaranda	13 15	9	**	10 6 -	10	-	14 16	11	•				
Gravel/Sand Supply	<u>18</u>	20	<u>13</u>			_=	<u>18</u>	20	13				4
San Is idr o San Leonardo Peñaranda	1 13 4	1 17 2	1 11 1	-	- -	- - - -	1 13 4	1 17 2	1 11 1	·			
Construction Contractors	<u>30</u>	<u>15</u>		15		_2	34	<u>17</u>	6				
San Isidro San Leonardo Peñaranda	18 12	10 5 -	3 2 -	10 5 -	5 2 -	1	21 13 -	11 6	4 2 -				

Table -m

MEDICAL SERVICES

	Re gul ars 71 67 61	Part-Time 71 67 61	Full-Time Eq. 71 67 61	% Increase (Dec) 67-71 61-67 61-71
CAPAN	70 31 17		70 31 17	
Private Practices/Clinical Hospitals (3) Personnel Dental/Optical Rural Health Units (3)	8 12 3 10 34 14 - 6 4 2 18 5 5	•	12 8 10 34 14 - 6 4 2 18 5 5	
RURAL TOWNS	<u>54 44 36</u>		54 44 36	
San Isidro San Leonardo Pañaranda	21 17 14 16 14 12 17 13 10		21 17 14 16 14 12 17 13 10	
Private Practices/Clinic	s 15 15 11		<u>15</u> <u>15</u> <u>11</u>	
San Isidro San Leonardo Penaranda	7 6 4 4 5 4 4 4 3		7 6 4 4 5 4 4 4 3	
Hospital Personnel	50 to 40			
Dental/Optical	11 10 6		11 10 6	!
San Isidro San Leonardo Peñaranda	3 4 3 3 2 1 5 4 2		3 4 3 3 2 1 5 4 2	
Rural Health Units	<u>28</u> <u>19</u> <u>19</u>	•	<u>28</u> <u>19</u> <u>19</u>	
San Isidro San Leonardo Peñaranda	11 7 7 9 7 7 8 5 5		11 7 7 9 7 7 8 5 5	

Table

Labor Absorption in AGRICULTURAL INPUTS, PROCESSING, AND TRADING INDUSTRIES

	Regulars 71 67 61	Part-Time 71 67 61	Full-Time Eq. 71 67 61	% Increase (Dec) 67-71 61-67 61-71
GAPAN	<u>434</u> <u>332</u> <u>189</u>	<u>451</u> <u>340</u> <u>178</u>	<u>562 429 239</u>	,
Ag. Supplies Dealers Rice Milling/Trading Palay Dealers/Truckers	28 16 12 399 309 169 7 7 8	16 6 2 200 155 85 235 179 91	33 18 13 449 348 190 80 63 36	
RURAL TOWNS	<u>284</u> <u>191</u> <u>113</u>	<u>292 198 119</u>	<u>366 245 141</u>	
San Isidro San Leonardo Peñaranda	37 38 33 163 77 34 84 76 46	38 40 33 182 88 42 72 70 44	47 49 38 215 101 45 104 95 58	
Ag. Supplies Dealers	_3	· · · ·	_3	
San Isidro San Leonardo Peñaranda	3		3	
Rice Milling/Trading	<u>268</u> <u>183</u> <u>111</u>	<u>134 92 56</u>	<u>303</u> <u>206</u> <u>125</u>	
San Isidro San Leonardo Peñaranda	36 37 32 156 74 34 76 72 45	18 19 16 78 37 17 38 36 23	41 42 36 176 83 38 86 81 51	1
Palay Dealers/Truckers	13 3 2	<u>158</u> <u>106</u> <u>63</u>	60 39 20	
San Isidro San Leonardo Peñaranda	1 1 1 4 3 - 8 4 1	20 21 17 104 51 25 34 34 21	6 7 6 36 18 7 18 14 7	

Labor Abscrption in

MANUFACTURE, MAINTENANCE, AND REPAIR OF HEAVY EQUIPMENT

		gula 67		<u>Part</u> 71			Full 71			% Inc.	rease 61-67	(Dec) 61-71
GAPAN	118	7 8	42	13	_9.	3	120	<u>79</u>	43			
Vehicle Body Bldg. Transport Shops(Heavy) Service Stations Thresher/Battery/Pump Manufacturers	10 37 50 21	10 27 31 10	6 21 15	2 9 - 2	2 6 -	3	11 38 50 21	11 27 31 10	7 21 15			
RURAL TOWNS	71	<u>52</u>	30	6		_2	72	<u>53</u>	31			
San Isidro San Leonardo Peñaranda	20 43 8	27 20 5	21 4 5	2 4 -	5 2 -	2	20 44 8	28 20 5	22 4 5			
Vehicle Body Bldg.	21	12	<u>13</u>	_4	_3	_2	22	13	14			
San Isidro San Leonardo Peñaranda	2 15 4	8 3 1	9 3 1	4	3	2 - -	2 16 4	9 3 1	10 3 1			·
Thresher/Battery/Pump	9		_1	-	_2	_=	9		_1			
San Isidro San Leonardo Peñaranda	9	7	1	-	2	-	9	- 7 -	1			∤ .
Transport Shops (Heavy)	16	<u>15</u>	14	2	2		<u>16</u>	15	14			• • •
San Isidro San Leonardo Peñaranda	12 2 2	10 3 2	12	2	2 -	- - -	12 2 2	10 3 2				
Service Stations	25	<u>18</u>	2				25	<u>18</u>				
San Isidro San Leonardo Peñaranda	6 17 2		2	-	-	- - -	6 17 2	7				
GAPAN AREA TOTAL	189	130	72	19	16	5	192	132	74			

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