SPECIAL RELEASE

BOTH PALAY AND CORN VOLUME OF PRODUCTION IMPROVED IN THE FIRST HALF OF 2021

JANUARY to JUNE 2021 volume of palay production exhibited an increase of 8.05 percent or equivalent to 56,478 Metric Tons (MT) from 701 thousand MT in 2020 output to 758 thousand MT this year. Irrigated palay accounted the highest increased in production by 7.13 percent or an additional output of 48 thousand MT from first semester 2020 level.

The positive growth in production was attributed by the increase in area to 1.52 percent from 143 thousand hectares (HA) in 2020 to 146 thousand hectares in 2021 and likewise improved productivity yield by 6.43 percent. See Figure 1.

Figure 1. Palay Estimates, Isabela
January to June 2020-2021

|	Jan-Jun 20	Jan-Jun 21
Production (MT)	701,762	758,240
Area (HA)	143,831	146,023
Yield (MT)	4.88	5.19
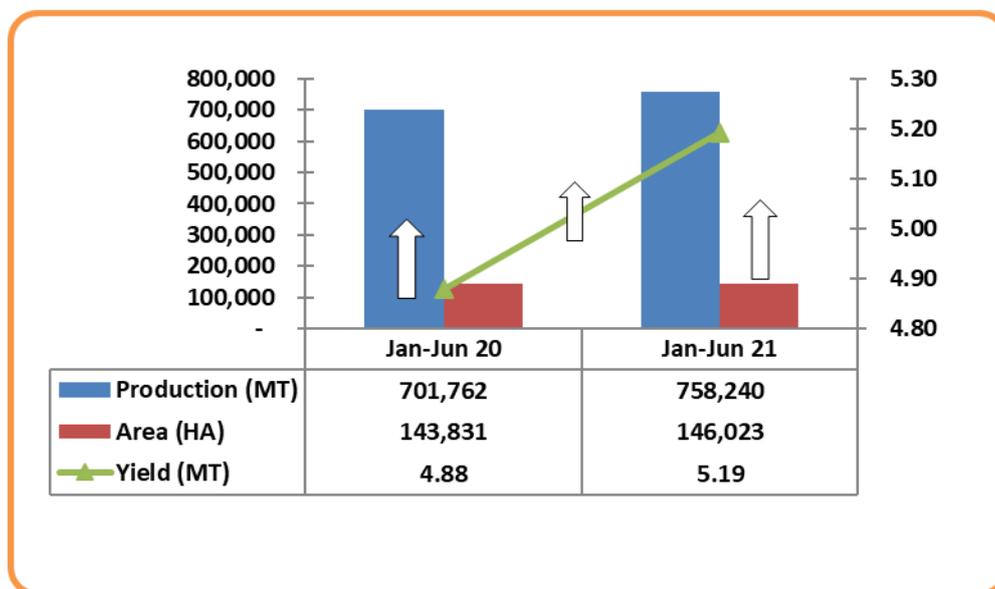
Source: PSA, *Palay Production Survey*

Among the three types of ecosystems, irrigated palay surfaced as the top produced as it accounted for 95.77 percent of the total production. Rainfed production on the

other hand contributed only 4.17 percent, while upland production complemented only 0.06 percent. See Figure 2

Figure 2. Percentage Distribution by Type of Ecosystem, Isabela: January to June, 2021

Upland
0.06%

Rainfed
4.17%

Irrigated
95.77%
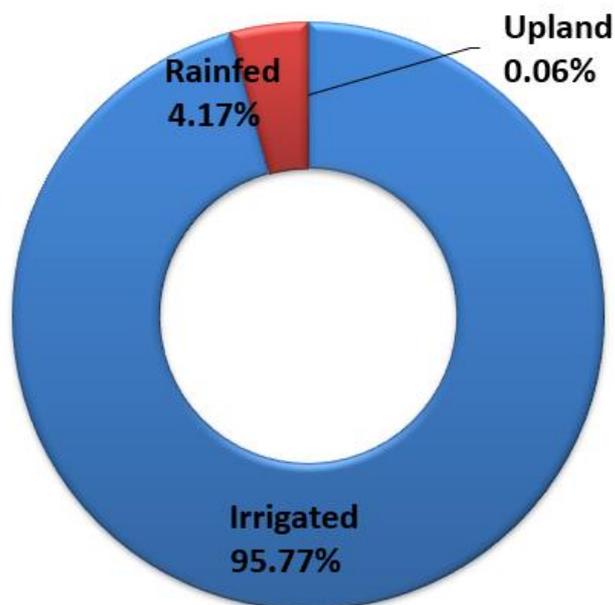
In terms of distribution of volume of palay production across provinces in the first semester 2021, Isabela accounted the highest share of 47.77 percent to the region's output, followed by Cagayan with a share of 37.67 percent while Nueva Vizcaya contributed 10.36 percent. The provinces of Quirino and Batanes complemented the remaining shares. See Figure 2

Figure 3. Percentage Distribution by Province, Cagayan Valley: January to June, 2021

