

20 Feb. – 8 May 2020

Demo Plot # 2

Crops : Cauli Flower

Location of Demo Plot : Kp. Cibedug, Cikole,
Lembang, West Java – Indonesia

by Google Maps

<https://maps.google.com/?q=-6.799508,107.644821>

Farmer :

Dadan

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Trainer :

Djamaluddin

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C a u l i F l o w e r

Land Preparation

20 Feb. – 2 Mar. 2020

Basic fertilizer :
Super Chicken Manure
Vermicompost
Mutiara (N P K)
Urea/ZA (N)
Pospat (TSP)
Soil Conditioner

Cauli Flower

Planting

3 Mar. 2020

Seeds : F1 / Hibrid
Plant. Dist. : 60 X 60 CM
Integrated : 1008 Plants
Konventional : 1382 Plants



Integrated

Basic fertilizer :

4500 kg	Super Chicken Manure	4500 kg
183.8 kg	Vermicompost	0 kg
18.8 kg	Mutiara (NPK)	25 kg
30.1 kg	Urea + ZA	40 kg
18.8 kg	Pospat (TSP)	25 kg
0.15 kg	Soil Conditioner	0 kg



Konventional

Cauli Flower
Maintenance
5 Apr. 2020 (33 DAP)

Integrated

Konvensional



Maintenance fertilizer :

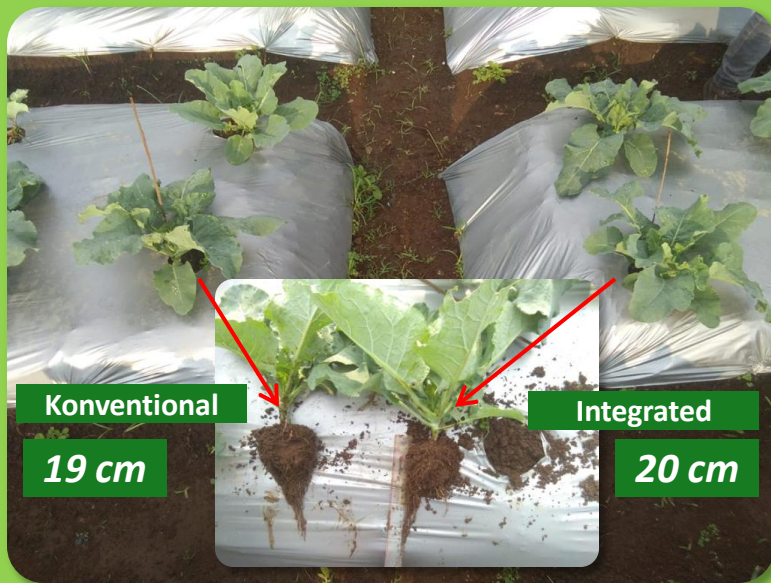
25 kg	Mutiara (NPK)	25 kg
0 kg	Grower (NPK)	50 kg
0 kg	Nitrogen (ZA)	25 kg
10 kg	Pottasium (KNO – white)	20 kg
6.0 kg	Pottasium (KCL)	7.5 kg
25 kg	Pospat (TSP)	25 kg
0 kg	Boron	25 kg
1.50 kg	Organic Fertilizer	0 kg
	Pesticide	



Integrated

Konvensional





5 Apr. 2020 (33 DAP)
Monitoring Data
Cauliflower

Integrated (sampling 1 – 10)



Konvensional (sampling 1 – 10)



33 DAP	Plant High	
	I (cm)	K (cm)
1.	20	18
2.	18	16
3.	17	21
4.	21	19
5.	19	21
6.	19	19
7.	20	14
8.	20	14
9.	16	18
10.	22	17
	19.2	17.7





C a u l i F l o w e r

M a i n t e n a n c e

20 Apr. 2020 (48 DAP)

Integrated (sampling 1 – 10)



Konventional (sampling 1 – 10)



Cauli Flower
Monitoring Data
20 Apr. 2020 (48 DAP)

48 DAP	Integrated		Konventional	
	PH(cm)	F (cm)	PH(cm)	F (cm)
1.	27	12	21	0
2.	40	6	30	8
3.	35	0	30	8
4.	39	0	30	10
5.	35	10	36	6
6.	33	10	34	7
7.	33	0	31	6
8.	30	7	30	0
9.	35	5	30	8
10.	35	9	32	8
	34.2	5.9	30.4	6.1

