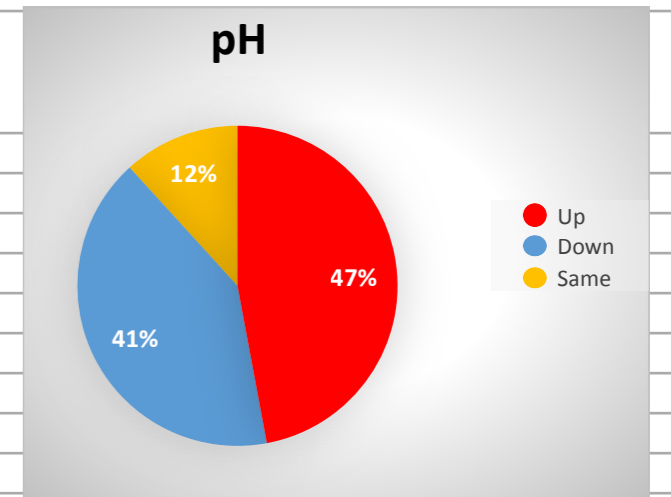
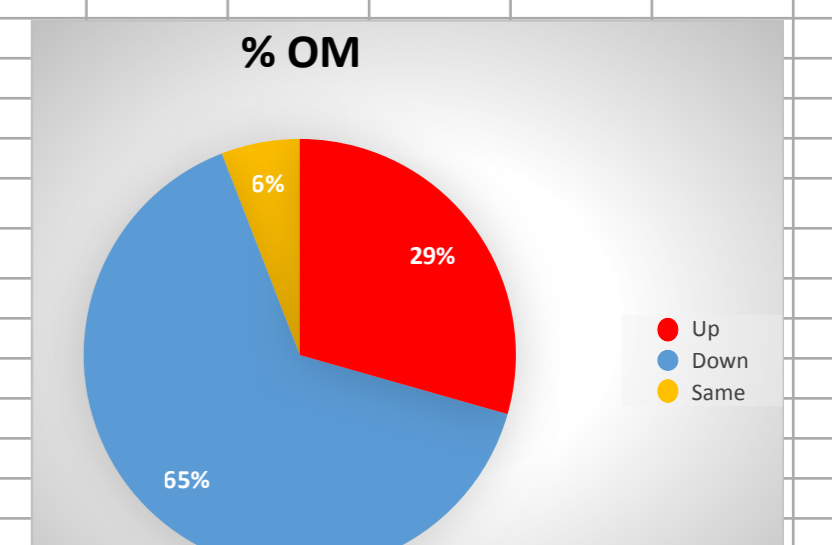


| Farmer            | Parcel | Soil Analysis | Texture | pH  | % OM | Phosphate (ppm) | Potassium (ppm) | Limestone (%) | Total Nitrogen (%) | Total microorg. (u.f.c/g) |
|-------------------|--------|---------------|---------|-----|------|-----------------|-----------------|---------------|--------------------|---------------------------|
| António Maximiano | A      | Before        | Thin    | 6.9 | 1.1  | 243             | 171             | 0.0           | 0.052              | 1,4×10 <sup>7</sup>       |
|                   |        | After         | Gross   | 6.3 | 0.7  | 347             | 117             | 0.0           | 0.053              | 5,1×10 <sup>7</sup>       |
| Coop Montargil    | B      | Before        | Gross   | 5.5 | 0.7  | 91              | 138             | 0.0           | 0.048              | 3,9×10 <sup>7</sup>       |
|                   |        | After         | Gross   | 5.7 | 0.9  | 49              | 67              | 0.0           | 0.048              | 5,2×10 <sup>6</sup>       |
| Estratégia Verde  | C      | Before        | Thin    | 7.9 | 2.7  | 1034            | 1178            | 3.5           | 0.177              | 3,6×10 <sup>7</sup>       |
|                   |        | After         | Thin    | 8.3 | 2.1  | 370             | 466             | 48.1          | 0.171              | 3,9×10 <sup>7</sup>       |
| Feijão e Filho    | D      | Before        | Thin    | 6.4 | 1.0  | 83              | 176             | 0.0           | 0.065              | 1,4×10 <sup>7</sup>       |
|                   |        | After         | Gross   | 5.9 | 0.8  | 117             | 85              | 0.0           | 0.062              | 2,2×10 <sup>7</sup>       |
| Hortifarm         | E      | Before        | Thin    | 6.3 | 1.4  | 200             | 146             | 0.0           | 0.091              | 5,0×10 <sup>6</sup>       |
|                   |        | After         | Thin    | 6.2 | 1.4  | 177             | 114             | 0.0           | 0.095              | 2,0×10 <sup>10</sup>      |
| João Ferreira     | F      | Before        | Gross   | 6.5 | 1.1  | 93              | 66              | 0.0           | 0.059              | 1,0×10 <sup>7</sup>       |
