**Schedule table1**. The average of soil P fractions (mg kg-1) in four thinning treatments across seasons.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth/cm | thinning | Labile P | | |  | Mod.labile P | | |  | Non-labile P | | |  | Total | | |
| R-Pi | Bic-Pi | Bic-Po |  | OH-Pi | OH-Po | Dil.HCl-Pi |  | Conc.HCl-Pi | Conc.HCl-Po | Res-Pi |  | ∑Pi | ∑Po | ∑Pt |
| 0-10 | CK | 8.7±0.6a | 6.7±0.6a | 13.3±1.9a |  | 10.6±0.9a | 95.4±8.7a | 43.1±2.9a |  | 42.1±3.4a | 90.4±3.7a | 112.8±11.2a |  | 223.8±14.2a | 199.2±11.2a | 423.0±23.4a |
|  | LT | 9.3±0.8ab | 6.7±0.7a | 14.4±0.9ab |  | 14.4±1.5ab | 119.7±6.1ab | 52.6±2.7a |  | 42.2±3.7a | 113.6±5.9ab | 133.1±10.9ab |  | 258.3±13.5ab | 239.9±6.4b | 498.2±18.4ab |
|  | MT | 13.0±0.9c | 8.6±1.2a | 18.9±1.2b |  | 16.1±1.5b | 150.7±11.8c | 98.7±3.8c |  | 41.0±4.9a | 127.1±5.4b | 172.7±15.4b |  | 350.1±20.5c | 296.7±15.3c | 646.7±27.4c |
|  | HT | 11.9±0.9bc | 8.5±0.8a | 19.6±1.5b |  | 13.1±1.6ab | 138.4±6.7bc | 77.6±7.3b |  | 42.1±4.4a | 98.5±8.7a | 141.2±11.7ab |  | 294.5±21.4bc | 256.5±11.0bc | 551.0±28.1bc |
| 10-20 | CK | 6.4±0.4a | 5.1±0.3a | 8.9±0.9a |  | 9.2±0.9a | 76.6±8.9a | 34.8±2.6a |  | 33.3±4.7a | 88.3±3.2a | 118.9±9.1a |  | 207.6±12.8a | 173.8±7.9a | 381.4±20.0a |
|  | LT | 6.4±0.4a | 5.0±0.5a | 11.4±0.8ab |  | 8.7±0.5a | 98.5±4.0ab | 46.0±2.0b |  | 36.2±4.9a | 93.4±6.4a | 142.7±14.0a |  | 245.0±14.2ab | 203.3±8.4ab | 448.3±18.8ab |
|  | MT | 11.2±2.0b | 6.2±0.8a | 15.7±1.4b |  | 12.7±1.7a | 117.4±12.2b | 91.6±3.9d |  | 38.3±6.4a | 126.5±5.9b | 152.2±6.9a |  | 312.2±12.8c | 259.6±14.7c | 571.8±19.6c |
|  | HT | 8.1±0.6ab | 6.2±0.8a | 13.7±1.1b |  | 13.3±1.7a | 113.2±7.7b | 64.8±4.8c |  | 41.2±6.9a | 98.4±6.5a | 147.9±8.7a |  | 281.3±14.8bc | 225.4±10.3bc | 506.7±22.7bc |
| 20-30 | CK | 5.3±0.5a | 3.8±0.5a | 8.2±0.9a |  | 6.4±1.2a | 71.6±11.3a | 29.4±1.9a |  | 21.2±1.4a | 102.5±6.2a | 121.0±9.9a |  | 187.2±12.5a | 182.3±13.4ab | 369.5±23.1a |
|  | LT | 5.1±0.5a | 4.5±0.5a | 9.3±0.7ab |  | 6.0±0.9a | 76.1±7.2a | 37.6±1.3ab |  | 26.9±5.6a | 87.6±7.4a | 135.7±12.7a |  | 215.7±12.7a | 173.0±9.3a | 388.7±14.2a |
|  | MT | 7.0±0.5a | 4.7±0.7a | 13.6±1.1b |  | 9.8±1.7a | 99.4±12.9a | 77.2±1.8c |  | 31.9±6.7a | 113.7±6.9a | 145.0±6.7a |  | 275.7±12.3b | 226.7±14.1b | 502.4±19.6b |
|  | HT | 6.2±0.6a | 4.8±0.7a | 10.9±1.1ab |  | 9.0±1.3a | 76.5±12.7a | 47.9±5.9b |  | 28.9±4.8a | 91.4±9.0a | 145.6±12.2a |  | 242.3±19.4ab | 178.8±11.1a | 421.2±26.5ab |

Abbreviations see Tables 1. Date (mean ± SE, n = 12) followed by different letters at the same depth differ significantly according to Tukey's test (*P* < 0.05).

