

Table 73

EXTENT OF WATER LOGGING AND SALINITY

a: Canal Command-Wise Various Depth to Water table in June, 2010

(000 Hectares)

| Description | Area Under Various Depth to Water table Ranges | | | | | | Total Area |
|--------------|--|---------------|----------------|----------------|----------------|----------------|-----------------|
| | 0-90 cm | 90-150 cm | 150-300 cm | 300-450 cm | 450-600 cm | >600 cm | |
| Punjab | 46.94 | 154.18 | 1107.91 | 1555.49 | 1732.31 | 5367.17 | 9964.00 |
| Sindh | 37.14 | 285.92 | 3781.77 | 1077.25 | 278.92 | 274.90 | 5735.90 |
| KPK | 12.43 | 14.40 | 122.39 | 93.66 | 60.55 | 284.07 | 587.50 |
| Balochistan | 0.00 | 9.64 | 155.51 | 83.88 | 29.89 | 120.18 | 399.10 |
| Total | 96.51 | 464.14 | 5167.58 | 2810.28 | 2101.67 | 6046.32 | 16686.50 |

b: Canal Command-Wise Various Depth to Water table in October, 2010

(000 Hectares)

| Description | Area Under Various Depth to Water table Ranges | | | | | | Total Area |
|--------------|--|----------------|----------------|----------------|----------------|----------------|-----------------|
| | 0-90 cm | 90-150 cm | 150-300 cm | 300-450 cm | 450-600 cm | >600 cm | |
| Punjab | 176.56 | 493.56 | 1482.26 | 1548.31 | 1287.28 | 4976.03 | 9964.00 |
| Sindh | 803.35 | 2267.63 | 1215.83 | 343.07 | 188.03 | 159.26 | 4977.17 * |
| KPK | 6.57 | 18.83 | 119.50 | 105.71 | 57.66 | 279.23 | 587.50 |
| Balochistan | 22.79 | 21.64 | 78.94 | 23.19 | 18.85 | 100.39 | 265.80 * |
| Total | 1009.27 | 2801.66 | 2896.53 | 2020.28 | 1551.82 | 5514.91 | 15794.47 |

* Against total command area of 5735.90 and 399.10 thousand hectares 758.74 and 133.30 thousand hectares are under Sindh & Balochistan respectively could not be surveyed due to inundation by the Super Flood 2010.

c: Province Wise Surface Salinity Status for the Period 2001-2004

| Province | Total Acreage | Salt Free (S1) | Slightly Saline (S2) | Moderately Saline (S3) | Strongly Saline (S4) | Misc. Land Types |
|--------------|----------------------|------------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| Punjab | 24954966 % | 21754266 87 | 913426 4 | 444647 2 | 398757 1 | 1443870 6 |
| Sindh | 14045599 % | 6148594 44 | 2736729 19 | 1339110 10 | 2855168 20 | 965998 7 |
| NWFP | 1859105 % | 1632790 88 | 37580 2 | 26920 2 | 7191 * | 154624 8 |
| Balochistan | 862214 % | 382690 44 | 252788 29 | 108699 13 | 90638 11 | 27399 3 |
| Total | 41721884 % | 29918340 73 | 3940523 10 | 1919376 4 | 3351754 7 | 2591891 6 |

* :- less than 1%

d: Province Wise time Series Profile Salinity/Sodicity Data for the Period 2001-2004

| Canal Command/ Province | Total Profiles | Profile Salinity | | | | |
|----------------------------|-------------------|---------------------------|--------------------------|--------------------------|-------------------------|----------------------|
| | | NS-NS | S-NS | S-S | NS-S | Misc. |
| Punjab | 17050 % | 11555 68 | 956 6 | 2776 16 | 1763 10 | 0 0 |
| Sindh | 12349 % | 4759 39 | 3680 30 | 3104 25 | 804 6 | 2 0 |
| NWFP | 1277 % | 1072 84 | 115 9 | 71 6 | 19 1 | 0 0 |
| Balochistan | 542 % | 247 46 | 168 31 | 99 18 | 28 5 | 0 0 |
| Total | 31218 % | 17633 57 | 4919 16 | 6050 19 | 2614 8 | 2 0 |

NS-NS = Non Saline- Non Sodic

S-NS = Saline - Non Sodic

S-S = Saline - Sodic

NS-S = Non-Saline- Sodic

Source:- SCARPS Monitoring Organization, WAPDA, Lahore.