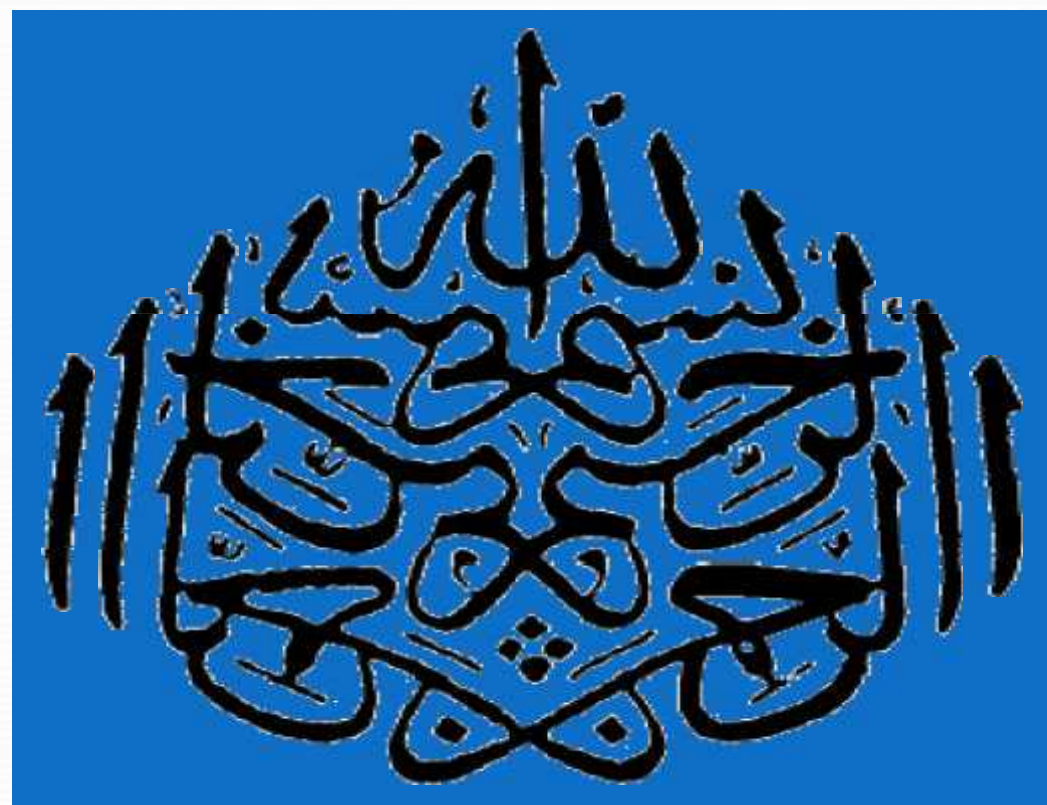




CAUSES OF LOW SUGAR CANE
PRODUCTIVITY IN SINDH. A CASE
STUDY OF SHAHMURAD AREA

BY

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SUGAR CANE ADVISOR



INTRODUCTION
SOIL
WATER
VARIETIES
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CONCLUSION

**Yield of sugarcane and sugar recovery in
main sugarcane growing countries of the
world:**

Country	Cane yield (t/ha)	Sugar recovery (%)	Sugar yield (t/ha)
Australia	100.4	13.8	13.85
Egypt	110.8	11.5	12.74
Brazil	68.4	14.5	9.91
U.S.A.	80.2	11.7	9.38
Colombia	80.5	11.5	9.26
Mexico	79.5	11.6	9.22
India	66.9	9.9	6.62
Pakistan	50.3	9.2	4.63
World Avg.	64.4	10.6	6.82

