

AGRICULTURE

VISION

Self-reliance, food security and promotion of exportable high value crops in agriculture and transforming agriculture sector into a vibrant, diversified, sustainable and market driven sector through improved practices, efficient use of resources, and limiting losses due to insects, pests, salinity, alkalinity and revamping existing marketing system.

OBJECTIVES / POLICY

- Food security management in holistic manner.
- Emphasis on innovative technologies to bring vertical crop productivity.
- Increase farmer's income through increased crop productivity, better support price and diversified agricultural practices.
- Emphasis on high value agriculture i.e. flowers, fruits and vegetables.
- Efficient water conveyance and application through improved water courses, precision land leveling and drip and sprinkler irrigation.
- Sustained productivity improvement in wheat, rice, cotton and maize by strengthening public sector research and extension.
- Explore renewable and alternate energy resources in agriculture.
- Develop value chains and enforce input/output certification mechanism.
- Promotion of pulses cultivation and ensuring their availability at affordable prices.
- Efficient market infrastructure to ensure payment of fair price to producers and supply of goods to consumers at affordable prices.
- Ensure quality and timely availability of farm inputs.
- Strengthening research and extension services.
- Promotion of diversified crops like Olives and Grapes in Potohar region.
- Value addition.

STRATEGY

- Vertical enhancement in crop productivity through resource and emerging need based oriented innovative technologies.
- Emphasis on horticulture, cotton and maize
 - Encouraging participation of private sector research
 - Favourable horticulture policies
- Development of value chain and establishment of food certification mechanism
- Improvement of infrastructure and capacity building of research and extension
 - Incentives to scientists
 - International coordination
 - Private sector participation
- Increase farmers' income
 - Diversified agriculture
 - Enhancing productivity through adoption of new technologies
- Increase in national income
- Poverty alleviation
- Enhancement of fruit & vegetable production and productivity
 - Improve seed quality
 - Introduction of better management practices
 - Extension in shelf life
 - Availability of certified nursery plants
 - Develop value chain by engaging modern super markets
 - Transform supply-based to demand-oriented production
 - Establish food certification system
- Efficient use of water through watercourse improvement, precision land leveling and economical usage by adopting High Efficiency (Drip/Sprinkler) Irrigation Systems
- Decrease in edible oil import bill through boosting local oilseeds production
- Strengthening of triangle linkages among research, extension and farmer
- Provision of machinery / implements at subsidized rates.

- Improvement in accommodation facilities for students at Agriculture Universities.
- Award of 50 overseas Ph. D scholarships to University of Agriculture Faisalabad.

STRATEGIC INTERVENTIONS

- Punjab Irrigated Agriculture Productivity Improvement Project (PIPIP)-World Bank Assisted
- Enhancing Vegetable Production in Punjab
- Management of fruit fly with special reference to non-conventional methods
- Establishment of Punjab Bio-Energy Institute (PBI) at UAF
- Establishment of Sub-Campus of University of Agriculture Faisalabad at Depalpur, District Okara
- Construction of Girls Hostel for 1000 Students at UAF
- Extension Service 2.0 - Farmer Facilitation Through Modernized Extension
- Optimizing watercourse conveyance efficiency through enhancing lining length
- Provision of Laser Land Levelers to the farmers / service providers on subsidized costs
- Promotion of Agriculture Mechanization in Punjab
- Developing Potohar into an Olive Valley
- Scheme for 50 overseas Ph.D. Scholarships for University of Agriculture, Faisalabad
- Establishment of Muhammad Nawaz Sharif University of Agriculture, Multan (Phase II)
- Rehabilitation & Improvement of Khadija-tul-kubra Female Hostel Complex alongwith Construction of Sports Facility at UAF

ACHIEVEMENTS OF FINANCIAL YEAR 2014-15

Following schemes of Agriculture sector were completed during 2014-15:-

- Upscaling of fiber quality and infrastructure facilities of cotton in Punjab.
- Construction of hostel facilities for female employees and farmers' facilitation center at AARI-Faisalabad.