C a u l i F l o w e r

H a r v e s t

24 Apr - 8 May 2020 (52 – 67 DAP)

	<i>Int.(kg)</i>	<i>Konv.(kg)</i>	<i>Tot.(kg)</i>	<i>Price(Rp.)</i>	<i>Income(Rp.)</i>
<i>24 Apr. 20</i>	<i>409</i>	<i>427</i>	<i>836</i>	<i>3,200.-</i>	<i>2,675,200.-</i>
<i>27 Apr. 20</i>	<i>415</i>	<i>428</i>	<i>843</i>	<i>3,200.-</i>	<i>2,697,600.-</i>
<i>30 Apr. 20</i>	<i>301</i>	<i>546</i>	<i>847</i>	<i>3,500.-</i>	<i>2,964,500.-</i>
<i>4 May 20</i>	<i>75</i>	<i>204</i>	<i>279</i>	<i>3,500.-</i>	<i>976,500.-</i>
<i>8 May 20</i>	<i>56</i>	<i>120</i>	<i>176</i>	<i>4,200.-</i>	<i>739,200.-</i>
	<i>1256</i>	<i>1725</i>	<i>2981</i>		<i>10,053,000.-</i>



Cauli Flower

Summary of Results Data

	Integrated			Konvensional		
	P. High(cm)		F (cm)	P. High(cm)		F (cm)
	33 DAP	48 DAP	48 DAP	33 DAP	48 DAP	48 DAP
1.	20	27	12	18	21	0
2.	18	40	6	16	30	8
3.	17	35	0	21	30	8
4.	21	39	0	19	30	10
5.	19	35	10	21	36	6
6.	19	33	10	19	34	7
7.	20	33	0	14	31	6
8.	20	30	7	14	30	0
9.	16	35	5	18	30	8
10.	22	35	9	17	32	8
	19.2	34.2	5.9	17.7	30.4	6.1

Harvest Data	Integrated	Konvensional
Population (plants)	1008	1382
Yield (kg)	1256	1725
Yield per ha (ton)	40.64	40.49
Income 880 kg X Rp. 32 – 42,000 = Rp. 10,053,000.-		
Land Preparation Costs (Rp.)	3,230,325	3,002,000
Maintenance Costs (Rp.)	2,810,300	3,775,500
Total Cost (Rp.)	6,040,625	6,777,500
Yield per plant (kg)	1.246	1.248
Cost per Plant (Rp.)	5,992.6	4,904.1
Cost (Rp./ha/year)		
Profit (Rp./ha/year)		

Cauli Flower

Land Preparation - Planting Costs (without leasing land & labor)

2											
cauli flower											
735 M2											
2390											
Needs	konvensional 426 M2				integrated 309 M2				TOTAL		
	Q	hrg	Rp.	Q	hrg	Rp.	Q	Rp.			
seed / Nursery	1.0	schtk	105,000.00	105,000.00	1.0	schtk	105,000.00	105,000.00	2.0	schtk	210,000.00
Mulsa	0.75	roll	650,000.00	487,500.00	0.75	roll	650,000.00	487,500.00	1.5	roll	975,000.00
Vermicompost	-	kg	-	-	183.8	kg	1,000.00	183,750.00	183.8	kg	183,750.00
chicken manure super	4,500.0	kg	416.67	1,875,000.00	4,500.0	kg	416.67	1,875,000.00	9,000.0	kg	3,750,000.00
humic acid	-	kg	-	-	0.15	kg	600,000.00	88,200.00	0.15	kg	88,200.00
urea	15.0	kg	2,300.00	34,500.00	11.3	kg	2,300.00	25,875.00	26.3	kg	60,375.00
ZA	25.0	kg	5,000.00	125,000.00	18.8	kg	5,000.00	93,750.00	43.8	kg	218,750.00
TSP	25.0	kg	5,000.00	125,000.00	18.8	kg	5,000.00	93,750.00	43.8	kg	218,750.00
NPK Mutiara	25.0	kg	10,000.00	250,000.00	18.8	kg	10,000.00	187,500.00	43.8	kg	437,500.00
Seeds Treatment											
humic acid	-	-	-	-	0.10	kg	600,000.00	60,000.00	0.10	kg	60,000.00
Herbagreen Protect F	-	-	-	-	0.05	kg	600,000.00	30,000.00	0.05	kg	30,000.00
			3,002,000.00				3,230,325.00				6,232,325.00