|                   |        | After         | Gross   | 6.6 | 0.8  | 72              | 45              | 0.0           | 0.052              | 2,8×10 <sup>10</sup>      |
| José Artibeiro    | G      | Before        | Thin    | 7.9 | 1.4  | 190             | 254             | 0.5           | 0.095              | 9,7×10 <sup>6</sup>       |
|                   |        | After         | Thin    | 7.7 | 1.5  | 257             | 382             | 0.5           | 0.102              | 8,5×10 <sup>7</sup>       |
| José Bairrão      | H      | Before        | Gross   | 6.6 | 1.3  | 266             | 274             | 0.0           | 0.088              | 4,0×10 <sup>7</sup>       |
|                   |        | After         | Gross   | 6.7 | 1.6  | 261             | 211             | 0.0           | 0.109              | 5,2×10 <sup>7</sup>       |
| Jung Santiago     | I      | Before        | Gross   | 7.1 | 1.0  | 202             | 138             | 0.0           | 0.045              | 5,5×10 <sup>6</sup>       |
|                   |        | After         | Gross   | 6.7 | 0.6  | 262             | 90              | 0.0           | 0.041              | 5,0×10 <sup>7</sup>       |
| Manuel Coscurão 1 | J      | Before        | Gross   | 6.4 | 0.7  | 377             | 114             | 0.0           | 0.048              | 4,1×10 <sup>6</sup>       |
|                   |        | After         | Gross   | 6.3 | 0.9  | 710             | 53              | 0.0           | 0.062              | 2,7×10 <sup>6</sup>       |
| Manuel Coscurão 2 | K      | Before        | Thin    | 6.1 | 1.3  | 98              | 98              | 0.0           | 0.092              | 1,1×10 <sup>7</sup>       |
|                   |        | After         | Thin    | 6.1 | 1.4  | 132             | 109             | 0.0           | 0.099              | 4,6×10 <sup>7</sup>       |
| Maria Gabriela    | L      | Before        | Thin    | 7.8 | 2.5  | 53              | 209             | 19            | 0.139              | 1,1×10 <sup>7</sup>       |
|                   |        | After         | Thin    | 7.8 | 2    | 53              | 113             | 9.1           | 0.108              | 3,9×10 <sup>7</sup>       |
| Nuno Raposo       | M      | Before        | Thin    | 7.5 | 1.2  | 119             | 119             | 0.5           | 0.086              | 9,4×10 <sup>7</sup>       |
