

ตารางผนวกที่ 60 สมบัติทางเคมีและปริมาณธาตุอาหารของชุดดินกำแพงแสนซึ่งได้รับฝนจำลองที่เกิดจากออกไซด์ของไนโตรเจนที่เวลาต่าง ๆ

| DAT | Treatment | pH | EC (dS m ⁻¹) | OM (%) | NH ₄ ⁺ (mg kg ⁻¹) | NO ₃ ⁻ (mg kg ⁻¹) | Total N (%) | P ₂ O ₅ (mg kg ⁻¹) | K ₂ O (mg kg ⁻¹) | Total K (%) | _N K _d | _P K _d | _K K _d |
|-----|-----------|---------|-----------------------------|-----------|--|--|----------------|---|--|----------------|-----------------------------|-----------------------------|-----------------------------|
| 15 | ฝนควบคุม | 6.27 c | 0.45 a | 0.88 | 10.23 b | 8.28 a | 0.043 a | 74.32 a | 0.65 b | 0.214 | 0.0410 | 0.0218 | 0.0003 a |
| | ฝน pH 5.0 | 6.48 b | 0.40 b | 1.05 | 14.03 a | 0.43 b | 0.036 b | 61.89 a | 0.80 a | 0.213 | 0.0401 | 0.0228 | 0.0004 a |
| | ฝน pH 4.0 | 7.18 a | 0.35 b | 0.93 | 14.90 a | 1.31 b | 0.042 a | 46.11 b | 0.38 c | 0.225 | 0.0387 | 0.0168 | 0.0002 b |
| | ฝน pH 3.0 | 7.12 a | 0.26 c | 0.97 | 11.20 b | 1.28 b | 0.037 b | 61.05 a | 0.66 b | 0.230 | 0.0343 | 0.0316 | 0.0003 ab |
| | P-value | 0.000 | 0.000 | 0.194 | 0.000 | 0.003 | 0.011 | 0.008 | 0.000 | 0.891 | 0.373 | 0.349 | 0.008 |
| 22 | ฝนควบคุม | 6.99 c | 0.29 c | 1.02 | 7.97 b | 1.78 | 0.043 a | 71.49 a | 0.53 | 0.250 a | 0.0228 b | 0.0228 a | 0.0002 c |
| | ฝน pH 5.0 | 7.14 b | 0.29 c | 0.99 | 13.72 a | 0.10 | 0.037 c | 53.94 c | 0.53 | 0.223 b | 0.0402 a | 0.0188 b | 0.0002 b |
| | ฝน pH 4.0 | 7.11 b | 0.47 a | 1.05 | 10.27 b | 1.86 | 0.038 bc | 62.54 b | 0.55 | 0.197 c | 0.0317 ab | 0.0201 ab | 0.0003 a |
| | ฝน pH 3.0 | 7.41 a | 0.36 b | 1.05 | 8.91 b | 2.07 | 0.041 ab | 52.97 c | 0.55 | 0.191 c | 0.0273 b | 0.0171 b | 0.0003 a |
| | P-value | 0.000 | 0.000 | 0.838 | 0.001 | 0.260 | 0.024 | 0.000 | 0.086 | 0.000 | 0.015 | 0.031 | 0.000 |
| 29 | ฝนควบคุม | 7.22 | 0.30 | 0.46 | 7.08 c | 0.87 b | 0.043 b | 58.61 b | 0.50 b | 0.255 a | 0.0185 b | 0.0236 a | 0.0002 c |
| | ฝน pH 5.0 | 7.22 | 0.31 | 0.55 | 11.24 a | 0.52 b | 0.046 ab | 41.04 c | 0.50 b | 0.219 b | 0.0257 a | 0.0155 b | 0.0002 bc |
| | ฝน pH 4.0 | 7.24 | 0.29 | 0.62 | 9.38 b | 0.52 b | 0.042 b | 66.99 a | 0.52 b | 0.224 b | 0.0234 a | 0.0232 a | 0.0002 b |
| | ฝน pH 3.0 | 7.29 | 0.31 | 0.23 | 6.17 d | 1.69 a | 0.047 a | 44.88 c | 0.73 a | 0.214 b | 0.0170 b | 0.0181 b | 0.0003 a |
| | P-value | 0.476 | 0.778 | 0.280 | 0.000 | 0.000 | 0.037 | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.000 |