- Up-gradation of Provincial Reference Fertilizer Testing Laboratory at Lahore.
- Establishment of Provincial Pesticide Reference Laboratory at Kala Shah Kaku.
- Establishment of sub-campus of University of Agriculture, Faisalabad at Chak No. 427/EB, Burewala

OUTCOME BASED TARGETS 2015-16

Activities	2014-15		2015-16
	Targets	Achievements	Targets
Improvement of Water courses (No.)	1,525	1,525	1,500
Installation of irrigation system (Acres)	10,000	8,000	10,000
Provision of LASER Leveler Units to Service Providers/ Farmers (No.)	289	289	2000
Training courses on Improved Water Management Practices (No.)	150	143	150
Rehabilitation of Irrigation Schemes in Non- Canal areas (No.)	500	500	200
Demonstration of Plots for Enhancing Vegetable Production (No.)	375	375	375
Demonstration of Plots for Promotion of Pulses Cultivation (No.)	496	496	546
Provision of machinery / set of implements on subsidized rates (No.)	-	-	1200
Groundwater quality assessment with Electric Resistivity Meters (No.)	---	---	1056
Additional lining upto 50% length of already improved watercourses (No.)	---	---	500
Import of Olive saplings (No.)	---	---	280,000
Area to be covered with olive plantation (acres)	---	---	2,000
Installation of drip irrigation system & fencing of olive plantation at Farmer's field (acres)	---	---	2,000

TREND OF ALLOCATIONS

Rs. in Million		
Sr.No.	Year	Allocation
1.	2011-12	3,400
2.	2012-13	5,040
3.	2013-14	5,230
4.	2014-15	7,960
5.	2015-16	10,725*

* Including Rs. 100.000 million for other development program

OTHER DEVELOPMENT INITIATIVES FOR 2105-16

- Rs. 100.000 million for Punjab Biomass Energy Company (Pvt.) Ltd.

MTDF 2015-18
Agriculture : Summary
Development Programme 2015-16

Sub-Sector	Capital	Revenue	Total	F. Aid	Total
Ongoing Schemes					
Regular	123.245	798.414	921.659	4580.506	5502.165
ODP	0.000	100.000	100.000	0.000	100.000
Total	123.245	898.414	1,021.659	4,580.506	5,602.165
New Schemes					
Regular	153.113	4969.722	5122.835	0.000	5122.835
Total	153.113	4,969.722	5,122.835	0.000	5,122.835
Total (ongoing+new)	276.358	5,868.136	6,144.494	4,580.506	10,725.000
Development Program 2016-17					
Ongoing Schemes					
Regular	200.000	6764.520	6964.520	4059.372	11023.892
ODP	0.000	200.000	200.000	0.000	200.000
Total	200.000	6,964.520	7,164.520	4,059.372	11,223.892
New Schemes					
Regular	168.424	5466.694	5635.119	0.000	5,635.119
Total	168.424	5,466.694	5,635.119	0.000	5,635.119
Total (ongoing+new)	368.424	12,431.214	12,799.639	4,059.372	16,859.011
Development Program 2017-18					
Ongoing Schemes					
Regular	300.000	10146.780	10446.780	4,000.000	14446.780
ODP	0.000	400.000	400.000	0.000	400.000
Total	300.000	10,546.780	10,846.780	4,000.000	14,846.780
New Schemes					
Regular	185.267	6013.364	6198.630	0.000	6198.630
Total	185.267	6,013.364	6,198.630	0.000	6,198.630
Total (ongoing+new)	485.267	16,560.144	17,045.410	4,000.000	21,045.410
MTDF 2015-18: Grand Total					48,629.421

AGRICULTURE: SUMMARY

(Million Rs.)