|                   |        | After         | Thin    | 7.8 | 1.1  | 82              | 79              | 0.5           | 0.108              | 6,0×10 <sup>9</sup>       |
| Suporte Agrícola  | N      | Before        | Thin    | 7.6 | 2.4  | 361             | 429             | 0.0           | 0.141              | 1,7×10 <sup>9</sup>       |
|                   |        | After         | Thin    | 7.9 | 2.1  | 325             | 395             | 0.5           | 0.134              | 6,4×10 <sup>6</sup>       |
| Torriba_Mauricio  | O      | Before        | Gross   | 6.8 | 1.2  | 311             | 88              | 0.0           | 0.052              | 1,1×10 <sup>6</sup>       |
|                   |        | After         | Gross   | 6.6 | 0.9  | 358             | 34              | 0.0           | 0.050              | 5,1×10 <sup>7</sup>       |
| Turpancas         | P      | Before        | Thin    | 7.9 | 2.6  | 268             | 619             | 0.5           | 0.141              | 1,6×10 <sup>8</sup>       |
|                   |        | After         | Thin    | 8.5 | 2.4  | 348             | 610             | 0.5           | 0.144              | 5,9×10 <sup>6</sup>       |
| Vitor Henriques   | Q      | Before        | Thin    | 7.9 | 3.1  | 109             | 418             | 46.8          | 0.206              | 8,1×10 <sup>6</sup>       |
|                   |        | After         | Thin    | 8.1 | 1.6  | 158             | 162             | 63.7          | 0.130              | 4,1×10 <sup>8</sup>       |

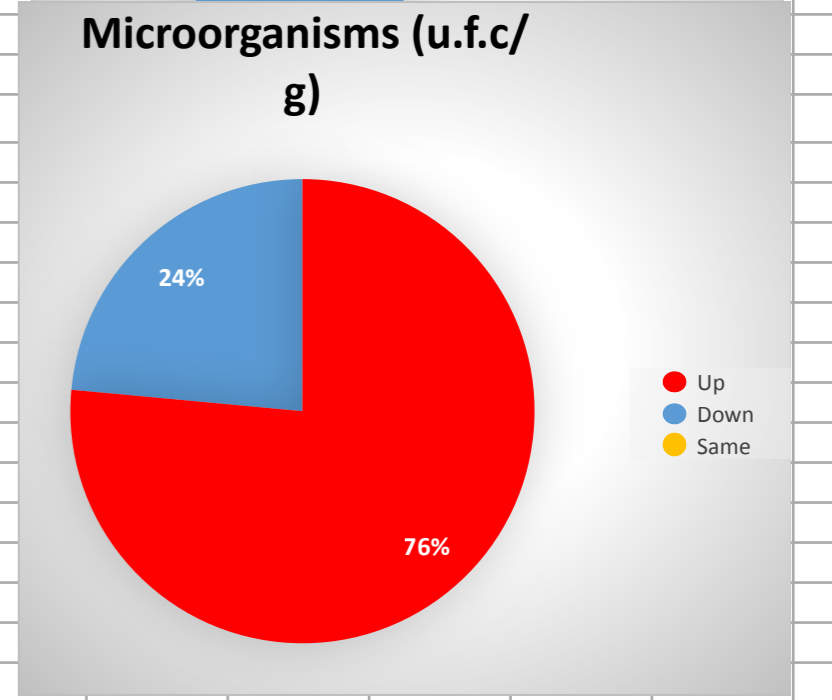
| pH     | Up           | Down | Same |
|--------|--------------|------|------|
| Parcel | B            | A    | K    |
|        | C            | D    | L    |
|        | F            | E    |      |
|        | H            | G    |      |
|        | M            | I    |      |
|        | N            | J    |      |
|        | P            | O    |      |
|        | Q            |      |      |
|        | <b>Total</b> | 8    | 7    |



| % OM         | Up | Down | Same |
|--------------|----|------|------|
| Parcel       | B  | A    | E    |
|              | G  | C    |      |
|              | H  | D    |      |
|              | J  | F    |      |
|              | K  | I    |      |
|              |    | L    |      |