Maintenance Costs (without Labor)

2											
cauli flower											
735 M2											
2390 plants											
Needs	konvensional 426 M2				integrated 309 M2				TOTAL		
	Q	hrg	Rp.	Q	hrg	Rp.	Q	Rp.			
ZA	25.0	kg	2,300.00	57,500.00	0.0	kg	2,300.00	-	25.0	kg	57,500.00
TSP	25.0	kg	5,000.00	125,000.00	25.0	kg	5,000.00	125,000.00	50.0	kg	250,000.00
NPK Mutiara	25.0	kg	10,000.00	250,000.00	25.0	kg	10,000.00	250,000.00	50.0	kg	500,000.00
NPK Grower	50.0	kg	11,500.00	575,000.00	-	kg	-	-	50.0	kg	575,000.00
KNO Putih	20.0	kg	23,300.00	466,000.00	10.0	kg	23,300.00	233,000.00	30.0	kg	699,000.00
BORON	25.0	kg	9,000.00	225,000.00	-	kg	-	-	25.0	kg	225,000.00
Humic Acid	-	kg	-	-	1.00	kg	600,000.00	600,000.00	1.00	kg	600,000.00
Spray											
Herbagreen Z20	-	kg	-	-	0.221	kg	600,000.00	132,300.00	0.221	kg	132,300.00
Herbagreen Protect F	-	kg	-	-	0.276	kg	600,000.00	165,375.00	0.276	kg	165,375.00
Herbagreen Fluisan	-	kg	-	-	0.0074	Ltr	4,000,000.00	29,400.00	0.0074	Ltr	29,400.00
Pesticide :											
1. Trivia 73 WP, 200 gr	1.0	Schts	200,000.00	200,000.00	1.0	Schts	200,000.00	200,000.00	2.0	Schts	400,000.00
2. Stander (100 gr)	3.0	Schts	100,000.00	300,000.00	2.0	Schts	100,000.00	200,000.00	5.0	Schts	500,000.00
3. Amistartop 325 SC, 250 ML	0.5	Btl	250,000.00	125,000.00	-	Btl	-	-	0.5	Btl	125,000.00
4. Alika 247 ZC, 250 ML	2.0	Btl	145,000.00	290,000.00	2.0	Btl	145,000.00	290,000.00	4.0	Btl	580,000.00
5. Turex WP, 100 gr	6.0	Schts	35,000.00	210,000.00	4.0	Schts	35,000.00	140,000.00	10.0	Schts	350,000.00
6. Prevaton 50 SC, 250 ML	2.0	Btl	155,000.00	310,000.00	-	Btl	-	-	2.0	Btl	310,000.00
7. Siklon (25 Gr)	6.0	Schts	47,000.00	282,000.00	4.0	Schts	47,000.00	188,000.00	10.0	Schts	470,000.00
8. Abacel 18 EC, 1 ltr	0.5	Ltr	220,000.00	110,000.00	0.5	Ltr	220,000.00	110,000.00	1.0	Ltr	220,000.00
9. Herbagreen Protect V	-	Ltr	-	-	0.165	Ltr	600,000.00	99,225.00	0.165	Ltr	99,225.00
10. BOOSTER, 250 ML	1.0	Btl	75,000.00	75,000.00	1.0	Btl	75,000.00	75,000.00	2.0	Btl	150,000.00
			3,525,500.00				2,762,300.00				6,287,800.00
Add Pesticide Purchase by Farmer											
1. Amistartop 325 EC, 250 ML	1	Btl	250,000.00	250,000.00							
2. KCL (replacement for ZA)	7.5	kg	8,000.00	2,500.00	6	kg	8,000.00	48,000.00			
			3,775,500.00				2,810,300.00				6,585,800.00

Cauli Flower

Application of Planting - Harvesting (INTEGRATED)