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World Avg.	64.4	10.6	6.82

AVERAGE, YIELD OF SUGARCANE TONNES PER HECTARE 1994-1995 TO 2010-2011

Years	Punjab	Sindh	K.P.K	Balochista n	Pakistan	INDIA
1994-95	43	57.3	44.7	55.8	46.7	71.3
1995-96	44.4	54	44.7	49.2	47	67.8
1996-97	39.7	52.2	44.7	51.4	43.5	66.5
1997-98	46.9	61.2	45.6	53.6	50.3	71.1
1998-99	42.6	63	45.7	54.4	47.8	71.2
1999-2000	40.3	62	46.3	54.4	45.9	70.9
2000-2001	43.3	52.2	46.3	51.9	45.9	68.6
2001-2002	47	48.6	45.2	83.7	47.2	67.4
2002-2003	45.1	53.3	48.1	48.6	47.3	64.6
2003-2004	48.5	56.2	45.2	50	50.1	59.4
2004-2005	51.24	43.52	45.43	56.25	48.89	64.8
2005-2006	46.3	61.38	41.58	56.25	48.84	66.9
2006-2007	52.74	58.4	45.11	56.25	53.12	69
2007-2008	46.21	60.86	45.73	56.2	51.49	68.9
2008-2009	48.5	50	45	47.4	48.64	64.6
2009-2010	51.6	57.7	44.7	50.9	52.18	70
2010-2011	55.75	60.79	45.6	51	56	68.6

Long & Short Term Changes in Yield of Sugar Cane

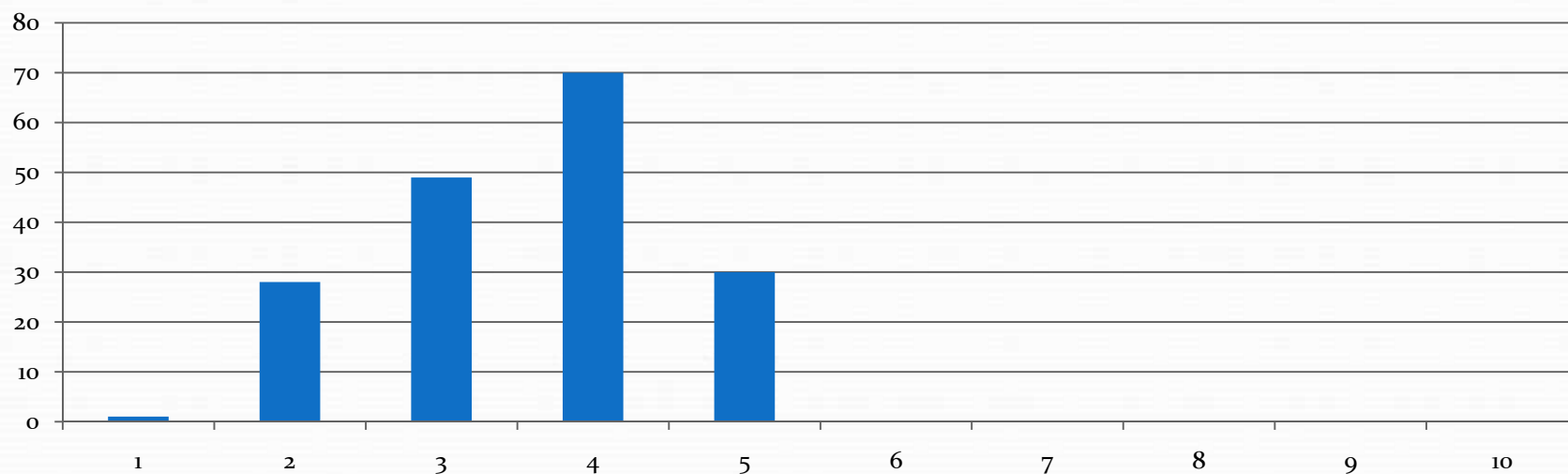
Provinces	Long-Term (1999-2009)	Short -Term Changes (2008-09 over 2007-08)		
	%			
		2007-08	2008-09	Change
		Tonnes per Hectare		%
Pakistan	(+)1.0	51.5	48.8	(-)5.1
Punjab	(+)1.7	48.7	47.2	(-)3.0
Sindh	(-)0.1	60.9	54.2	(-)10.9
K.P.K	(-)0.2	45.7	45.6	(-)0.2
Balochistan	(-)1.3	56.2	49.2	(-)12.4

