

FIELD OPERATIONS

Records ✓

Date (dd/mm/yy)	Operation & method*	Product type (Chemical/fertilizer) & application rate
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Chemical weed, insect & disease control activities (indicate chemical product used and rate)*

K1	K2	K3
K4	K5	K6
K7	K8	K9
K10	K11	K12

Fertiliser application activities* (indicate fertiliser type used and rate; e.g. DAP, urea, potash, zinc sulphate, gypsum, foliar spray, FYM, green manure, vermicompost, sheep manure, oilseed cakes, bio fertilisers etc.).

K13	K14	K15
K16	K17	K18
K19	K20	K21
K22	K23	K24

Dates (dd/mm/yy)	Operation & method*	Machinery used and number of operations	Is custom hire used for operation? (yes or no)
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Land preparation and sowing operations (indicate activity, e.g. mechanical weed operations, harrowing, cultivator, planking, hand weeding, seed treatments)*

K25	K26	K27	K28
K29	K30	K31	K32
K33	K34	K35	K36
K37	K38	K39	K40
K41	K42	K43	K44

Irrigation operations (indicate activity, pre-sowing ridge/bunding manual, pre-sowing ridge/bunding mechanical, post-sowing ridge/bunding manual, post-sowing ridge/bunding mechanical, maintenance (channels etc)).

K45	K46	K47	K48
K49	K50	K51	K52
K53	K54	K55	K56
K57	K58	K59	K60

Harvest and threshing operations (grain and straw). * (Indicate methods e.g.: combine, manual, ripper based harvest, cutter, threshing with family labour, contract/rented threshing).

K61	K62	K63	K64
K65	K66	K67	K68
K69	K70	K71	K72
K73	K74	K75	K76

*Include details describing operation, in terms of machinery type (where used) and / or manual labour. Remember to indicate if a "custom hirer" performed a specific operation

Additional Information: Cost of Family labour (other than hired) =
Marketing Costs of grain =
Rented value of land =

COMMENTS ON CROP PERFORMANCE

L1



W H E A T

CROP RECORDING CARD

FARMER DETAILS & CROP CALENDAR

Farmer name: ^{A1}	S/o sh: ^{A2}	Calendar	Date (dd/mm/yy)
Village: ^{A3}	Telephone: ^{A4}	Sowing date ✓	A10
State: ^{A5}	PIN Code: ^{A6}	Field visit 1 ✓	A11
Farm area owned (acres): ^{A7}		Field visit 2 ✓	A12
Leased (acres): ^{A8}		Field visit 3 ✓	A13
Research / Extension officer: ^{A9}		Harvest ✓	A14

FIELD DETAILS

Records ✓

Field / site name	B1	Area sown (acres)	B3
Crop variety	B2	Target yield (quintal/acre)	B4
CROPPING HISTORY			
	2002	2001	2001
	<i>Kharif</i>	<i>Rabi</i>	<i>Kharif</i>
			2000
			<i>Rabi</i>
Name of crop	B5	B14	B23
Crop variety	B6	B15	B24
Herbicides used	B7	B16	B25
	B8	B17	B26
	B9	B18	B27
	B10	B19	B28
Grain yield (quintal/acre)	B11	B20	B29
Straw yield (quintal/acre)	B12	B21	B30
Land preparation (indicate ZT or CT)	B13	B22	B31

SOIL & STUBBLE

Records ✓

TOPSOIL DESCRIPTION

Texture (describe) ^{c1}	Colour (describe) ^{c2}	Depth hardpan (inches) ^{c3}
Sodicity (yes/no) ^{c4}	Salinity (yes/no) ^{c5}	Waterlogging (yes/no) ^{c6}

SOIL TEST RESULTS (optional, if available)

Soil test laboratory	C7	Date sampled (dd/mm/yy)	C11
Organic carbon %	C8	Available phosphorus (Colwell)	C12
Available nitrogen	C9	Soil pH (in water)	C13
Available potassium	C10	Salinity (Ec dSm ⁻¹)	C14

CROP RESIDUES RETENTION

Indicate percentage retained (%)	C15
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STUBBLE HEIGHT

Indicate height of stubble (cm)	C16
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STUBBLE STAND CHARACTERISTICS (tick box)

Anchored	C17	Loose	C18	Part burn	C19	Complete burn	C20
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SOWING & ESTABLISHMENT

1 ✓

Sowing date (dd/mm/yy)	D1	Sowing depth (inches)	D2
Seeding rate (kg/acre)	D3	Seed treatment (type & rate)	D4
Seed weight (grams /1000 seeds)	D5	Germination (percentage)	D6

CROP ESTABLISHMENT SYSTEM

Tillage system (tick box)	ZT	D7	Conventional till	D8
Seeding method (tick box)	Drill	D9	Broadcast	D10
Row spacing (cm)	D11			
Opener width (cm)	D12			
Cultivation depth (cm)	D13			