| 36 | ฝนควบคุม | 7.29 a | 0.30 a | 0.98 | 6.63 c | 1.83 | 0.055 | 61.80 ab | 1.52 a | 0.244 a | 0.0154 b | 0.0150 | 0.0006 a |
| | ฝน pH 5.0 | 7.22 ab | 0.24 b | 0.96 | 9.65 a | 1.71 | 0.048 | 52.51 bc | 0.51 b | 0.256 a | 0.0250 a | 0.0138 | 0.0002 b |
| | ฝน pH 4.0 | 7.16 b | 0.25 b | 1.08 | 7.57 c | 0.98 | 0.052 | 69.68 a | 0.46 b | 0.218 b | 0.0166 b | 0.0155 | 0.0002 b |
| | ฝน pH 3.0 | 7.32 a | 0.27 ab | 1.02 | 8.64 b | 1.28 | 0.041 | 48.25 c | 0.46 b | 0.219 b | 0.0240 a | 0.0120 | 0.0002 b |
| | P-value | 0.044 | 0.029 | 0.118 | 0.000 | 0.406 | 0.124 | 0.004 | 0.000 | 0.000 | 0.001 | 0.298 | 0.000 |
| 43 | ฝนควบคุม | 6.15 c | 0.25 | 0.43 ab | 6.49 | 0.37 c | 0.035 b | 59.63 | 0.61 b | 0.210 c | 0.0199 | 0.0179 | 0.0003 c |
| | ฝน pH 5.0 | 6.61 b | 0.29 | 0.78 a | 9.48 | 0.88 b | 0.048 a | 50.33 | 0.69 ab | 0.204 c | 0.0232 | 0.0157 | 0.0003 ab |
| | ฝน pH 4.0 | 6.92 a | 0.25 | 0.33 b | 6.65 | 1.43 a | 0.038 b | 57.85 | 0.73 a | 0.238 a | 0.0210 | 0.0175 | 0.0003 bc |
| | ฝน pH 3.0 | 7.00 a | 0.27 | 0.74 a | 9.74 | 0.18 c | 0.040 b | 52.73 | 0.79 a | 0.223 b | 0.0251 | 0.0160 | 0.0004 a |
| | P-value | 0.000 | 0.075 | 0.039 | 0.071 | 0.000 | 0.010 | 0.128 | 0.021 | 0.000 | 0.620 | 0.274 | 0.018 |

ตารางผนวกที่ 61 สมบัติทางเคมีและปริมาณธาตุอาหารของชุดดินกำแพงแสนซึ่งได้รับฝนจำลองที่เกิดจากออกไซด์ของไนโตรเจนที่ระดับต่างๆ

| Treatment | DAT | pH | EC (dS m ⁻¹) | OM (%) | NH ₄ ⁺ (mg kg ⁻¹) | NO ₃ ⁻ (mg kg ⁻¹) | Total N (%) | P ₂ O ₅ (mg kg ⁻¹) | K ₂ O (mg kg ⁻¹) | Total K (%) | _N K _d | _p K _d | _K K _d |
|-----------|-------|---------|-----------------------------|-----------|--|--|----------------|---|--|----------------|-----------------------------|-----------------------------|-----------------------------|
| ฝนควบคุม | 15 | 6.27 c | 0.45 a | 0.88 a | 10.23 a | 8.28 a | 0.043 b | 74.32 a | 0.65 b | 0.214 b | 0.0410 a | 0.0218 ab | 0.0003 b |
| | 22 | 6.99 b | 0.29 b | 1.02 a | 7.97 b | 1.78 b | 0.043 b | 71.49 a | 0.53 b | 0.250 a | 0.0228 b | 0.0228 ab | 0.0002 bc |
| | 29 | 7.22 a | 0.30 b | 0.46 b | 7.08 bc | 0.87 b | 0.043 b | 58.61 b | 0.50 b | 0.255 a | 0.0185 bc | 0.0236 a | 0.0002 c |
| | 36 | 7.29 a | 0.30 b | 0.98 a | 6.63 c | 1.83 b | 0.055 a | 61.80 b | 1.52 a | 0.244 a | 0.0154 c | 0.0150 c | 0.0003 a |
| | 43 | 6.15 c | 0.25 b | 0.43 b | 6.49 c | 0.37 b | 0.035 b | 59.63 b | 0.61 b | 0.210 b | 0.0199 bc | 0.0179 bc | 0.0003 bc |