Quirino
4.19%

Batanes
0.00%

Nueva
Vizcaya
10.36%

Isabela
47.77%

Cagayan
37.67%
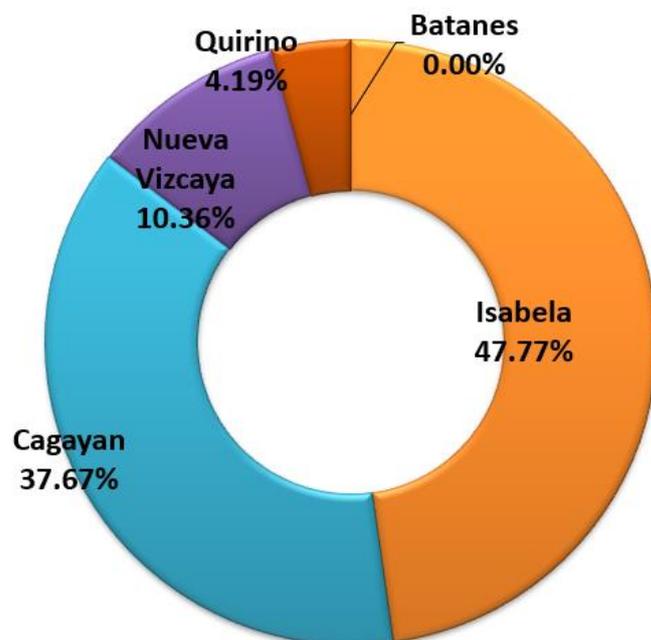
Table 1. Palay Production Estimates, Isabela: January to June 2020-2021

ITEM	JANUARY TO JUNE		GROWTH RATE (%)
	2020	**2021**	
PRODUCTION (MT)	**701,762**	**758,240**	**8.05**
Irrigated	677,897	726,199	7.13
Rainfed	23,709	31,592	33.25
Upland	156	450	188.46
AREA HARVESTED (HA)	**143,831**	**146,023**	**1.52**
Irrigated	135,773	135,780	0.01
Rainfed	7,932	9,945	25.38
Upland	126	298	136.51
YIELD/ HECTARE	**4.88**	**5.19**	**6.43**
Irrigated	4.99	5.35	7.12
Rainfed	2.99	3.18	6.28
Upland	1.24	1.51	21.67

Source: PSA, *Palay Production Survey*

As pointed out, both area harvested and yield per hectare contributed the increase of the total volume of palay production. As shown in Table 1, all ecosystem registered a positive growth rate in both area and yield.

Total volume of corn production in the province registered a positive growth rate in the first semester of 2021 compared in the same semester last year. The production recorded at 558 thousand MT or 2.76 percent from 543 thousand MT in first semester 2020. Like what happened in palay, the increased in the volume of corn production was contributed by the additional area harvested and improved in productivity yield.

Figure 4. Corn Estimates, Isabela
January to June 2020-2021

	Jan-Jun 20	Jan-Jun 21
Production (MT)	543,959	558,993
Area (HA)	120,295	121,813
Yield (MT)	4.52	4.59

**Source**: PSA, *Corn Production Survey*

Slicing the volume of production per crop type, yellow corn dominantly shares 98.72 percent complemented by white which shares only 1.28 percent. See Figure 6.

**Figure 5. Percentage Distribution by Crop Type,
Isabela: January to June, 2021**
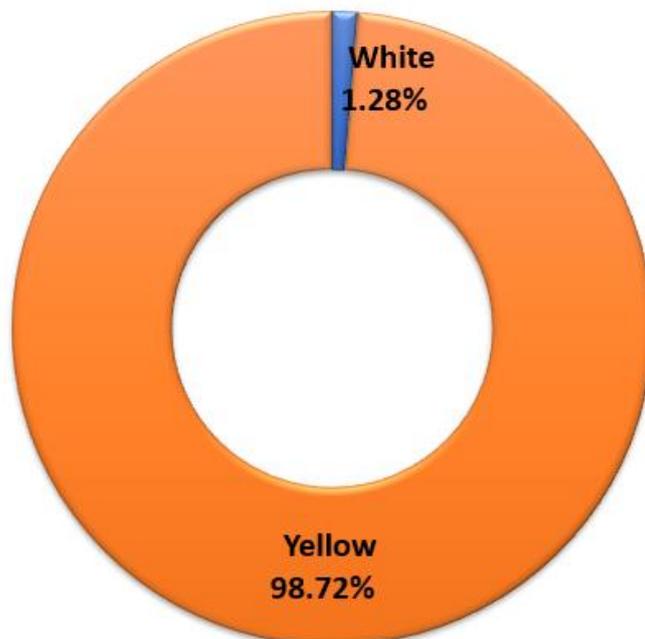
Isabela remained as the top contributor of corn production among five provinces in Cagayan Valley. This was supported by its share of 55.76 percent to the regional output followed by the province of Cagayan which contributed 31.81 percent. About 8.58 percent was shared by the province of Quirino while 3.83 percent was produced in the province of Nueva Vizcaya. The remaining was produced in the province of Batanes. See Figure 6