Circle wise average Soil Report of the Project Area

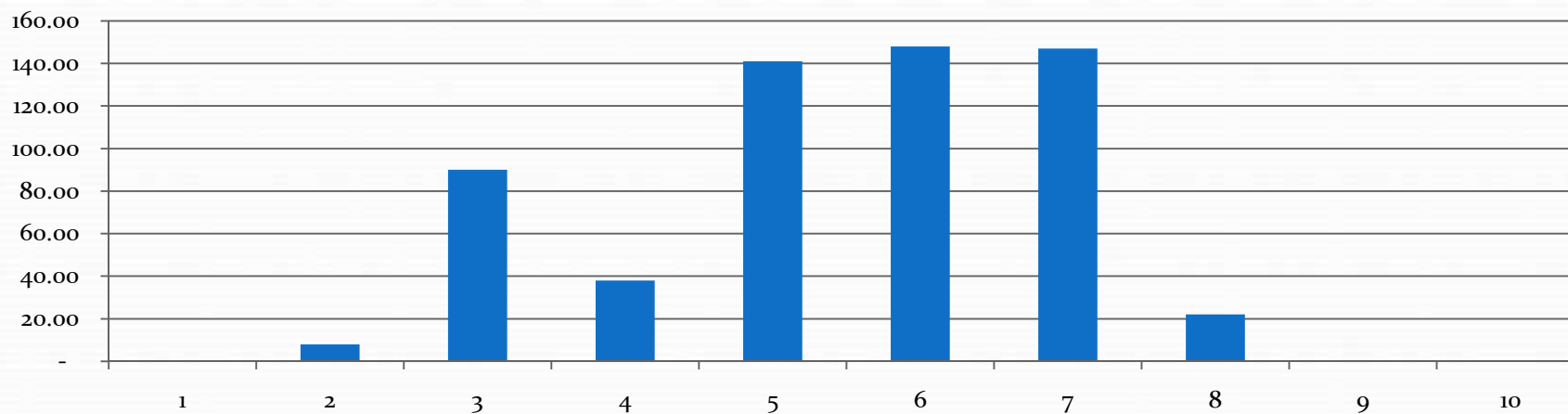
S.No	Name of Circle	No.of Sample	pH	Ec dS/m	Organic Matter %	Nitrogen %	Phosphorus ppm	Potassium ppm
1	Jhoke Shareef	32	8.2	1.11	0.75	0.04	3.19	159
2	Bathoro	20	8.2	2.12	1.08	0.06	2.55	239
3	Darro	45	7.9	1.65	0.84	0.05	3.11	171
4	Amra	24	7.8	3.02	1.08	0.06	4.33	312
5	Shah Kareem	72	8.2	0.99	0.87	0.05	2.69	179
6	Ditta Wah	43	8.2	0.73	1.12	0.18	3.58	218
7	Pinyari	88	8.1	1.52	0.83	0.05	3.98	254
Total / Avg		324	8.1	1.59	0.94	0.07	3.35	219
Normal values			8	1	2.3	-	20	200