CROP EMERGENCE (measure either number of plants per metre of crop row, or number of plants per square metre of crop)

Seedling number (plants per metre of crop row)	D14
or Plant density (plants per square metre)	D15

CROP GROWTH

2 ✓

CROP GROWTH EVENNESS (tick box)

Very poor (<50% even)	E1	Poor (51-65% even)	E2	Good (66-80 even)	E3	Excellent (80+ even)	E4
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POSSIBLE REASONS FOR POOR CROP GROWTH (tick box/es)

Poor germination	E5	Stubbles	E11	Crust formation	E17
Water logging	E6	Lack of moisture	E12	Fertiliser imbalance	E18
Sowing depth	E7	Poor weed control	E13	Herbicide toxicity	E19
Faulty spray applic.	E8	Diseases	E14	Insect pests	E20
Salinity	E9	Alkalinity	E15	Crop lodging	E21
High temp at sowing	E10	High temp at tillering	E16	Frost	E22

TILLER DENSITY

2 ✓

Date measured (dd/mm/yy)	F1	Average number of tillers per plant (average of 5 quadrats (0.25 m ²) across one acre)	F2
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FLOWERING & HEAD DENSITY

3 ✓

Flowering date (dd/mm/yy)	G1	Average number of heads per m ² (average of 5 quadrats (0.25 m ²) across one acre)	G2
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CROP PROTECTION

1,2,3 ✓

INSECT PESTS AND DISEASES

Date (dd/mm/yy)	Insect pest or disease	Area of crop showing symptoms (%)	Control techniques (if any)	Observed results of control (% of crop area)	
				Satisfactory	Not satisfactory
H1	H2	H3	H4	H5	H6
H7	H8	H9	H10	H11	H12
H13	H14	H15	H16	H17	H18
H19	H20	H21	H22	H23	H24
H25	H26	H27	H28	H29	H30
H31	H32	H33	H34	H35	H36
H37	H38	H39	H40	H41	H42
H43	H44	H45	H46	H47	H48

WEED MONITORING - MAJOR WEEDS ONLY (Check weeds before and after spraying)

Date (dd/mm/yy)	Weed name	Weed numbers (counts from 10 quadrats, for calculation purposes only)	Weeds (per square metre)	Observed results of control (% of crop area)	
				Satisfactory	Not satisfactory
H49	H50	H51	H52	H53	H54
H55	H56	H57	H58	H59	H60
H61	H62	H63	H64	H65	H66
H67	H68	H69	H70	H71	H72
H73	H74	H75	H76	H77	H78
H79	H80	H81	H82	H83	H84
H85	H86	H87	H88	H89	H90
H91	H92	H93	H94	H95	H96
H97	H98	H99	H100	H101	H102
H103	H104	H105	H106	H107	H108
H109	H110	H111	H112	H113	H114

YIELD, QUALITY & MARKETING				Harvest ✓	
Grain quality and price				Straw quality and price	
Total area under wheat (acres)	11	Total area harvested for straw (acres)		I10	
Grain yield (quintal/acre)	12	Straw yield (quintal/acre)		I11	
Average wheat yield (quintal/acre)	13	Average straw yield (quintal/acre)		I12	
Total grain harvested (quintal)	14	Total straw harvested (quintal)		I13	
Total grain retained for consumption (quintal)	15	Total straw retained for consumption (quintal)		I14	
Total grain sold (quintal)	16	Total straw sold (quintal)		I15	
Price of grain sold (Rs. / quintal)	17	Price of straw sold (Rs. / quintal)		I16	
Grain size (bold medium or small)	18	Straw quality (poor, fair, excellent)		I17	
Ad mix (indicate % contamination)	19	Interest charges* (crop inputs) (Rs. / acre)		I18	

Interest charges imposed by money lender / bank for purchase of seed, fertiliser, & other crop inputs, expressed on an acre basis

RAINFALL & IRRIGATION												Records ✓		
Rainfall per month mm	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
	J1	J2	J3	J4	J5	J6	J7	J8	J9	J10	J11	J12		

IRRIGATION FREQUENCY			
Date (dd/mm/yy)	Hours irrigation (per acre)	Water quality (indicate good, sodic, saline or sodic-saline)	Comments
J13	J14	J15	
J16	J17	J18	
J19	J20	J21	
J22	J23	J24	
J25	J26	J27	
J28	J29	J30	
J31	J32	J33	

IRRIGATION SOURCE (tick box)			
Canal	J34	Tube well	J35

IRRIGATION METHOD (tick box)			
Flood	J36	Sprinkler	J37

IRRIGATION TYPE (tick box)			
Electric	J38	Engine	J39
		Hired	J40

• Indicate Labour charge per irrigation