

# TABLE OF CONTENTS

Foreword	i	Total Use of CAN in Punjab	24
Acknowledgements	ii	District-wise Use of Nitrogen	25
Introduction	iii	District-wise Use of Phosphorus	26
Methodology	iv	District-wise Use of Potassium	27
Summary and Way Forward	vi	NPK Usage Rates in Punjab	28
Acronyms	vii		
<b>SECTION 1 - GENERAL MAPS</b>		<b>Yield Maps</b>	
Districts of Punjab	2	Average Yield of Wheat	29
Population of Punjab	3	Average Yield of Rice/Paddy	30
District-wise Cultivated and Non-Cultivated Area of Punjab	4	Average Yield of Maize	31
Total Area Under Irrigation in Punjab	5	Average Yield of Cotton	32
Soil Fertility and Soil Health Management Practices in Punjab	6	Average Yield of Sugarcane	33
Land Cover Map of Punjab	7	Yield of Wheat Under Different Scenarios of Fertilizer Use in Punjab	34
Soil and Water Testing Facilities in Punjab	8	Yield of Rice/Paddy Under Different Scenarios of Fertilizer Use in Punjab	35
		Yield of Maize Under Different Scenarios of Fertilizer Use in Punjab	36
		Yield of Cotton Under Different Scenarios of Fertilizer Use in Punjab	37
		Yield of Sugarcane Under Different Scenarios of Fertilizer Use in Punjab	38
<b>SECTION 2 - RAPID FERTILIZER USE ASSESSMENT</b>		<b>Soil Maps</b>	
Fertilizer Use and Crop Yield	10	Major Soil Problems	39
Major Crops in Punjab	11	Soil and Water Testing Facilities Availed by Farmers	40
<b>Fertilizer Use Maps</b>		Region-wise Comparative Fertilizer Consumption in Punjab	41
Application of Urea to Wheat in Punjab	12		
Application of Urea to Rice/Paddy in Punjab	13	<b>SECTION 3 - MAPPING NFDC FERTILIZER OFFTAKE DATA</b>	
Application of Urea to Maize in Punjab	14	<b>Fertilizer Offtake Maps</b>	
Application of Urea to Cotton in Punjab	15	Total Offtake of Urea	43
Application of Urea to Sugarcane in Punjab	16	Total Offtake of DAP	44
Total Use of Urea in Punjab	17	Total Offtake of CAN	45
Application of DAP to Wheat in Punjab	18	District-wise Use of Nitrogen	46
Application of DAP to Rice/Paddy in Punjab	19	District-wise Use of Phosphorus	47
Application of DAP to Maize in Punjab	20	District-wise Use of Potassium	48
Application of DAP to Cotton in Punjab	21	NPK Usage Rates in Punjab	49
Application of DAP to Sugarcane in Punjab	22	Region-wise Comparative Fertilizer Offtake in Punjab	50
Total Use of DAP in Punjab	23		

## SECTION 4 - SOIL FERTILITY STATUS MAPPING

District-wise Average pH	52
District-wise Average Electrical Conductivity (EC)	53
District-wise Average Organic Matter Content	54
District-wise Average Available Phosphorus	55
District-wise Average Extractable Potassium	56

## DISTRICT PROFILES

Attock	58
Bahawalnagar	59
Bahawalpur	60
Bhakkar	61
Chakwal	62
Chiniot	63
Dera Ghazi Khan	64
Faisalabad	65
Gujranwala	66
Gujrat	67
Hafizabad	68
Jhang	69
Jhelum	70
Kasur	71
Khanewal	72
Khushab	73
Lahore	74
Layyah	75
Lodhran	76
Mandi Bahauddin	77
Mianwali	78

Multan	79
Muzaffargarh	80
Nankana Sahib	81
Narowal	82
Okara	83
Pakpattan	84
Rahim Yar Khan	85
Rajanpur	86
Rawalpindi	87
Sahiwal	88
Sargodha	89
Sheikhupura	90
Sialkot	91
Toba Tek Singh	92
Vehari	93
Key Messages	94-99

## ANNEXURES

Annexure I: Questionnaire for Rapid Fertilizer Use Assessment	102
Annexure II: Number of Soil Samples from Different Districts Analyzed by Fauji Fertilizer Company Limited	103
Annexure III: District-wise Results of the Soil Samples Analyzed by Fauji Fertilizer Company Limited	104-108
Annexure IV: Criteria for Soil Nutrient Analysis	109
Annexure V: Addresses of Soil and Water Testing Facilities in Punjab (English)	110
Annexure V: Addresses of Soil and Water Testing Facilities in Punjab (Urdu)	111
Annexure VI: Dominant Soil Series, Classification and Areas of their Occurrence	112-115