|              |    | M    |      |
|              |    | N    |      |
|              |    | O    |      |
| <b>Total</b> | 5  | 11   | 1    |

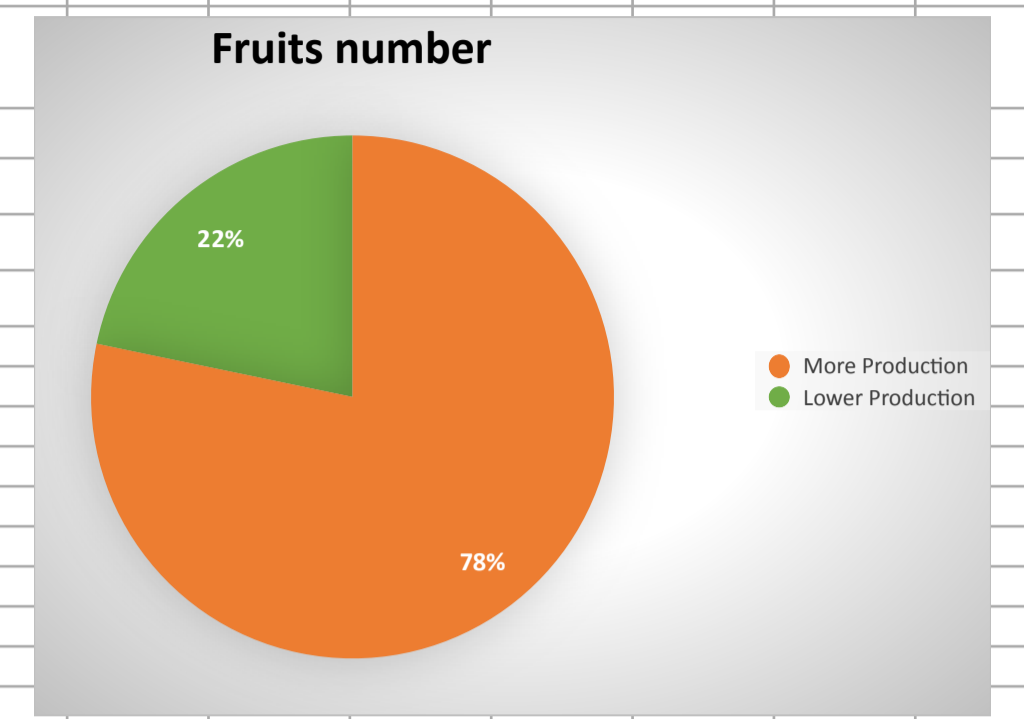


| Microorganisms (u.f.c/g) | Up | Down | Same |
|--------------------------|----|------|------|
| Parcel                   | A  | B    |      |
|                          | C  | J    |      |
|                          | D  | N    |      |
|                          | E  | P    |      |
|                          | F  |      |      |
|                          | G  |      |      |
|                          | H  |      |      |
|                          | I  |      |      |
|                          | K  |      |      |
|                          | L  |      |      |
|                          | M  |      |      |
|                          | O  |      |      |
|                          | Q  |      |      |
| <b>Total</b>             | 13 | 4    | 0    |

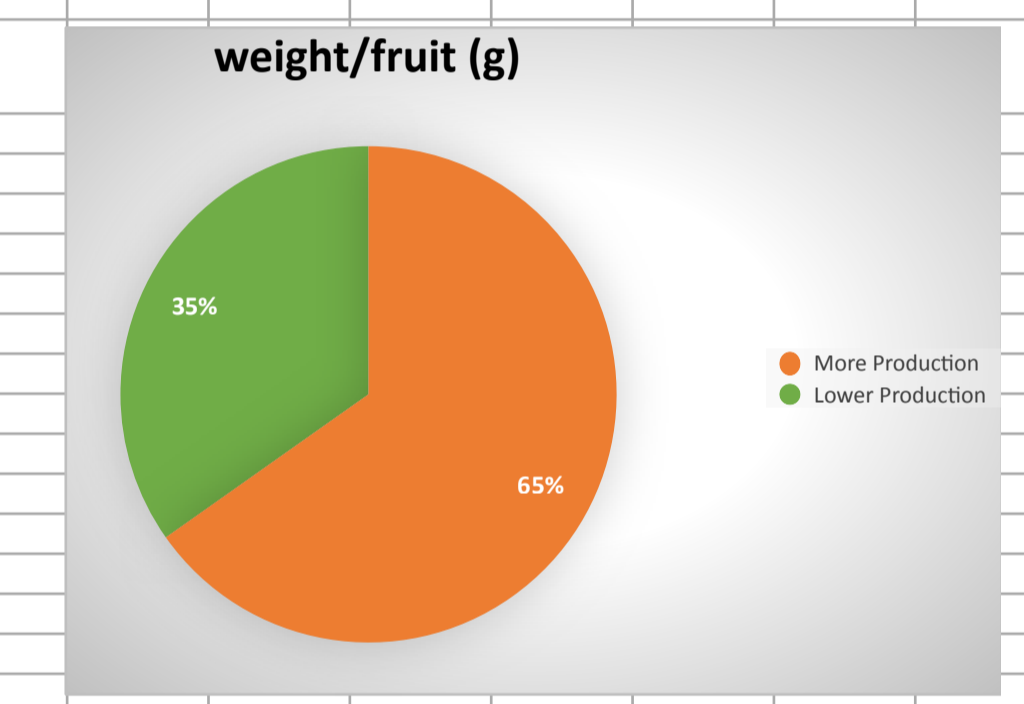


| Farmer            | Parcel |         | 30 Plants     |                  |                  | Total production (ton/há) |
|-------------------|--------|---------|---------------|------------------|------------------|---------------------------|
|                   |        |         | Fruits number | Total weight (g) | weight/fruit (g) |                           |
| António Maximiano | A      | Control | 335 >         | 74164 >          | 221.39 >         | 67.98 >                   |
|                   |        | Test    | 367           | 82457            | 224.68           | 75.59                     |
| Coop Montargil    | B1     | Control | 308           | 61278            | 198.95           | 67.41                     |
|                   |        | Test1   | 330 >         | 74813 >          | 226.71 >         | 82.29 >                   |
| Estratégia Verde  | C      | Control | 95 >          | 36925 >          | 388.68 <         | 33.27 >                   |
|                   |        | Test    | 123           | 44076            | 358.34           | 40.40                     |
| Feijão e Filho    | D      | Control | 165 >         | 43028 >          | 260.78 >         | 45.90 >                   |
|                   |        | Test    | 183           | 49816            | 272.22           | 53.14                     |