Type / Sub Sector	No. of Schemes	Provision for 2015-16				Projection for 2016-17	Projection for 2017-18
		Capital	Revenue	Foreign Aid	G. Total (Cap+Rev)		
<u>ON-GOING SCHEMES</u>							
Regular	6	32.705	29.416	0.000	62.121	5.227	0.000
Agriculture Mechanization	2	84.340	13.880	0.000	98.220	4.230	0.000
Agriculture Extension	3	0.000	292.358	0.000	292.358	178.942	61.640
Water Management	1	0.000	0.000	4,580.506	4,580.506	4,059.372	0.000
Floriculture	1	6.200	2.695	0.000	8.895	1.920	0.000
Agriculture Education	4	0.000	460.065	0.000	460.065	468.270	0.000
Total: ON-GOING SCHEMES	17	123.245	798.414	4,580.506	5,502.165	4,717.961	61.640
<u>NEW SCHEMES</u>							
Agriculture Mechanization	4	94.453	604.150	0.000	698.603	675.000	0.000
Agriculture Extension	1	0.000	1,934.000	0.000	1,934.000	424.767	435.097
Water Management	3	0.000	1,775.000	0.000	1,775.000	1,599.109	1,599.109
Agriculture Education	4	0.000	330.758	0.000	330.758	845.762	771.256
Agriculture Research	6	58.660	325.814	0.000	384.474	2,761.293	2,718.657
Total: NEW SCHEMES	18	153.113	4,969.722	0.000	5,122.835	6,305.931	5,524.119
Grand Total	35	276.358	5,768.136	4,580.506	10,625.000	11,023.892	5,585.759

AGRICULTURE

(Million Rs.)

GS No	Scheme Information Approval Date / Location / scheme ID	Est. Cost	Accum. Exp June,15	Provision for 2015-16			MTDF Projections		Throw fwd Beyond June, 2018
				Cap	Rev	G. Total (Cap+Rev)	2016-17	2017-18	
1	2	3	4	5	6	7	8	9	10

ON-GOING SCHEMES

Regular

3592	Strengthening of Research Facilities at Fodder Research Sub-station, AARI, Faisalabad for the Development of Silage type Corn Varieties 06-09-2013 Faisalabad LO13000087 C ,LO13000060 R ,LO13000614 C1	18.581	12.102	2.155	2.590	4.745	0.000	0.000	0.000
3593	Strengthening of Food Technology & PHRC, Ayub Agricultural Research Institute, Faisalabad 29-07-13 Faisalabad LO13000090 C ,LO13000099 R	62.695	41.047	21.000	3.300	24.300	0.000	0.000	0.000
3594	Development of Genetic Engineering Facilities at Agri. Biotechnology Research Institute, AARI, Faisalabad 29-07-2013 Faisalabad LO13000100 R	69.500	57.139	0.000	12.150	12.150	0.000	0.000	0.000
3595	Establishment of Soil and Water Testing Lab at Chiniot and Nankana Sahib. 11-08-14 Punjab LO14001322 C ,LO14000343 R	16.883	10.606	3.000	1.845	4.845	0.000	0.000	0.000
3596	Development of Castor Bean varieties and sunflower hybrids to enhance the oilseeds production. 10-11-14 Punjab LO14001321 C ,LO14000328 R	10.000	4.609	2.000	3.000	5.000	0.000	0.000	0.000
3597	Additional Facilities for Improvement in Fruit Yield and Quality of Guava, Date and Pomegranate. 11-8-14 Punjab LO14001319 C ,LO14000318 R	22.124	4.888	4.550	6.531	11.081	5.227	0.000	0.000
Sub-Total: Regular		199.783	130.391	32.705	29.416	62.121	5.227	0.000	0.000

Agriculture Mechanization

3598	Construction of New Agricultural Offices Complex, at Murree Road, and Soil Conservation, Agricultural Engineering Workshops and Offices at Adyala Road, Rawalpindi. 04-11-2013 Rawalpindi LO13000613 C ,LO15002034 R	217.743	150.000	57.740	10.000	67.740	0.000	0.000	0.000
3599	Introduction and Adaptation of Advanced Technologies to Mechanize Various Farm Operations for Enhancing Crop Production 11-08-2014 Multan LO14001324 C ,LO14000359 R	46.000	8.104	26.600	3.880	30.480	4.230	0.000	0.000
Sub-Total: Agriculture Mechanization		263.743	158.104	84.340	13.880	98.220	4.230	0.000	0.000

