IMPROVEMENT OF CROP BULLETIN REPORTS

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APPLICATION OF REMOTE SENSING IN AGRICULTURE.

- Reduced time consumption.
- Improvement of Agriculture statistics.
- Weather Forecasting.
- Agro-Meteorological Data Acquiring.
- Strengthen the policy and decision making.

IMPORTANCE / BENEFITS

•Planning has an important role which needs information about basic food resources.

• Agriculture statistics has extreme importance in crop cycles

•RS and GIS Technology is the foremost necessity of the present era to get accurate & reliable data in mean time for the decision making and farming policies.

TRADITIONAL METHOD

- Time consuming.
- Late data be obtained
- More labour to be required.

ACHIEVEMENTS

ESTABLISHMENT OF CRSC LAB:

•CRSC Lab at Hyderabad (Sindh) has been established under the project funded by USDA with collaboration of FAO & SUPARCO on May, 20th 2014.

UTILIZATION OF SMART PHONE APPLICANTION:

•AFSS is a smart phone application introduced by SUPARCO for collection data from field.

FACILITIES PROVIDED

•Operation equipment's provided by the project

S. No	Description of Items	Qty	Remarks
	Equipment under procurement		
1	a) Dell PowerEdge T620 Server b) Spare hard drives (2TB)	01 02	
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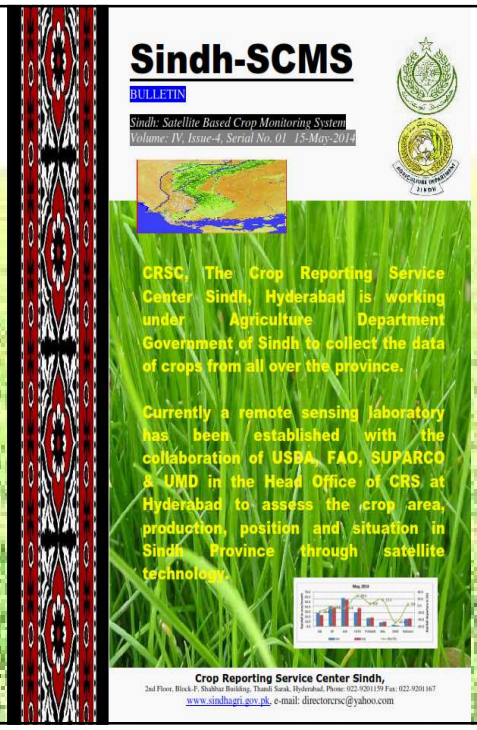
3	a) Dell precision T3500 Workstations (Intel Xeon Processor with 6GB RAM, 750 GB hard drive) b) 24" monitors	03 06	
4	APC Symmetra 6 KVA (standalone or rack mounted, N+1 redundancy , input 220 V/ output 220)	02	
5	HP A3 Color laser Printer- CP552dn	01	
6	Mitsubishi Electric/General Air Conditioner 1½ tons cooling capacity	01	
7	Networking Equipment (Switch 28 ports, cables, connectors, ducts etc)	01	
8	GPS (Garmin GPSMAP 78s/GeoExplorer 3000 Series)	01	
9	Samsung Galaxy Note 2 (Android OS, v4.1.1/4.1.2 Jelly Bean, Quad-core 1.6 GHz Cortex-A9, 8 MP camera + secondary, GPS /A-GPS support)	12	

CROP BULLETIN:

With regard to making and publication of the crop bulletin containing all possible information with respect to NDVI, weather element, utilization of area and other resources a bulletin was designed.



CROP BULLETIN:

e-Crop Bulletin was published and distributed among the following organization:

- Water User Associations
- Agriculture University Tandojam.
- Social Media
- Farmer Organizations
- Different departments of the Sindh Government

TRAININGs:

•FAO and SUPARCO with the collaboration of USDA many trainings in field staff of CRSC Sindh for awareness of GIS Remote sensing techniques.

•Two weeks training was conducted in 2013 under the umbrella of UMD, USDA & FAO.

IMPROVEMENTS

•We have enhanced the capacity in the use of RS for crop monitoring, area estimation and yield forecasting.

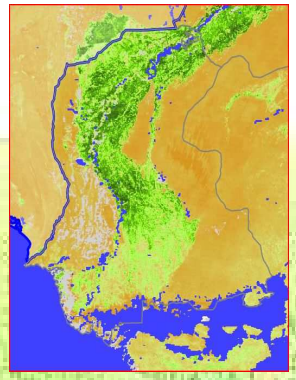
•CRSC Sindh have decided to published Monthly e-bulletin.

•CRSC is working parallel to area frame sampling survey through RS in segment provided by SUPARCO throughout Sindh province.

•CRSC Sindh is going to use latest techniques of RS.

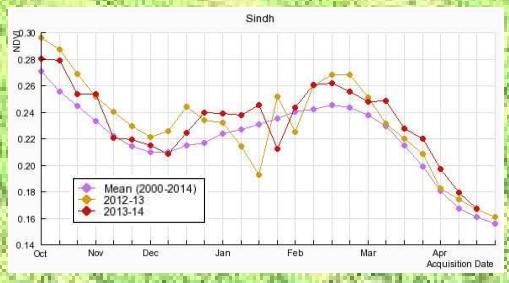
GLAM:

It is very useful and informative tools we are usually to tally / Compare statistics, collect from field offices with GLAM, Charts and Histogram to discover exact statistics.



FINAL ESTIMATE OF WHEAT CROP OF SINDH PROVINCE FOR THE YEAR 2013-14

PROVINCE/ DISTRICTS	AREA IN HECTARES FINAL ESTIMATE 2013-14		
	Irrigated	Un-Irrigated	TOTAL
SINDH	**1,070,986**	**50,650**	**1,121,636**
Khair pur	98,851	4,022	102,873
Ghotki	95,547	5,938	101,485
Sukkur	45,181	3,005	48,186
Naushehro feroze	101,894	3,978	105,872
Shaheed Benazir Abad	79,106	5,116	84,222
Jacobabad	31,756	1,209	32,965
Kashmore	32,921	3,211	36,132
Shikarpur	34,015	1,992	36,007
Larkana	40,602	6,277	46,879
Kamber Shahdadkot	47,652	2,066	49,718
Sanghar	107,062	-	107,062
Tharparkar	1,336	733	2,069
Mirpurkhas	64,388	-	64,388
Umerkot	36,617	-	36,617
Dadu	67,565	5,719	73,284
Jamshoro	36,660	3,439	40,099
Hyderabad	14,942	25	14,967
Matiari	35,519	1,811	37,330
Tando Allahyar	32,571	-	32,571
Tando Mohammad Khan	13,093	661	13,754
Badin	35,811	803	36,614
Thatta	16,247	645	16,892
Karachi	1,650	-	1,650



CONCLUSION:

This project is very much useful for CRCS, Sindh in order to access reliable data and also to generate authentic statistics and utilize latest technologies to boost-up the capability and efficiency of this institute.

This pilot project also supports the professionals to get aware by the potentials of space technologies and exchange and explore ideas, to obtain exact precise statistics in mean time. However, CRCS Sindh is facing few technical difficulties for utilization of latest equipment/techniques to enhance work efficiency and publication of crop bulletin reports as well.

THANKS

FOR YOUR ATTENTION