| Hortifarm         | E1     | Control | 168 <         | 43129 <          | 256.72 >         | 39.53 <                   |
|                   |        | Test    | 138           | 40648            | 294.55           | 37.26                     |
| João Ferreira     | F      | Control | 210 >         | 52283 >          | 248.97 >         | 47.93 >                   |
|                   |        | Test    | 218           | 60711            | 278.49           | 55.65                     |
| José Artilheiro   | G      | Control | 234 >         | 39693 >          | 169.63 >         | 43.66 >                   |
|                   |        | Test    | 261           | 52118            | 199.69           | 57.33                     |
| José Bairrão      | H      | Control | 204 >         | 49242 >          | 241.38 <         | 54.17 >                   |
|                   |        | Test    | 226           | 54499            | 241.15           | 59.95                     |
| Jung Santiago     | I      | Control | 248 >         | 44788 >          | 180.60 >         | 49.27 >                   |
|                   |        | Test    | 262           | 53499            | 204.19           | 58.85                     |
| Manuel Coscurão 1 | J      | Control | 224 >         | 46285 >          | 206.63 >         | 42.43 >                   |
|                   |        | Test    | 275           | 59596            | 216.71           | 54.63                     |
| Manuel Coscurão 2 | K      | Control | 198 >         | 49622 >          | 250.62 >         | 45.49 >                   |
|                   |        | Test    | 201           | 52895            | 263.16           | 48.49                     |
| Maria Gabriela    | L1     | Control | 105 >         | 26108 >          | 248.65 <         | 29.93 <                   |
|                   |        | Test    | 120           | 27412            | 228.43           | 25.13                     |
| Nuno Raposo       | M1     | Control | 246.5 >       | 50845 >          | 206.27 <         | 46.61 >                   |
|                   |        | Test    | 267           | 54107.5          | 202.65           | 49.60                     |
| Suporte Agrícola  | N      | Control | 335 <         | 69188 <          | 206.53 >         | 63.42 <                   |
