

**Study of soil salinity from geological, endorheic and anthropic origin in the Timimoun region (Algeria), and their impacts on soil pollution**

[Water, Air, & Soil Pollution:Journal](#)

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**ANNEX 1**

**Results of soil sample analyses from beko- charouine, performed by (INSID) in Adrar- Algeria**

| Sample                                                                 |                  | 1     | 2     | 3     | 4     | 5    | 6    | 7     |
|------------------------------------------------------------------------|------------------|-------|-------|-------|-------|------|------|-------|
| Code                                                                   |                  | F116  | F117  | F118  | F119  | F120 | F121 | F122  |
| Code de profil /horizon                                                |                  | P1H1  | P1H2  | P1H3  | P2H1  | P2H2 | P2H3 | P2H4  |
|                                                                        | A (%)            | 8.8   | 7.55  | 4.50  | 3.62  | 6.74 | 13   | 8.01  |
|                                                                        | L f (%)          | 1     | 9.42  | 15.44 | 0.89  | 9.73 | 11.3 | 6.85  |
| Granulométrie                                                          | L g (%)          | 3.07  | 9.1   | 10.24 | 2.93  | 15.1 | 7.99 | 9.32  |
|                                                                        | S f (%)          | 74.72 | 28.1  | 29.60 | 84.44 | 48.2 | 51.5 | 31.18 |
|                                                                        | S g (%)          | 12.39 | 45.81 | 40.19 | 8.1   | 20.3 | 16   | 44.6  |
| PH <sub>eau</sub> (1/2,5)                                              |                  | 8.02  | 7.94  | 7.95  | 8.08  | 7.84 | 8.02 | 8     |
| PH <sub>KCl</sub> (1/2,5)                                              |                  | 8.02  | 7.8   | 7.8   | 7.99  | 7.61 | 7.87 | 7.79  |
| Conductivité électrique 1/5 (ms/cm)                                    |                  | 0.92  | 3.6   | 3.28  | 0.74  | 2.47 | 1.22 | 2.7   |
| Calcaire total(%)                                                      |                  | 5.38  | .93   | 24.12 | 3.83  | 11.8 | 7.89 | 12.93 |
| Calcaire actif (%)                                                     |                  | 1.25  | 4.25  | 2.25  | 0     | 3.25 | 2.75 | 4.75  |
| Capacité d'échange cationique(méq/100g)                                |                  | 4.33  | 6.23  | 5.49  | 2.23  | 2.23 | 4.75 | 3.51  |
| Cations solubles                                                       | Ca <sup>++</sup> | 0.96  | 1.33  | 1.78  | 1.53  | 3.14 | 3.06 | 6.28  |
| (méq/100g)                                                             | Mg <sup>++</sup> | 0.7   | 3.2   | 3.4   | 0.8   | 2.07 | 3.6  | 3.5   |
|                                                                        | Na <sup>+</sup>  | 4.13  | 2.44  | 3.58  | 0.44  | 3.6  | 0.22 | 2.76  |
|                                                                        | K <sup>+</sup>   | 0.5   | 1.2   | 2.34  | 0.47  | 0.46 | 0.45 | 0.49  |
| Sulfate(méq/100g)                                                      |                  | 2.01  | 16.11 | 15.3  | 1.79  | 16.3 | 2.16 | 11.12 |
| Bicarbonate (meq/100g)                                                 |                  | 0.02  | 0.02  | 0.02  | 0.015 | 0.02 | 0.02 | 0.01  |
| Carbonate (meq/100g)                                                   |                  | 0     | 0     | 0     | 0     | 0    | 0    | 0     |
| Chlorure(méq/100g)                                                     |                  | 2.5   | 2.5   | 3.5   | 1     | 2    | 2.5  | 1.5   |
| Phosphore assimilable (P <sub>2</sub> O <sub>4</sub> ppm) joret-hebert |                  | 85.82 | 70.83 | 37.49 | 70.83 | 83.3 | 129  | 45.83 |

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| Sample                    | 8     | 9     | 10    | 11   | 12   | 13    |
|---------------------------|-------|-------|-------|------|------|-------|
| Code                      | F123  | F124  | F125  | F1   | F127 | F128  |
| Code de profil /horizon   | P3H1  | P3H2  | P3H4  | P4H1 | P4H2 | P4H3  |
| pH <sub>eau</sub> (1/2.5) | 8.27  | 8.3   | 8.28  | 8.38 | 8.28 | 8.3   |
| pH <sub>kcl</sub> (1/2.5) | 8.18  | 8.28  | 8.22  | 8.28 | 8.21 | 8.17  |
| CE (1/5)(ms/cm)           | 11.02 | 13.14 | 11.21 | 3.78 | 7.75 | 10.97 |

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| Sample                    | 14   | 15   | 16   | 17   | 18    | 19    | 20   |
|---------------------------|------|------|------|------|-------|-------|------|
| Code                      | F129 | F130 | F131 | F132 | F133  | F134  | F135 |
| Code de profil /horizon   | P5H1 | P5H2 | P5H3 | P6H1 | P6H2  | P6H3  | P6H4 |
| pH <sub>eau</sub> (1/2.5) | 8.47 | 8.63 | 8.57 | 8.69 | 8.78  | 8.79  | 8.45 |
| pH <sub>kcl</sub> (1/2.5) | 8.47 | 8.57 | 8.51 | 8.47 | 8.66  | 8.74  | 8.14 |
| CE (1/5)(ms/cm)           | 13.6 | 13.4 | 13.2 | 13.2 | 13.12 | 11.52 | 5.4  |

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