Number of irrigation Applied by the Growers

Jhok Sharif

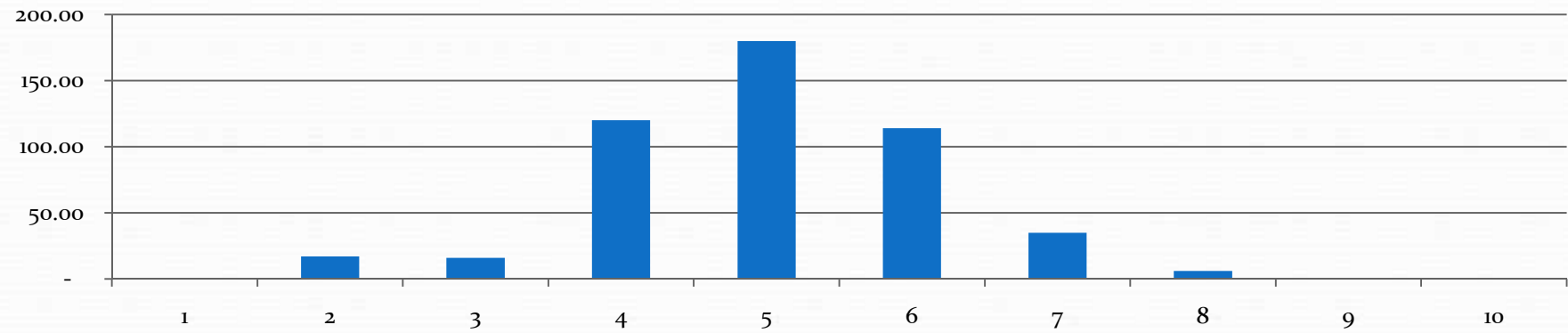


Bathoro

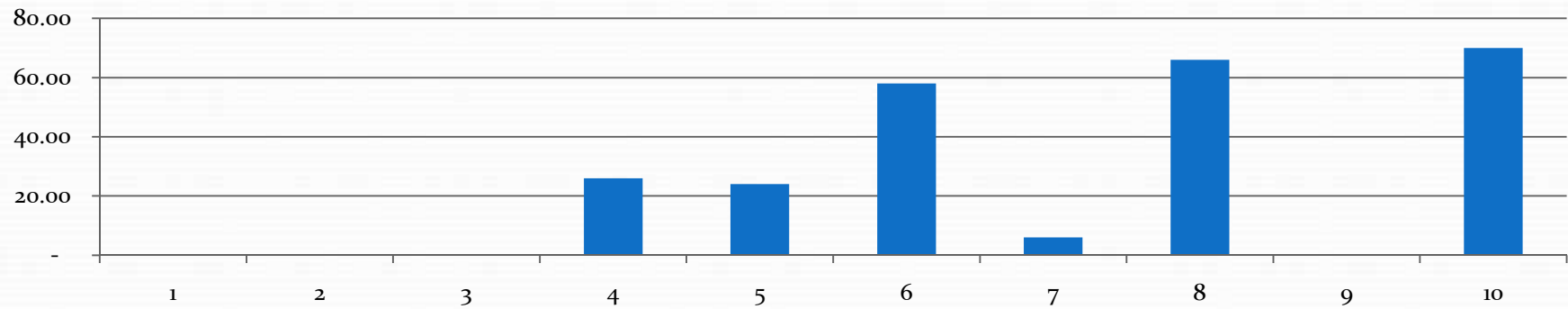


Number of irrigation Applied by the Growers