**Figure 6. Percentage Distribution by Province,
Cagayan Valley: January to June, 2021**
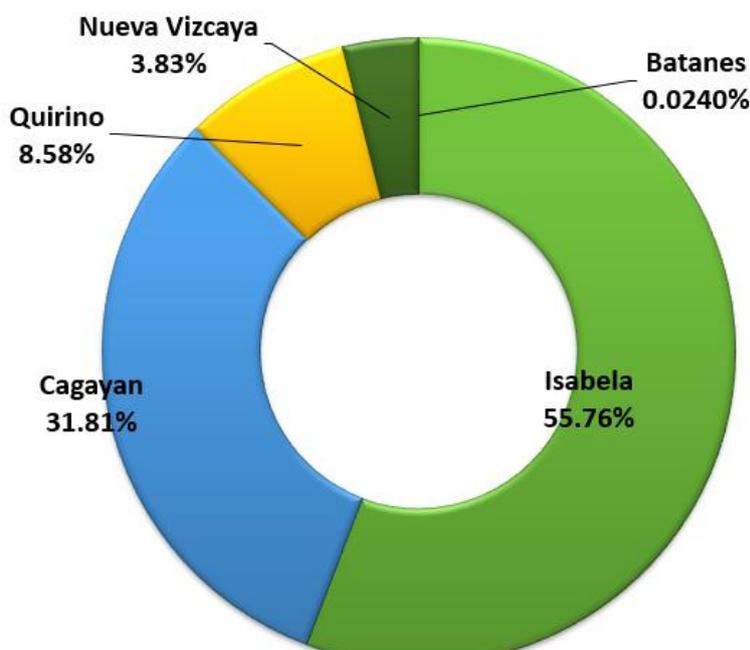
Table 2. Corn Production Estimates, Isabela: January to June 2020-2021

ITEM	JANUARY TO JUNE		GROWTH RATE (%)
	2020	2021	
PRODUCTION (MT)	**543,959**	**558,993**	**2.76**
White	7,421	7,163	(3.48)
Yellow	536,538	551,830	2.85
AREA HARVESTED (HA)	**120,295**	**121,813**	**1.26**
White	2,260	2,098	(7.17)
Yellow	118,035	119,715	1.42
YIELD/ HECTARE	**4.52**	**4.59**	**1.48**
White	3.28	3.41	3.98
Yellow	4.55	4.61	1.41

Source: PSA, *Corn Production Survey*

TECHNICAL NOTES

Production refers to the quantity produced and actually harvested for a particular crop during the reference period. For palay and corn, harvest area refers to the actual area harvested/to be harvested during the reference quarter.

Yield is an indicator of production derived by dividing the total production by the area harvested.

Estimates and forecasts of production and harvest area of palay and corn are generated from the Quarterly Palay and Corn Production Survey (PCPS) of which there are four survey rounds in a year, that is, January, April, July and October. The following are the data taken from these surveys:

1) Production estimates of the previous quarter for each survey round;

2) Forecast one quarter ahead based on the standing crop; and

3) Forecast two quarters ahead based on planting intentions.

The collections of data of these surveys are undertaken by hired Statistical Researchers (SRs). The SRs are trained prior to field operation to ensure that the procedures and concepts are understood. The training includes mock interviews and dry-run exercises.

The data gathered in this survey are as follows: production, area planted/harvested and yield by ecosystem and seed type; usage of seeds, fertilizer and pesticides; source of irrigation water and adequacy, monthly distribution of production and area harvested; farm household disposition of production; area with standing crop, farmer's planting intention for the quarter; awareness and availment of palay and corn program interventions. The reference period for each survey round is shown below:

Survey Round	Reference Period
April Round	January to March
July Round	April to June
October round	July to September
January Round	October to December

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Palay Household – the sample household operates an agricultural land, whole or part of which is palay area within the nine-month period, or the land is temporarily in-fallow but the respondent declares that it is devoted to palay production. Specifically, any of the following conditions must be satisfied:

a. Household harvested palay during the reference quarter; b. Household has standing palay crop in the farm; c. Household intends to plant within the succeeding quarter; and d. The land is temporarily in-fallow but the respondent declares that it is devoted to palay production.

Corn Household – the sample household operates an agricultural land, whole or part of which is corn area within the nine-month period, or the land is temporarily in-fallow but the respondent declares that it is devoted to palay production. Specifically, any of the following conditions must be satisfied:

a. Household harvested corn during the reference quarter; b. Household has standing corn crop in the farm; c. Household intends to plant within the succeeding quarter; and d. The land is temporarily in-fallow but the respondent declares that it is devoted to corn production.

Production - refers to the quantity produced and actually harvested for a particular crop during the reference period. For palay and corn, harvest area refers to the actual area harvested/to be harvested during the reference quarter. Estimates and forecasts of production and harvest area of palay and corn are generated from the Quarterly Palay and Corn Production Survey (PCPS) of which there are four survey rounds in a year that is January, April, July and October. The following are the data taken from these surveys:

a. Production estimates of the previous quarter for each survey round;

b. Forecast one quarter ahead based on the standing crop; and

c. Forecast two quarters ahead based on planning intentions.

Approved for Release

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