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1	2	3	4	5	6	7	8	9	10
Agriculture Extension									
3600	Enhancing Vegetable Production in Punjab 11-02-14 Punjab , All Tehsils LO13002013 R	410.870	161.338	0.000	133.503	133.503	113.820	0.000	0.000
3601	Management of fruit fly with special reference to non-conventional methods 20-10-14 Punjab LO14000362 R	227.610	10.000	0.000	91.406	91.406	62.892	61.640	0.000
3602	Promotion of Pulses Cultivation in Punjab 25-03-14 Punjab , All Tehsils LO14000371 R	148.790	57.499	0.000	67.449	67.449	2.230	0.000	0.000
Sub-Total: Agriculture Extension		787.270	228.837	0.000	292.358	292.358	178.942	61.640	0.000
Water Management									
3603	Punjab Irrigated Agriculture Productivity Improvement Project (PIPIP)-World Bank Assisted 16-08-2012 Punjab , All Tehsils of Punjab LO11000685 R	21,249.997	13,290.425	0.000	4,580.506	4,580.506	4,059.372	0.000	0.000
				Local:	0.000	0.000			
				Foreign:	0.000	4,580.506			
Sub-Total: Water Management		21,249.997	13,290.425	0.000	4,580.506	4,580.506	4,059.372	0.000	0.000
Floriculture									
3604	Establishment Of Export Oriented Floriculture Centre At Pattoki 17-11-2014 Kasur , Pattoki LO14001778 C ,LO14000341 R	15.000	3.725	6.200	2.695	8.895	1.920	0.000	0.000
Sub-Total: Floriculture		15.000	3.725	6.200	2.695	8.895	1.920	0.000	0.000
Agriculture Education									
3605	Establishment of Sub-Campus of PMAS-Arid Agriculture University Rawalpindi at Attock 13-10-14 Attock LO14000345 R	188.260	150.116	0.000	34.144	34.144	0.000	0.000	0.000
3606	Establishment of Punjab Bio-Energy Institute (PBI) at UAF 16-10-2014 Faisalabad LO14000342 R	499.231	200.000	0.000	175.921	175.921	123.310	0.000	0.000
3607	Construction of Girls Hostel for 1000 Students at UAF 16-10-2014 Faisalabad LO14000324 R	491.803	250.000	0.000	150.000	150.000	0.000	0.000	0.000
3608	Establishment of Sub-Campus of University of Agriculture Faisalabad at Depalpur, District Okara 13-04-2015 Okara , Depalpur LO14000344 R	454.960	10.000	0.000	100.000	100.000	344.960	0.000	0.000
Sub-Total: Agriculture Education		1,634.254	610.116	0.000	460.065	460.065	468.270	0.000	0.000
Total: ON-GOING SCHEMES		24,150.047	14,421.598	123.245	5,378.920	5,502.165	4,717.961	61.640	0.000

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NEW SCHEMES

Agriculture Mechanization

3609	Land Stabilization and Erosion Control Through Soil Conservation Measures in Aliot Area Un-Approved Rawalpindi , Murree LO15002052 R	15.750	0.000	0.000	15.750	15.750	0.000	0.000	0.000
3610	Construction of Agricultural Engineering offices and Workshop at Toba Tek Singh Un-Approved Toba Tek Singh LO15002035 C	7.853	0.000	7.853	0.000	7.853	0.000	0.000	0.000
3611	Promotion of Agriculture Mechanization in Punjab Un-Approved Punjab LO15002036 C ,LO15002037 R	1,184.000	0.000	4.600	587.400	592.000	592.000	0.000	0.000
3612	Management of Groundwater Resources with Electric Resistivity Meter Services in Puniab. Un-Approved Punjab , All Tehsils of Punjab LO15003101 C ,LO15003104 R	166.000	0.000	82.000	1.000	83.000	83.000	0.000	0.000
Sub-Total: Agriculture Mechanization		1,373.603	0.000	94.453	604.150	698.603	675.000	0.000	0.000

Agriculture Extension

3613	Extension Service 2.0 -Farmer Facilitation Through Modernized Extension. Un-Approved Punjab , All Tehsils of Punjab LO15003106 R	4,400.546	0.000	0.000	1,934.000	1,934.000	424.767	435.097	1,606.682
Sub-Total: Agriculture Extension		4,400.546	0.000	0.000	1,934.000	1,934.000	424.767	435.097	1,606.682