Darro

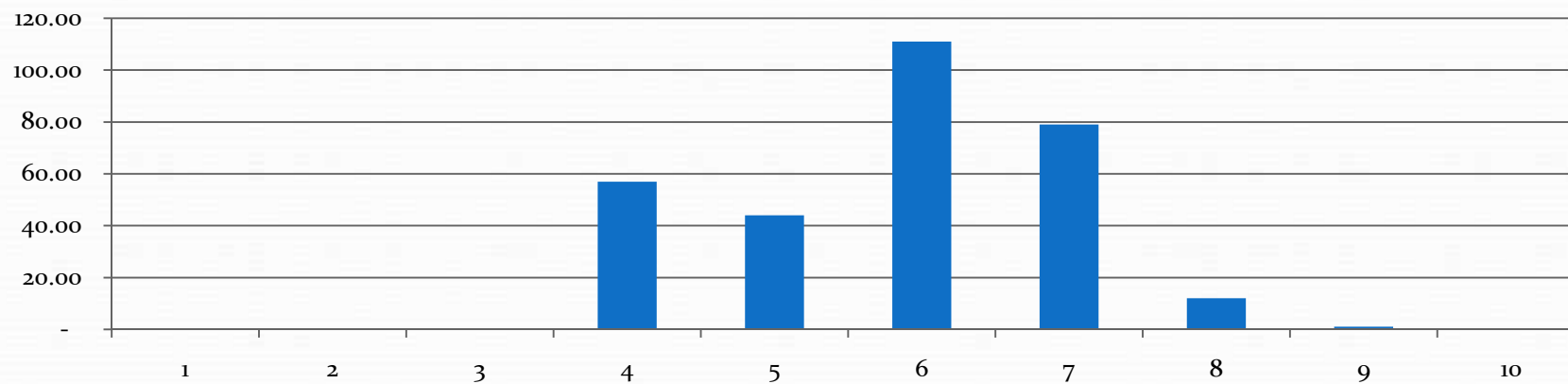


Bannu

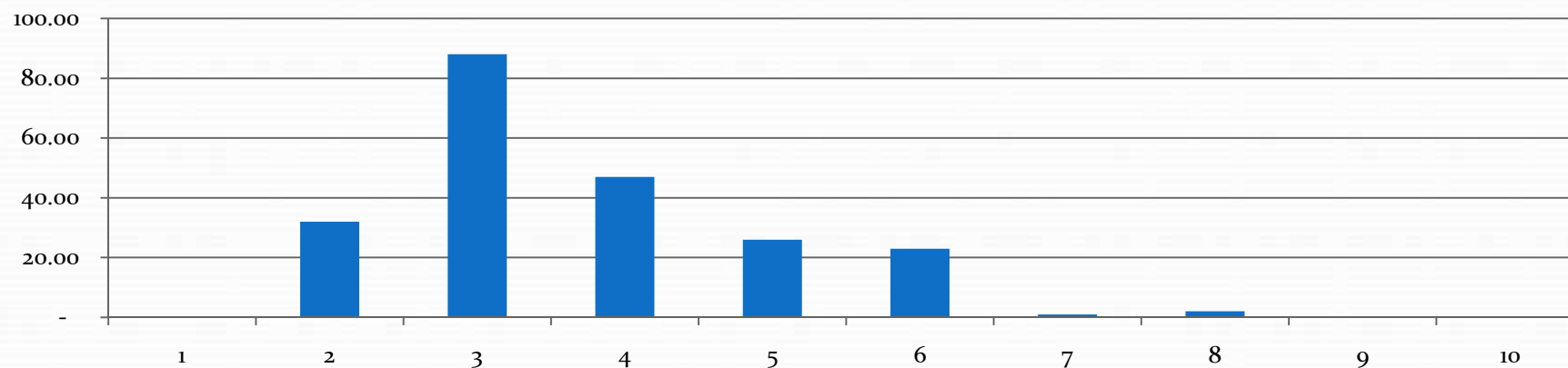


Number of irrigation Applied by the Growers

Amra