Time		Fertilization - Spraying			Immersed/Flush The Fertilization	Spraying of Pesticide - Fertilizer
Date	DAP	Immersed	Flush	Spray		
3 Mar. 2020	0			Humic Acid 85 %		humic acid : 0.100 kg
5 Mar. 2020	2			HG Protect F (1) Mix Protect V (1) 1		HG Protect F : 0.050 kg Mix HG Protect V : 0.055 Ltr
8 Mar. 2020	5		NPK Mutiara, KCL Humic Acid 85 % 1		NPK Mutiara : 3 kg ; KCL : 2 kg Humic Acid : 0.200 kg 25 Kg	
		TSP				
13 Mar. 2020	10			HG Z20 (1) Mix 1 Incek+1 Fungi 2		HG Z20 : 0.050 kg Mix 1 incek + 1 Fungi, Dss Norml
15 Mar. 2020	12		NPK Mutiara, KCL Humic Acid 85 % 2		NPK Mutiara : 3 kg ; KCL : 2 kg Humic Acid : 0.200 kg	
22 Mar. 2020	19		NPK Mutiara, KCL Humic Acid 85 % 3		NPK Mutiara : 4 kg ; KCL : 2 kg Humic Acid : 0.200 kg	
23 Mar. 2020	20			HG Protect F (2) HG Protect V (2) HG Fluisan 3		HG Protect F : 0.050 kg HG Fluisan : 0.0035 ltr HG Protect V : 0.055 ltr Mix Pesticide
29 Mar. 2020	26		NPK Mutiara, Humic Acid 85 % 4		NPK Mutiara : 5 kg ; Humic Acid : 0.200 kg	
2 Apr. 2020	30			HG Z20 (2) Mix 1 Incek+1 Fungi 4		HG Z20 : 0.050 kg Mix Pesticide
5 Apr. 2020	33		NPK Mutiara, Humic Acid 85 % 5		NPK Mutiara : 5 kg ; KNO - White : 2 Humic Acid : 0.200 kg	
12 Apr. 2020	40		NPK Mutiara, Humic Acid 85 % 6		NPK Mutiara : 5 kg ; KNO - White : 3 kg Humic Acid : 0.200 kg	
	40			HG Protect F (3) Mix 1 Incek+1 Fungi 5		HG Protect F : 0.050 kg Mix Pesticide
19 Apr. 2020	47		KNO - White Humic Acid 85 % 7		KNO - White : 5 kg Humic Acid : 0.200 kg	
22 Apr. 2020	50			HG Z20 (3) HG Protect V (3) 6		HG Protect F : 0.050 kg HG Fluisan : 0.0035 ltr Mix Pesticide

Cauli Flower

Application of Planting - Harvesting (KONVENTIONAL)

Time		Fertilization - Spraying			Immersed/Flush The Fertilization	Spraying of Pesticide - Fertilizer
Date	DAP	Immersed	Flush	Spray		
5 Mar. 2020	2			Pesticide 1		
8 Mar. 2020	5		NPK Mutiara, KCL, Boron 1		NPK Mutiara : 5 kg ; KCL : 2.5 kg Boron : 5 kg	
		TSP			21 Kg	
13 Mar. 2020	10			Pesticide 2		
15 Mar. 2020	12		NPK Mutiara, KCL, Boron 2		NPK Mutiara : 10 kg ; KCL : 2.5 kg Boron : 5 kg	
22 Mar. 2020	19		NPK Mutiara, KCL, Boron 3		NPK Mutiara : 10 kg ; KCL : 2.5 kg Boron : 5 kg	
23 Mar. 2020	20			Pesticide 3		
29 Mar. 2020	26		NPK Grower ; KCL, Boron 4		NPK Grower : 20 kg ; KCL : 2 kg ; Boron 5 kg	
2 Apr. 2020	30			Pesticide 4		
5 Apr. 2020	33		NPK Grower ; KNO - White TSP 5		NPK Grower : 15 kg ; KNO - White : 4 kg ; TSP : 2 kg	
12 Apr. 2020	40		NPK Grower ; KNO - White TSP 6		NPK Grower : 15 kg ; KNO - White : 8 kg ; TSP : 2 kg	
	40			Pesticide 5		
19 Apr. 2020	47		KNO - White 7		KNO - White : 8 kg Humic Acid : 0.200 kg	
22 Apr. 2020	50			Pesticide 6		