|                   |        | Test    | 285           | 61837            | 216.97           | 56.68                     |
| Torriba_Mauricio  | O      | Control | 244 >         | 61520 >          | 252.13 >         | 56.39 >                   |
|                   |        | Test    | 263           | 72873            | 277.08           | 66.80                     |
| Turpancas         | P1     | Control | 264.5 <       | 55339.5 <        | 209.22 <         | 50.73 <                   |
|                   |        | Test    | 259           | 54026            | 208.59           | 49.52                     |
| Vitor Henriques   | Q      | Control | 199.5 >       | 41743.5 >        | 209.24 <         | 38.26 >                   |
|                   |        | Test    | 228.5         | 47126.5          | 206.24           | 43.20                     |
| Estratégia Verde  | P2     | Control | 262 <         | 59382 <          | 226.65 <         | 54.43 <                   |
|                   |        | Test    | 174           | 36949            | 212.35           | 33.87                     |
| Hortifarm         | E2     | Control | 341 >         | 58839 >          | 172.55 >         | 64.72 >                   |
|                   |        | Test    | 374           | 65164            | 174.24           | 71.68                     |
| João Ferreira     | F      | Control | 287 >         | 60101 >          | 209.41 >         | 55.09 >                   |
|                   |        | Test    | 308           | 65950            | 214.12           | 60.45                     |
| José Artilheiro   | G      | Control | 176 <         | 33094 >          | 188.03 >         | 30.34 >                   |
|                   |        | Test    | 170           | 34266            | 201.56           | 31.41                     |
| José Bairrão      | H      | Control | 270 >         | 60700 <          | 224.81 <         | 55.64 <                   |
|                   |        | Test    | 308           | 60230            | 195.55           | 55.21                     |

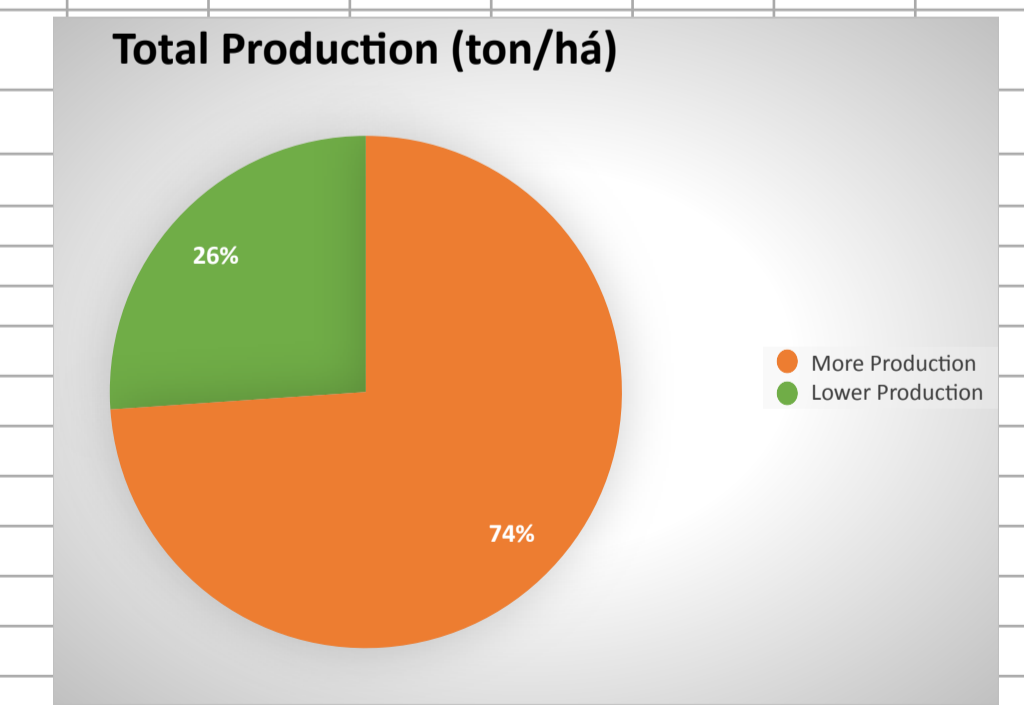
| Fruits number | More Production | Lower Production |
|---------------|-----------------|------------------|
| A             |                 | E1               |
| B1            |                 | L2               |