| P-value | 0.000 | 0.000 | 0.000 | 0.000 | 0.001 | 0.003 | 0.004 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 | 0.000 |
| ฝน pH 5.0 | 15 | 6.48 d | 0.40 a | 1.05 a | 14.03 a | 0.43 b | 0.036 b | 61.89 a | 0.80 a | 0.213 ab | 0.0401 a | 0.0228 a | 0.0004 a |
| | 22 | 7.14 b | 0.29 b | 0.99 a | 13.72 a | 0.99 b | 0.037 b | 53.94 ab | 0.53 c | 0.223 ab | 0.0402 a | 0.0188 ab | 0.0002 bc |
| | 29 | 7.22 a | 0.31 b | 0.55 b | 11.24 b | 0.52 b | 0.046 ab | 41.04 c | 0.50 c | 0.219 ab | 0.0257 b | 0.0155 a | 0.0002 c |
| | 36 | 7.22 a | 0.24 c | 0.96 a | 9.65 b | 1.71 a | 0.048 a | 52.51 ab | 0.51 c | 0.256 a | 0.0250 b | 0.0138 a | 0.0002 c |
| | 43 | 6.61 c | 0.29 bc | 0.78 ab | 9.48 b | 0.88 b | 0.048 a | 50.33 bc | 0.69 b | 0.204 b | 0.0232 b | 0.0157 a | 0.0003 ab |
| P-value | 0.000 | 0.000 | 0.017 | 0.000 | 0.004 | 0.021 | 0.003 | 0.000 | 0.170 | 0.001 | 0.040 | 0.000 | |
| ฝน pH 4.0 | 15 | 7.18 a | 0.35 b | 0.93 a | 14.90 a | 1.31 b | 0.042 b | 46.11 b | 0.38 c | 0.225 a | 0.0387 a | 0.0168 c | 0.0002 c |
| | 22 | 7.11 ab | 0.47 a | 1.05 a | 10.27 b | 1.86 a | 0.038 c | 62.54 a | 0.55 b | 0.197 b | 0.0317 b | 0.0201 ab | 0.0003 ab |
| | 29 | 7.24 a | 0.29 c | 0.62 b | 9.38 b | 0.52 c | 0.042 b | 66.99 a | 0.52 b | 0.224 a | 0.0234 c | 0.0232 a | 0.0002 bc |
| | 36 | 7.16 a | 0.25 d | 1.08 a | 7.57 c | 0.98 bc | 0.052 a | 69.68 a | 0.46 bc | 0.218 a | 0.0166 d | 0.0155 c | 0.0002 c |
| | 43 | 6.92 b | 0.25 d | 0.33 c | 6.65 c | 1.43 ab | 0.038 c | 57.85 ab | 0.73 a | 0.238 a | 0.0210 c | 0.0175 bc | 0.0003 a |
| P-value | 0.044 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.004 | 0.000 | 0.005 | 0.000 | 0.000 | 0.000 | |
| ฝน pH 3.0 | 15 | 7.12 c | 0.26 b | 0.97 a | 11.20 a | 1.28 ab | 0.037 c | 61.05 a | 0.66 b | 0.230 a | 0.0343 a | 0.0316 a | 0.0003 b |
| | 22 | 7.41 a | 0.36 a | 1.05 a | 8.91 ab | 2.07 a | 0.041 b | 52.97 b | 0.55 c | 0.191 b | 0.0273 ab | 0.0171 ab | 0.0003 b |
| | 29 | 7.29 b | 0.31 a | 0.23 c | 6.17 b | 1.69 a | 0.047 a | 44.88 c | 0.73 ab | 0.214 b | 0.0170 c | 0.0181 ab | 0.0003 a |
| | 36 | 7.32 ab | 0.27 b | 1.02 a | 8.64 ab | 1.28 ab | 0.041 b | 48.25 bc | 0.46 d | 0.219 b | 0.0240 bc | 0.0121 b | 0.0002 c |
| | 43 | 7.00 d | 0.27 b | 0.74 b | 9.74 a | 0.18 b | 0.040 bc | 52.73 b | 0.79 a | 0.223 b | 0.0251 abc | 0.0160 b | 0.0004 a |
| P-value | 0.000 | 0.001 | 0.000 | 0.014 | 0.039 | 0.000 | 0.001 | 0.000 | 0.000 | 0.011 | 0.077 | 0.000 | |