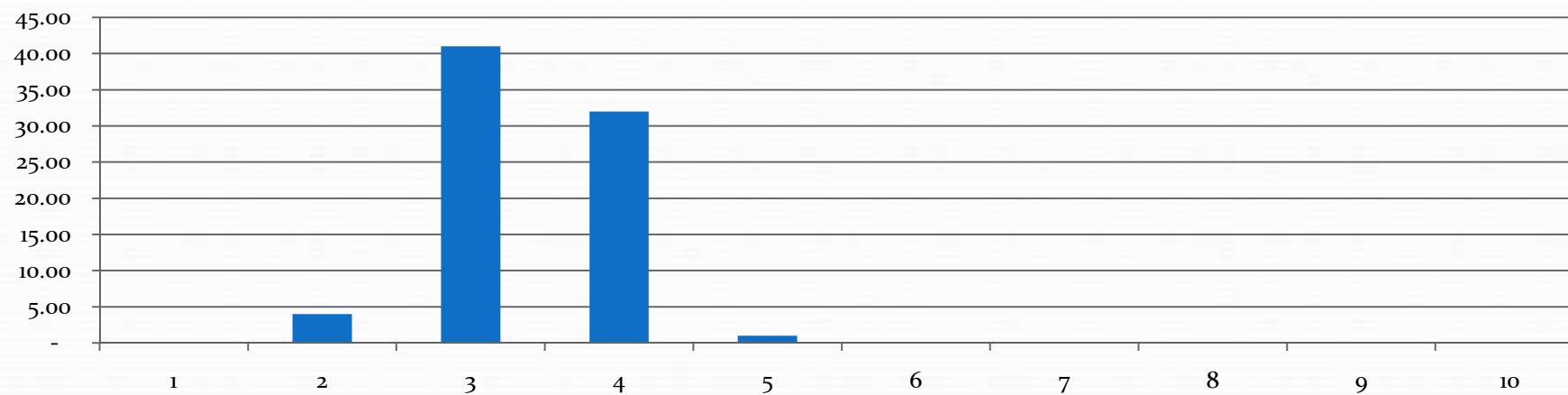


Bulri

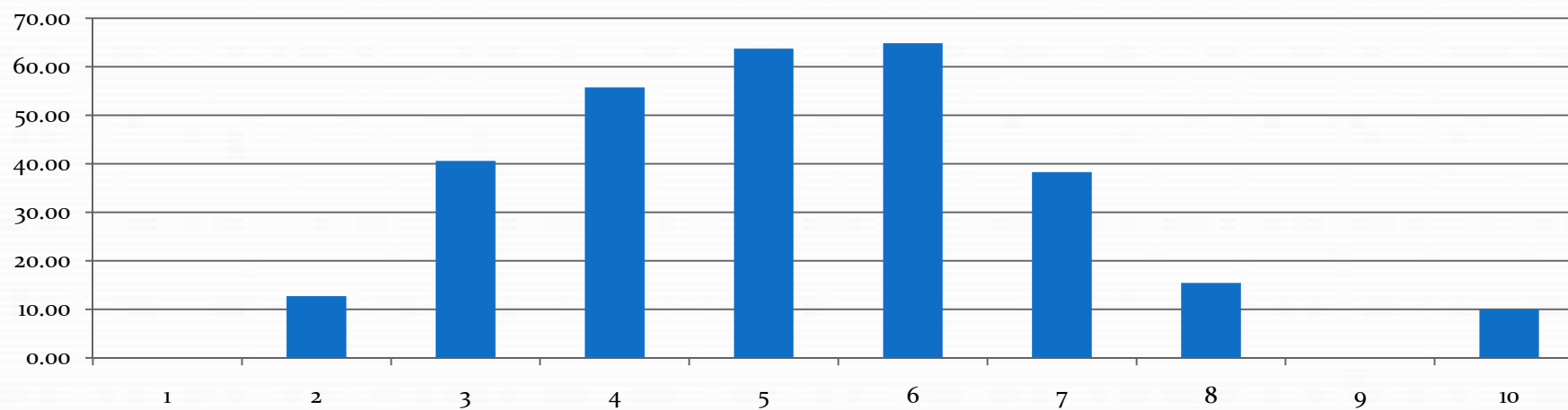


Number of irrigation Applied by the Growers

Ditta Wah

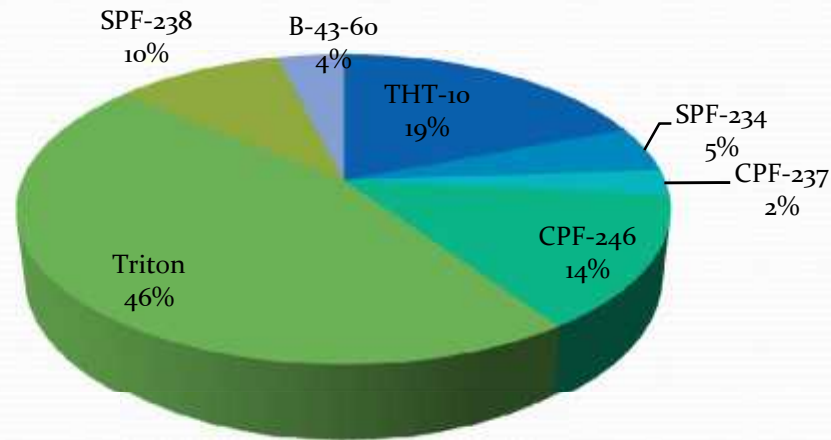


TOTAL:

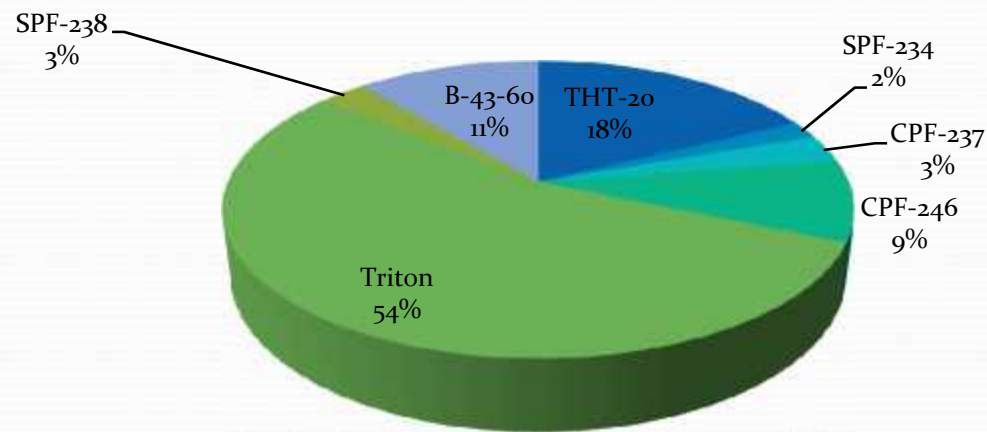


Percentage of Growers Having Different varieties

Jhok Sharif

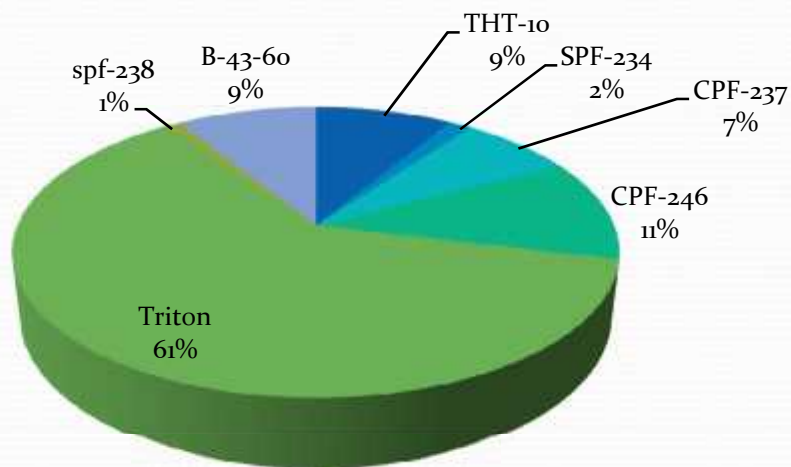


Bathoro

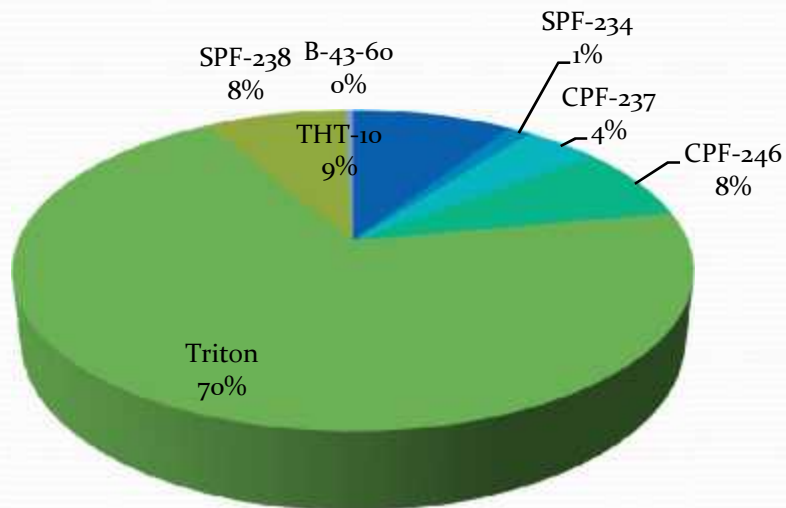


Percentage of Growers Having Different varieties (contd)

Darro

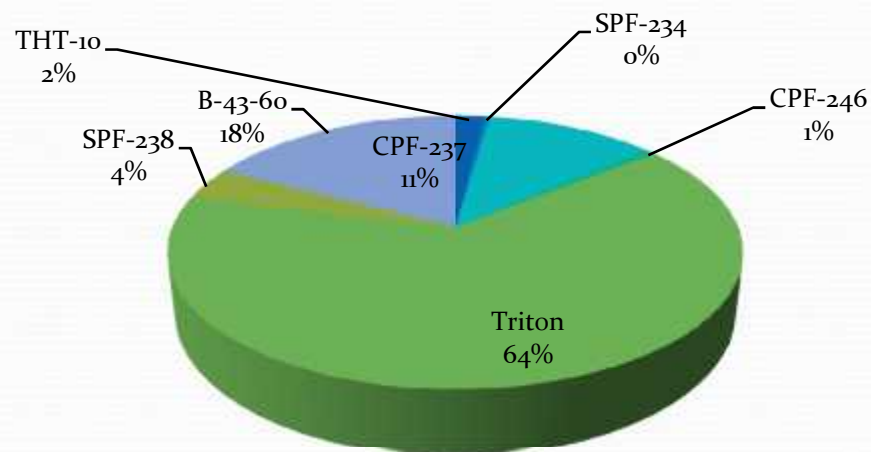


Bannu

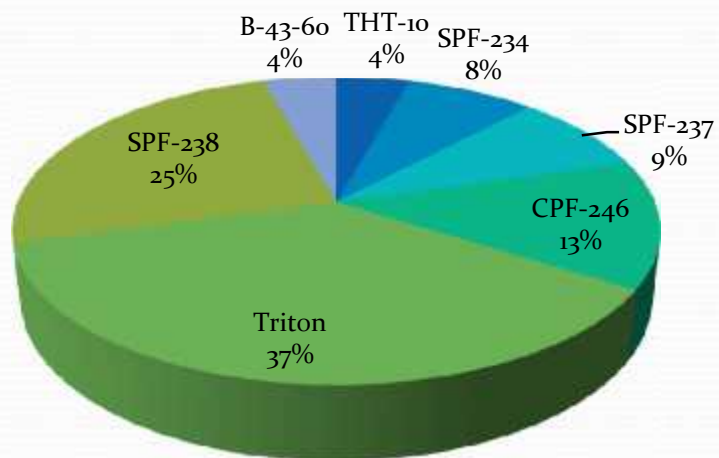


Percentage of Growers Having Different varieties (contd)

