



## SPECIAL RELEASE

### Highlights of the 2021 City and Municipality Level of Poverty Estimates in Misamis Occidental

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In 2021, among the 2 cities and 15 municipalities in Misamis Occidental, two had poverty incidences exceeding 40 percent. These areas were Concepcion and Don Victoriano Chiongbian with 49.9 percent and 43.3 percent poverty incidence, respectively. Concepcion had the highest poverty incidence at 49.9 percent, while Oroquieta City had the lowest at 20.5 percent. (see Table 1)

Table 1. Poverty Incidence Estimates of Misamis Occidental by City/Municipality: 2018 and 2021

City / Municipality	Poverty Incidence	
	2018	2021
Aloran	23.5	28.1
Baliangao	26.8	32.3
Bonifacio	35.0	33.3
Calamba	24.0	24.1
Clarin	22.5	24.2
Concepcion	49.9	49.9
Jimenez	20.4	21.5
Lopez Jaena	28.2	36.5
City of Oroquieta	15.6	20.5
City of Ozamiz	21.1	21.0
Panaon	18.1	22.6
Plaridel	23.8	27.1
Sapang Dalaga	35.4	37.2
Sinacaban	24.2	23.8
City of Tangub	27.5	27.3
Tudela	24.4	23.5
Don Victoriano Chiongbian	35.7	43.3



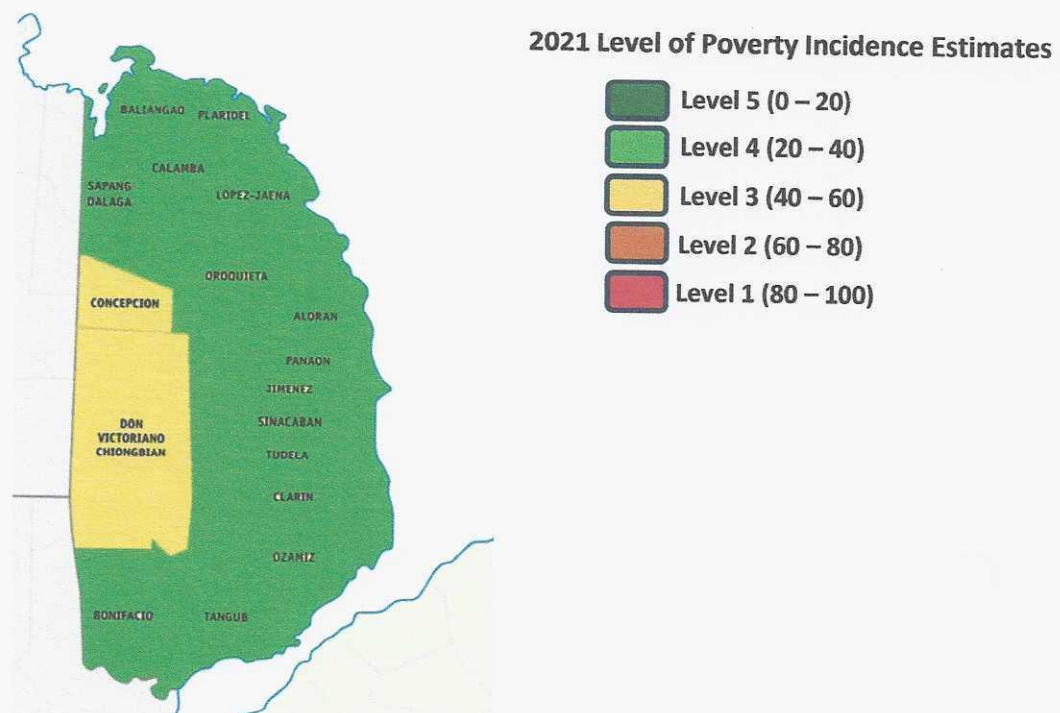
Comparing the poverty incidence estimates from 2018 to 2021, municipalities of Lopez Jaena and Don Victoriano Chiongbian experienced the highest increases, at 8.3 and 7.5 percentage points, respectively. In contrast, municipalities of Bonifacio and Tudela saw a decrease in poverty incidence, dropping by 1.7 and 0.9 percentage points, respectively.

Majority (15) of the cities and municipalities of Misamis Occidental were categorized as Level 4, indicating that their poverty incidence ranges from over 20 percent to 40 percent. (see Table 2)

Table 2. Distribution of Cities and Municipalities Based on the Level of Poverty Incidence Estimates:2021

Poverty Classification	Poverty Incidence Among Population (%)	Count	%
Level 5	At most 20.0	0	0
Level 4	>20.0 to 40.0	15	88.2
Level 3	>40.0 to 60.0	2	11.8
Level 2	>60.0 to 80.0	0	0
Level 1	Greater than 80.0	0	0

Figure 1: Map of Misamis Occidental Based on the Level of Poverty Incidence Estimates:2021



The generated poverty estimates in 2021 provided more areas having reliable estimates as indicated by lower coefficients of variation compared to the poverty estimates in 2018. There were only two municipalities with poverty estimates whose coefficients of variation (CV) were higher than 10 percent in 2021. (see Table 3)

Table 3. Coefficient of Variation of Misamis Occidental  
 by City/Municipality: 2018 and 2021

City / Municipality	Coefficient of Variation	
	2018	2021
Aloran	6.5	5.8
Baliangao	11.3	8.5
Bonifacio	6.4	7.0
Calamba	8.5	14.5
Clarin	8.7	7.8
Concepcion	7.0	6.5
Jimenez	9.9	6.1
Lopez Jaena	9.3	8.2
City of Oroquieta	8.8	5.1
City of Ozamiz	7.6	6.1
Panaon	13.9	9.3
Plaridel	8.3	7.6
Sapang Dalaga	7.0	6.4
Sinacaban	9.7	8.6
City of Tangub	6.5	6.0
Tudela	7.8	10.6
Don Victoriano Chiongbian	11.3	8.8

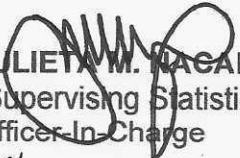
Table 4. Distribution of Cities and Municipalities  
Based on the Coefficient of Variation of the Estimates: 2021

Type of Estimates	Coefficient of Variation (%)	Count	%
Reliable	At most 10.0	15	88.2
With acceptable measure of reliability	>10.0 but <=20.0	2	11.8
Caution must be observed in using these estimates	>20.0	0	0

The generation of these 2021 city and municipal level poverty estimates was made possible using an improved version of the Small Area Estimation (SAE) technique developed by the World Bank called Elbers, Lanjouw, and Lanjouw, which has been in use since 2002. This improved methodology is now referred to as the Census Empirical Best/Bayes estimation<sup>1</sup>.

**Source:** Philippine Statistics Authority, through a national government-funded project on the generation of the small area estimates of poverty

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<sup>1</sup> The Census EB or Census Empirical Best/Bayes Estimation was introduced by Paul Andres Corral Rodas, Isabel Molina & Minh Cong Nguyen (2021) "Pull your small area estimates up by the bootstraps", *Journal of Statistical Computation and Simulation*