**Schedule table 2**. The average of soil P fractions (mg kg-1) in four sampling times irrespective of the treatments.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Depth/cm | Sampling time | Labile P | | |  | Mod.labile P | | |  | Non-labile P | | |  | Total | | |
| R-Pi | Bic-Pi | Bic-Po |  | OH-Pi | OH-Po | Dil.HCl-Pi |  | Conc.HCl-Pi | Conc.HCl-Po | Res-Pi |  | ∑Pi | ∑Po | ∑Pt |
| 0-10 | April | 9.1±1.1a | 9.1±0.9b | 14.0±2.2a |  | 12.7±1.1b | 114.3±11.8a | 57.6±7.1a |  | 40.3±2.1b | 101.8±7.4ab | 100.6±12.2a |  | 229.4±19.6a | 230.1±17.5a | 459.5±35.6a |
|  | June | 11.9±0.8a | 8.8±0.8b | 18.1±0.7ab |  | 8.2±0.5a | 113.5±10.9a | 59.2±7.6a |  | 31.9±0.4a | 95±4.9a | 131.8±10.3ab |  | 251.7±16.4ab | 226.7±11.4a | 478.3±24.0ab |
|  | August | 11.2±0.6a | 8.7±0.3b | 14.5±1.5ab |  | 19.1±1.2c | 138.7±5.5a | 75.7±6.9a |  | 31.7±0.3a | 126.7±7.3b | 153.5±4.9b |  | 299.9±7.5bc | 280.0±11.1b | 579.9±16.1bc |
|  | October | 10.6±1.0a | 4.0±0.4a | 19.6±1.1b |  | 14.2±1.0b | 129.9±11.7a | 79.5±8.0a |  | 63.5±1.6c | 106.0±6.4ab | 173.9±15.5b |  | 345.7±24.8c | 255.5±15.4ab | 601.3±36.8c |
| 10-20 | April | 6.8±0.7a | 5.8±0.4b | 12.1±2.1a |  | 10.7±0.9b | 104.7±8.3b | 48.3±5.8a |  | 33.9±2.8b | 87.8±7.3a | 110.8±11.6a |  | 216.2±16.1a | 204.7±16.0ab | 420.9±29.8a |
|  | June | 10.1±2.0a | 7.2±0.6b | 13.7±0.4a |  | 5.8±0.3a | 71.6±7.5a | 58.3±7.5a |  | 23.6±1.0a | 105.0±5.6ab | 147.7±12.3b |  | 252.7±16.7ab | 190.3±9.9a | 443.0±22.8ab |
|  | August | 8.2±0.5a | 6.8±0.4b | 11.6±1.3a |  | 15.5±1.5c | 109.3±6.9b | 67.0±6.9a |  | 25.7±1.2ab | 118.8±7.2b | 145.6±5.7b |  | 268.9±8.4b | 239.7±9.7b | 508.6±16.6ab |
|  | October | 6.8±0.7a | 2.7±0.3a | 12.3±0.9a |  | 11.8±0.8bc | 120.2±10.2b | 63.6±7.9a |  | 65.8±4.8c | 94.9±4.8ab | 157.6±5.6b |  | 308.6±17.3b | 227.4±15.2ab | 535.7±31.4b |
| 20-30 | April | 5.5±0.4ab | 4.3±0.3b | 9.5±1.5a |  | 7.5±1.6a | 98.3±9.9b | 39.9±5.5a |  | 22.0±1.3b | 85.1±10.2a | 113.1±12.6a |  | 192.2±16.0a | 192.8±18.9a | 385.1±32.4a |
|  | June | 7.3±0.5b | 5.5±0.6b | 12.0±0.8a |  | 4.1±0.3a | 44.5±6.9a | 43.9±6.9a |  | 16.1±1.2a | 112.3±4.2b | 132.7±12.7ab |  | 209.6±15.2a | 168.7±5.9a | 378.3±19.9a |
|  | August | 6.3±0.4b | 5.8±0.5b | 11.2±1.1a |  | 12.3±0.4b | 75.9±10.8b | 52.0±6.3a |  | 19.1±1.0ab | 113.1±3.9b | 141.6±4.8ab |  | 237.0±8.5ab | 200.1±11.9a | 437.2±14.8ab |
|  | October | 4.6±0.7a | 2.2±0.2a | 9.5±0.6a |  | 7.5±1.3a | 104.9±9.3b | 56.3±5.5a |  | 51.7±5.3c | 84.7±7.1a | 159.9±6.5b |  | 282.2±16.0b | 199.2±12.6a | 481.3±21.4b |

Abbreviations see Tables 1. Date (mean ± SE, n = 12) followed by different letters at the same depth differ significantly according to Tukey's test (*P* < 0.05).