| B2            |                 | M1               |
| C             |                 | N                |
| D             |                 | P2               |
| E2            |                 |                  |
| F             |                 |                  |
| G             |                 |                  |
| H             |                 |                  |
| I             |                 |                  |
| J             |                 |                  |
| K             |                 |                  |
| L1            |                 |                  |
| L3            |                 |                  |
| M2            |                 |                  |
| O             |                 |                  |
| P1            |                 |                  |
| Q             |                 |                  |
| <b>Total</b>  | <b>18</b>       | <b>5</b>         |



| weight/fruit (g) | More Production | Lower Production |
|------------------|-----------------|------------------|
| A                |                 | C                |
| B1               |                 | G                |
| B2               |                 | K                |
| D                |                 | L1               |
| E1               |                 | M1               |
| E2               |                 | M2               |
| F                |                 | N                |
| H                |                 | Q                |
| I                |                 |                  |
| J                |                 |                  |
| L2               |                 |                  |
| L3               |                 |                  |
| O                |                 |                  |
| P1               |                 |                  |
| P2               |                 |                  |
| <b>Total</b>     | <b>15</b>       | <b>8</b>         |

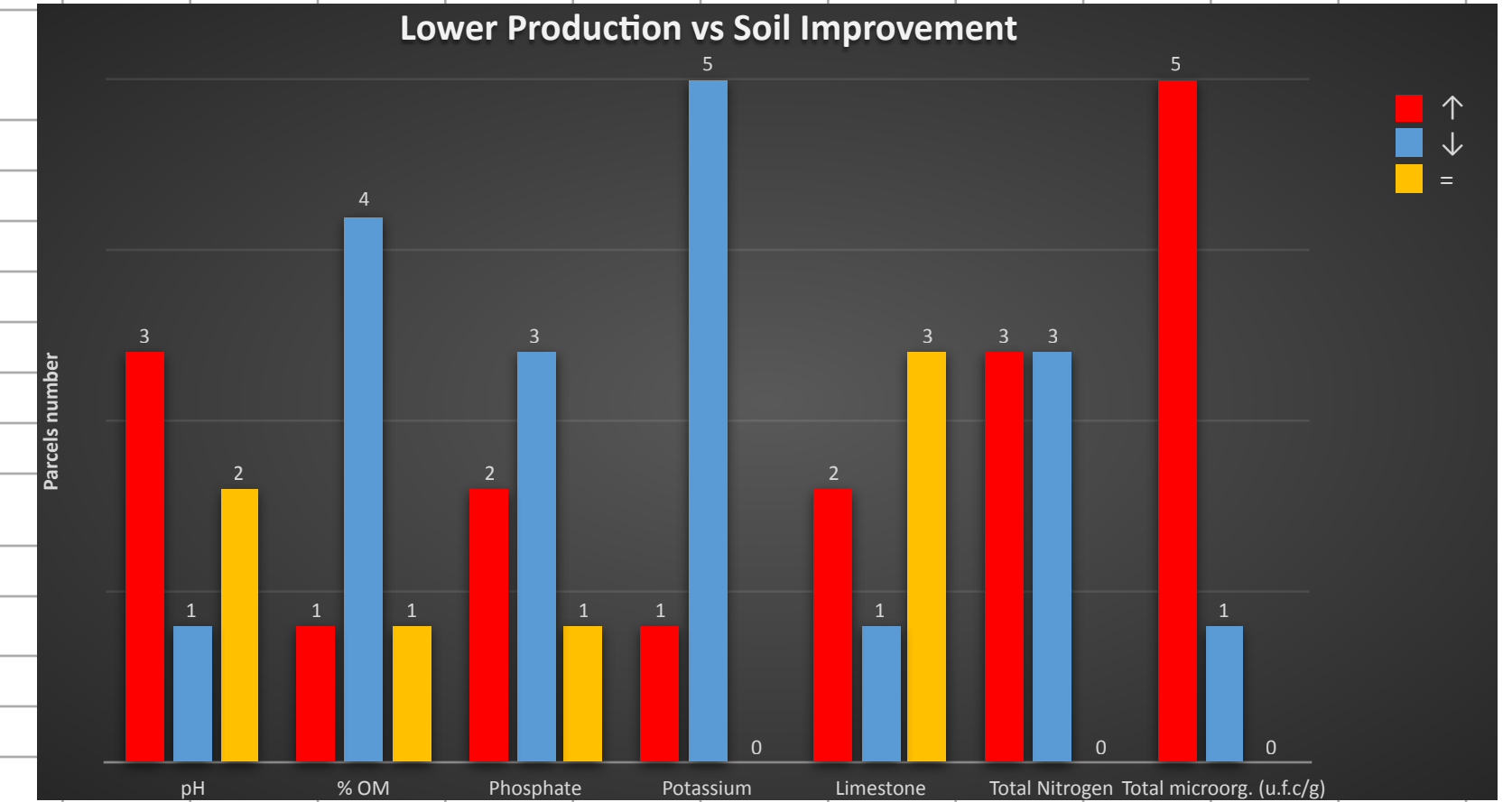
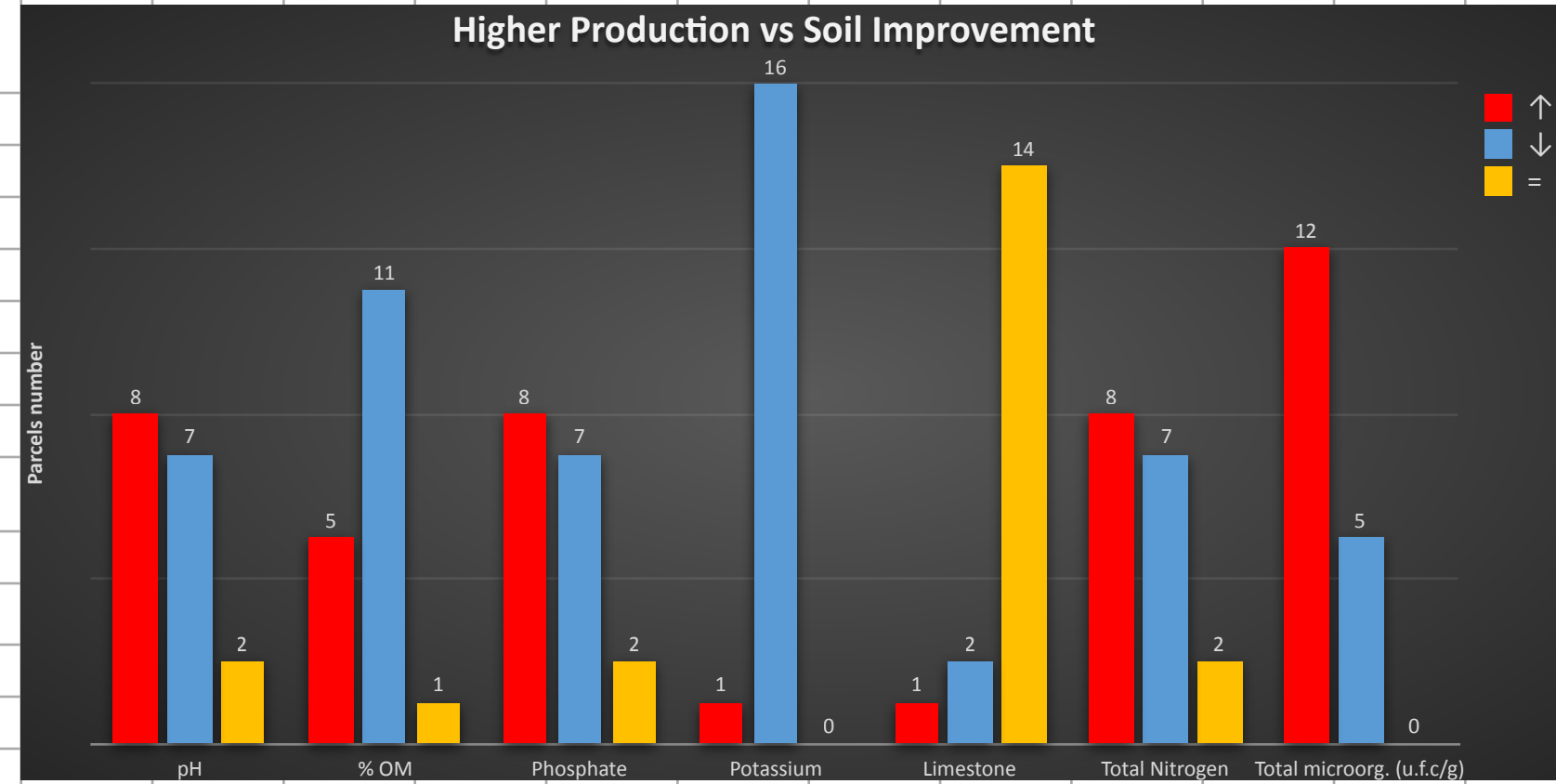


| Total Production (ton/há) | More Production | Lower Production |
|---------------------------|-----------------|------------------|
| A                         |                 | E1               |
| B1                        |                 | K                |