Amrra

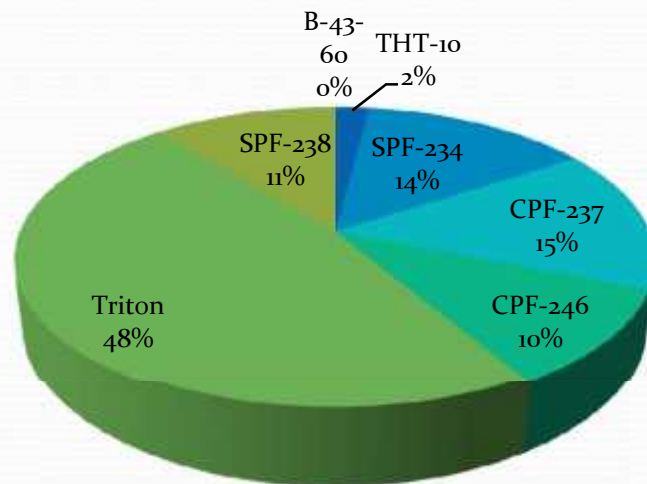


Bulri

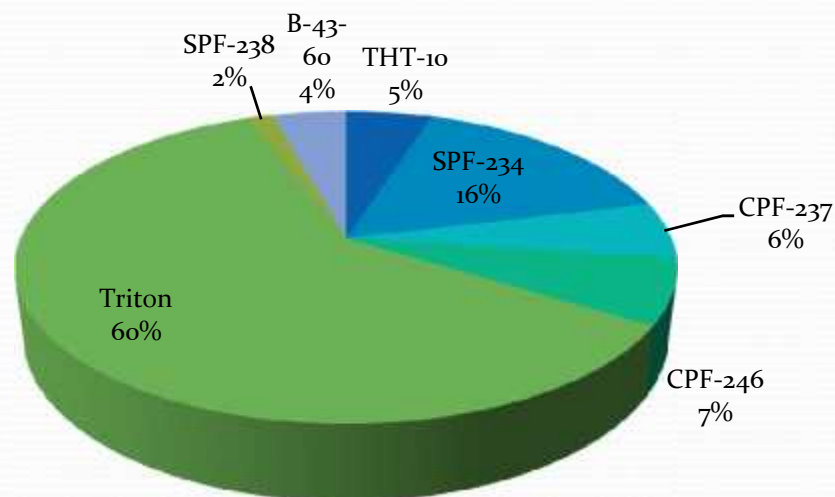


Percentage of Growers Having Different varieties (contd)

Dittawah



Pinyari



FERTILIZER APPLIED BY THE GROWERS OF DIFFERENT CIRCLES TO SUGARCANE UPTO JUNE 2012

Sno.	Sector	No.of Growers	Fertilizer Applied				Remarks
			DAP (AV:)	Urea (AV:)	Urea Future (AV:)	Total Urea Average	
1	Jhok Sharif	178	0.95	1.53	1.64	3.17	
2	Bathoro	594	0.99	2.8	1.03	3.83	
3	Darro	488	0.83	2.75	1.17	3.92	
4	Bannu	250	1.64	2.1	1.75	3.85	
5	Amra	304	0.29	1.07	0.37	1.44	
6	Bulri	219	0.63	1.89	1.48	3.37	
7	Ditta Wah	78	0.66	2.77	2.86	5.63	
	TOTAL:	2111	0.86	2.13	1.47	3.60	

Conclusions

1. Soil analysis showed higher pH & Ec in most of the samples. The soil was slightly saline and poor organic matter. Soil was also deficient in nitrogen phosphorus.
2. The irrigation water was abundant in most of the circles where majority of farmers applied more than four irrigations. However, shortage of irrigation was observed in Jhoke , Bulrri and Dita Wah circles.
3. The inferior variety Triton was dominant in all the circles followed by an inferior variety SPF-238. The variety composition varied between the circles.
4. Only one bag DAP fertilizer was applied on an average against the recommended doze of 2 bags per acres. Application of urea fertilizer was satisfactory except Amrra circle.

