

DAS	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
-20	Field	Field preparation	Irrigation				NEED-BASED	Labor	Man-d	0.50
-10	Field	Field preparation	Deep-chiseling					Tractor with chisel	Tractor-op.	2.00
-10	Field	Field preparation	Ploughing					Tractor with plough	Tractor-op.	2.00
-10	Field	Field preparation	Rotovating					Tractor with rotovator	Tractor-op.	2.00
-10	Field	Field preparation	Fertilization	Basal fertilizer	00-162-00 N-P-K			Single-Superphosphate	kg	900.00
-10	Field	Field preparation	Fertilization	Basal fertilizer				Zn-Sulphate	kg	20.00
-10	Field	Field preparation	Fertilization					Labor	Man-d	2.00
-1	Field	Field preparation	Rotovating					Tractor with rotovator	Tractor-op.	2.00
-1	Field	Bed preparation	Planking	Bed-making	90-cm bed & 45-cm wheel track			Tractor with 90-cm planker	Tractor-op.	1.00
-1	Field	Cultivation	Irrigation	Sprinkler installation				Labor	Man-d	2.00
-1	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
0	Field	Sowing						Seed	kg	2.00
0	Field	Sowing	90-cm bed, 45-cm wheel track	3 paired rows/bed	30-cm between paired rows, 15 cm from edge of bed	6.4-cm interplant distance, 5-mm depth within 24 h of sowing	283,500 plants/A	Sowing machine	Tractor-op.	1.00
0	Field	Cultivation	Herbicide application		Concentration: 0.50%			Stomp (Pendimethalin)	ltr	1.00
0	Field	Cultivation	Herbicide application					Water	ltr	200.00
0	Field	Cultivation	Herbicide application					Labor	Man-d	1.00
0-14	Field	Cultivation	Irrigation	Sprinkler	DAILY REQUIREMENT: ca. 3 mm (14000 ltr)			Water	m3	200.00
0-14	Field	Cultivation	Irrigation	Sprinkler	re-wet soil surface			Labor	Man-d	7.00
14	Field	Cultivation	Fertilization	Side dressing	07-00-00 N-P-K			Urea	kg	15.00
14	Field	Cultivation	Fertilization	Side dressing	00-00-10 N-P-K			SOP (K2SO4)	kg	20.00
14	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
14	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 14 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.40
14	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
14	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
14	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
21	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
21	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
28	Field	Cultivation	Fertilization	Side dressing	07-00-00 N-P-K			Urea	kg	15.00
28	Field	Cultivation	Fertilization	Side dressing	00-00-10 N-P-K			SOP (K2SO4)	kg	20.00
28	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
28	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
28	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
28	Field	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrlon-Combi-2	kg	0.20
28	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.50%, H.I.: 5 days		NEED-BASED	Kocide 77% (Copper hydroxide)	kg	1.00
28	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
28	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
28	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
35	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
35	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
42	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
42	Field	Cultivation	Fertilization	Side dressing	00-00-18 N-P-K			SOP (K2SO4)	kg	35.00
42	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
42	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
42	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
42	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.50%, H.I.: 0 days		NEED-BASED	Kavach 75% WP (Chlorothalonil)	kg	1.00
42	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
42	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
42	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
49	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
49	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
56	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
56	Field	Cultivation	Fertilization	Side dressing	00-00-18 N-P-K			SOP (K2SO4)	kg	35.00
56	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
56	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
56	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
56	Field	Cultivation	Weeding				NEED-BASED	Labor	Man-d	11.00
56	Field	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrlon-Combi-2	kg	0.20
56	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 14 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.40
56	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
56	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
56	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
63	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
63	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
70	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
70	Field	Cultivation	Fertilization	Side dressing	00-00-18 N-P-K			SOP (K2SO4)	kg	35.00
70	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
70	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
70	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
70	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.50%, H.I.: 5 days		NEED-BASED	Kocide 77% (Copper hydroxide)	kg	1.00
70	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
70	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
70	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00

DAS	Location	Operation1	Operation2	Operation3	Description1	Description2	Description3	Input	Unit	Units/acre
77	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
77	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
84	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
84	Field	Cultivation	Fertilization	Side dressing	00-00-18 N-P-K			SOP (K2SO4)	kg	35.00
84	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
84	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
84	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
84	Field	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrilon-Combi-2	kg	0.20
84	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.50%, H.I.: 0 days		NEED-BASED	Kavach 75% WP (Chlorothalonil)	kg	1.00
84	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
84	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
84	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
91	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
91	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
98	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
98	Field	Cultivation	Fertilization	Side dressing	00-00-18 N-P-K			SOP (K2SO4)	kg	35.00
98	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
98	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
98	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
98	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.20%, H.I.: 14 days		NEED-BASED	Abic M-45 75% EC (Mancozeb)	kg	0.40
98	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
98	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
98	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
105	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
105	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
112	Field	Cultivation	Fertilization	Side dressing	18-00-00 N-P-K			Urea	kg	40.00
112	Field	Cultivation	Fertilization	Side dressing	00-00-18 N-P-K			SOP (K2SO4)	kg	35.00
112	Field	Cultivation	Fertilization	Side dressing				Labor	Man-d	0.50
112	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
112	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
112	Field	Cultivation	Fertilization	Foliar application	Concentration: 0.10%			Fetrilon-Combi-2	kg	0.20
112	Field	Cultivation	Plant protection	Fungicide	Concentration: 0.50%, H.I.: 5 days		NEED-BASED	Kocide 77% (Copper hydroxide)	kg	1.00
112	Field	Cultivation	Plant protection	Insecticide	Concentration: 0.20%, H.I.: 3 days		NEED-BASED	Basathrin 25% EC (Cypermethrin)	ltr	0.40
112	Field	Cultivation	Plant protection				NEED-BASED	Water	ltr	200.00
112	Field	Cultivation	Plant protection				NEED-BASED	Labor	Man-d	1.00
119	Field	Cultivation	Irrigation	Sprinkler	REQUIREMENT: ca. 20 mm (80000 ltr)			Water	m3	80.00
119	Field	Cultivation	Irrigation	Sprinkler				Labor	Man-d	0.50
130	Field	Harvest						Tractor with ASA lift	Tractor-op.	1.00