Water Management

3614	Lining of Watercourses at Chak No.469/GB, Samundri, District Faisalabad Un-Approved Faisalabad , Samundri LO15004106 R	25.000	0.000	0.000	25.000	25.000	0.000	0.000	0.000
3615	Optimizing watercourse conveyance efficiency through enhancing lining length Un-Approved Punjab , - LO15002038 R	6,896.437	0.000	0.000	1,300.000	1,300.000	1,149.109	1,149.109	3,298.219
3616	Provision of Laser Land Levellers to the Farmers / Service Providers on Subsidized Costs. Un-Approved Punjab , All Tehsils of Punjab LO15003105 R	1,350.000	0.000	0.000	450.000	450.000	450.000	450.000	0.000
Sub-Total: Water Management		8,271.437	0.000	0.000	1,775.000	1,775.000	1,599.109	1,599.109	3,298.219

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Agriculture Education

3617	Scheme for 50 overseas Ph.D. Scholarships for University of Agriculture, Faisalabad. Un-Approved Faisalabad LO15002053 R	724.031	0.000	0.000	45.188	45.188	144.525	144.645	389.674
3618	Rehabilitation & Improvement of Khadija-tul-kubra Female Hostel Complex alongwith Construction of Sports Facility at UAF Un-Approved Faisalabad LO15002040 R	155.000	0.000	0.000	80.000	80.000	75.000	0.000	0.000
3619	Establishment of Muhammad Nawaz Sharif University of Agriculture, Multan (Phase II) Un-Approved Multan LO15002041 R	1,352.848	0.000	0.000	100.000	100.000	626.237	626.611	0.000
3620	Testing Indigenous Hydroponic Greenhouses for Vegetables Growing at Various Locations in Punjab. Un-Approved Punjab , All Tehsils LO15002039 R	105.570	0.000	0.000	105.570	105.570	0.000	0.000	0.000
Sub-Total: Agriculture Education		2,337.449	0.000	0.000	330.758	330.758	845.762	771.256	389.674

Agriculture Research

3621	Evolution of Sorghum and Corn Genotypes for the Production of Conserved Fodders. Un-Approved Sargodha LO15002044 C ,LO15002045 R	54.558	0.000	12.850	3.459	16.309	19.228	12.592	6.429
3622	Up-gradation of Main Library, Ayub Agriculture Research Institute, Faisalabad through IT Interventions. Un-Approved Faisalabad LO15002043 C ,LO15002042 R	19.760	0.000	1.700	4.050	5.750	11.890	2.120	1.200
3623	Provision of lab and field equipment for Development of Basmati Rice Hybrid Resistant to Bacterial Leaf Blight, Flood and Salinity in Punjab.(2015-16 to 2019-20) Un-Approved Lahore , Kala Shah Kaku LO15002047 C ,LO15002046 R	45.160	0.000	3.700	5.140	8.840	15.100	8.230	17.990
3624	Introduction and adaptation of high value crops and fruits in climatic conditions of Punjab. Un-Approved Punjab LO15002051 C ,LO15002050 R	250.000	0.000	10.000	30.000	40.000	60.000	50.000	100.000
3625	Developing Potohar into an Olive Valley Un-Approved Rawalpindi,Attock , Potohar LO15002048 C ,LO15002049 R	11,043.000	0.000	24.100	275.900	300.000	2,635.750	2,635.750	5,471.500

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1	2	3	4	5	6	7	8	9	10
3626	Provision of Additional Research Facilities for Development of Heat Resilient Maize Hybrids at Maize & Millets Research Institute. Un-Approved Faisalabad, Sahiwal LO15003100 C ,LO15003103 R	64.160	0.000	6.310	7.265	13.575	19.325	9.965	21.295
Sub-Total: Agriculture Research		11,476.638	0.000	58.660	325.814	384.474	2,761.293	2,718.657	5,618.414
Total: NEW SCHEMES		27,859.673	0.000	153.113	4,969.722	5,122.835	6,305.931	5,524.119	10,912.989
Grand Total		52,009.720	14,421.598	276.358	10,348.642	10,625.000	11,023.892	5,585.759	10,912.989