| B2                        |                 | L2               |
| C                         |                 | M1               |
| D                         |                 | N                |
| E2                        |                 | Q                |
| F                         |                 |                  |
| G                         |                 |                  |
| H                         |                 |                  |
| I                         |                 |                  |
| J                         |                 |                  |
| L1                        |                 |                  |
| L3                        |                 |                  |
| M2                        |                 |                  |
| O                         |                 |                  |
| P1                        |                 |                  |
| P2                        |                 |                  |
| <b>Total</b>              | <b>17</b>       | <b>6</b>         |



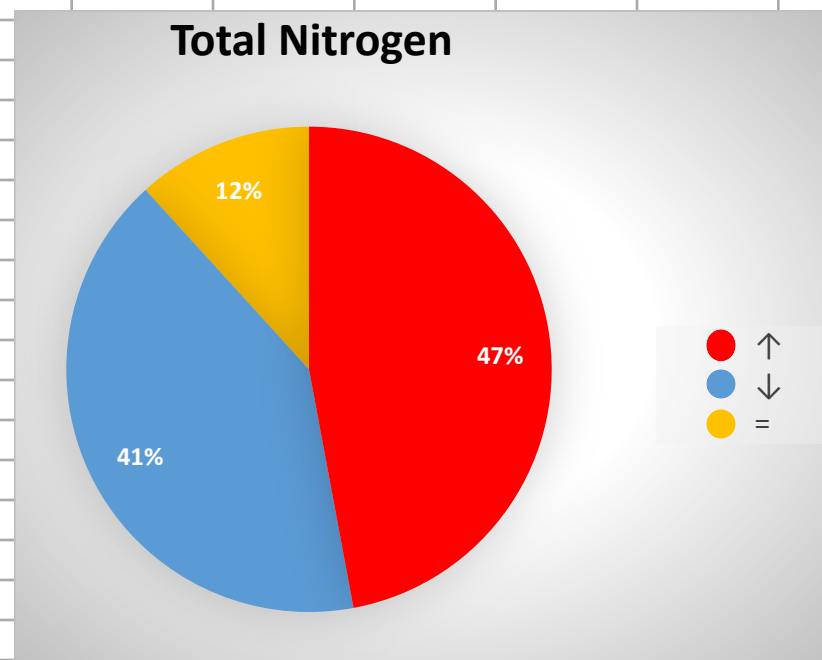
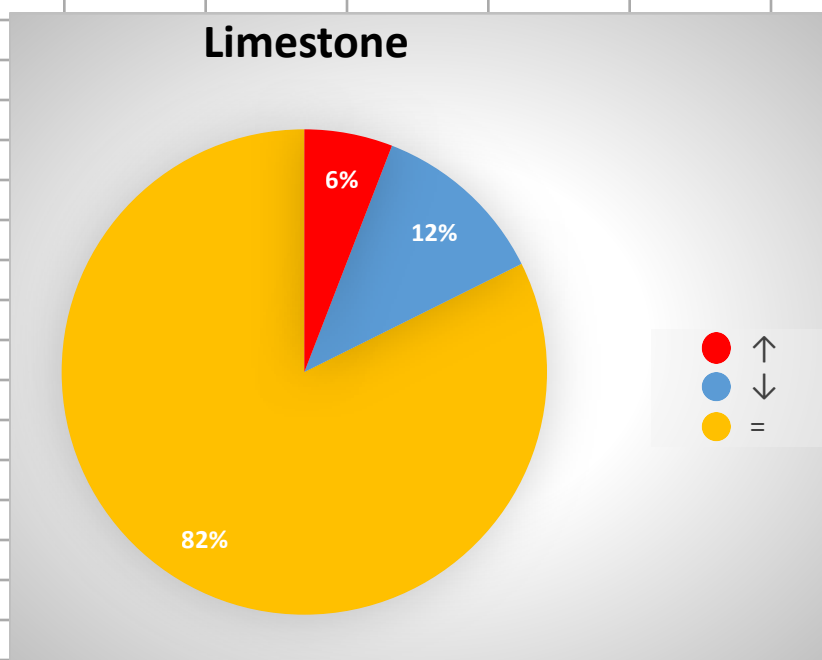
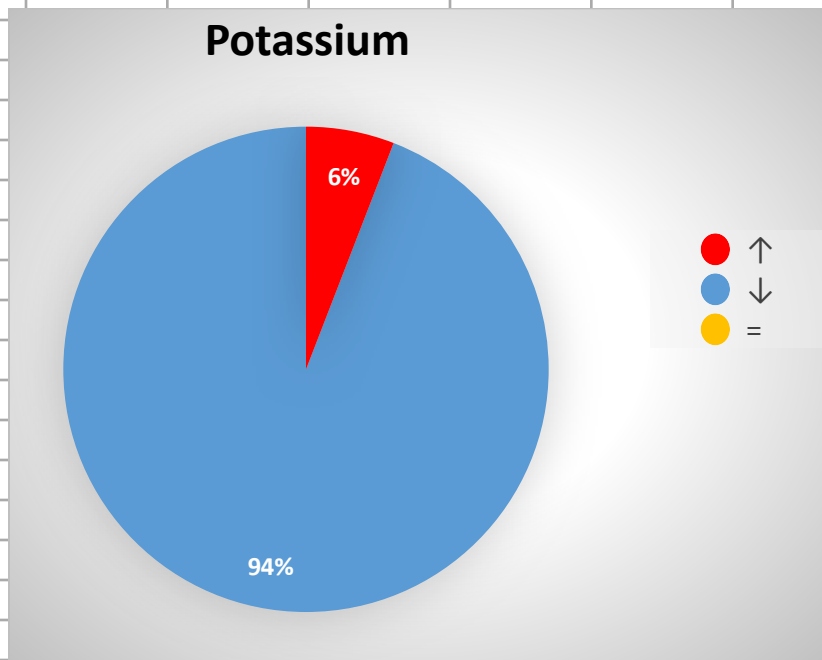
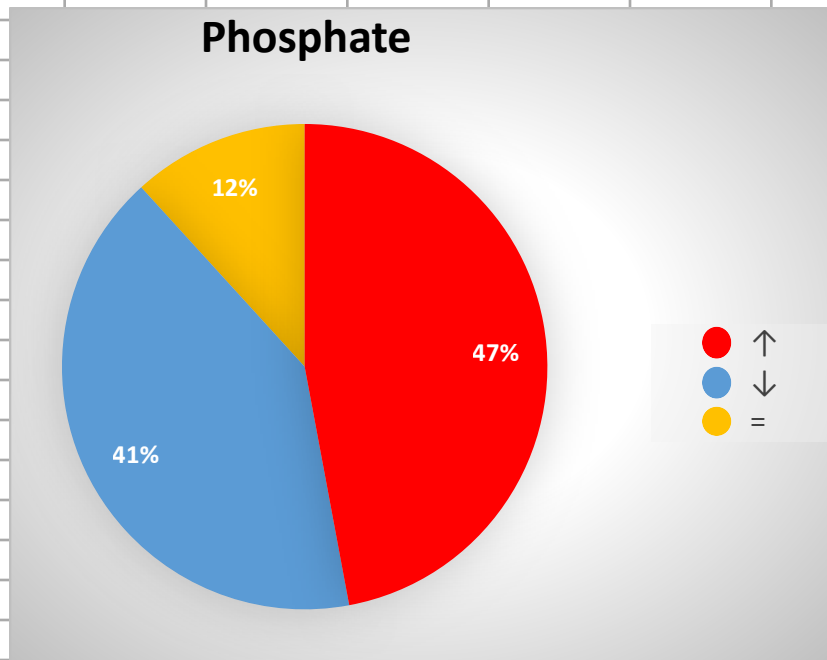
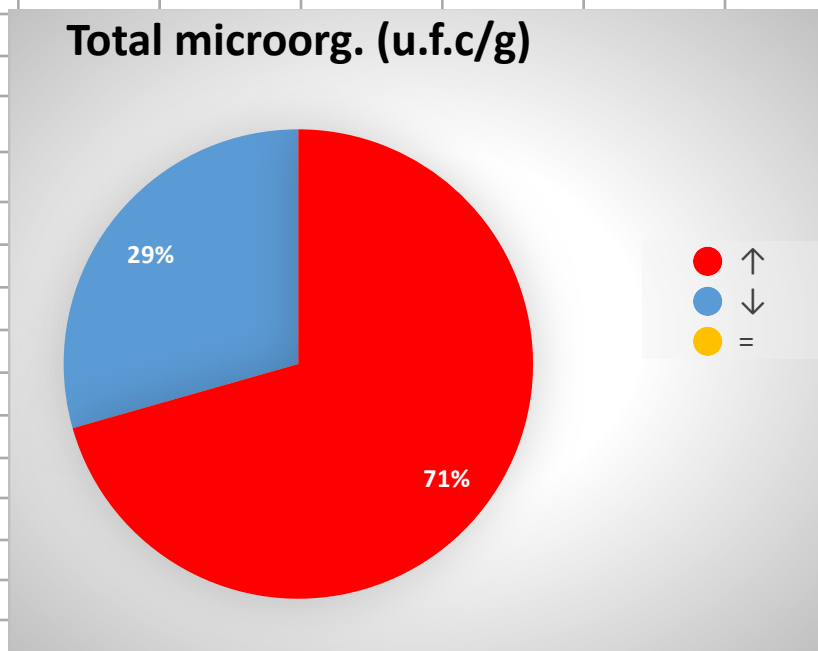
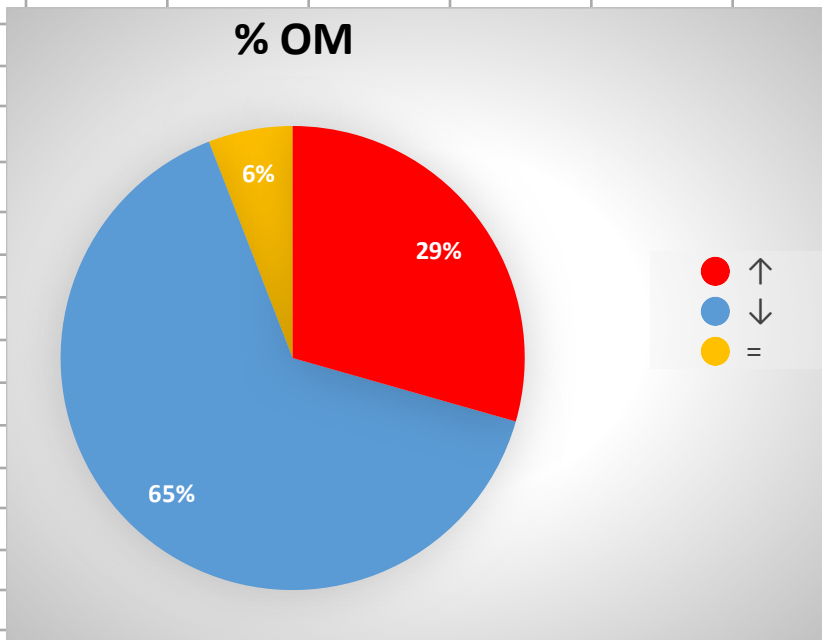
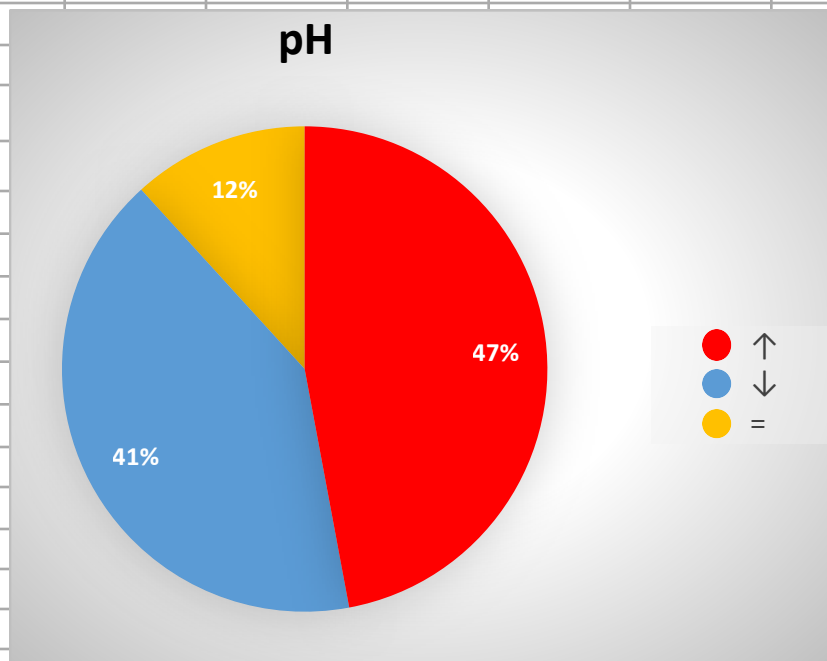
| Farmer            | Parcel | Total Production (ton/há) | Improvement of the soil |      |                 |                 |               |                    |                           |
|-------------------|--------|---------------------------|-------------------------|------|-----------------|-----------------|---------------|--------------------|---------------------------|
|                   |        |                           | pH                      | % OM | Phosphate (ppm) | Potassium (ppm) | Limestone (%) | Total Nitrogen (%) | Total microorg. (u.f.c/g) |
| Antônio Maximiano | A      | >                         | ↓                       | ↓    | ↑               | ↓               | =             | ↑                  | ↑                         |
| Coop Montargil    | B1     | >                         | ↑                       | ↑    | ↓               | ↓               | =             | =                  | ↓                         |
|                   | B2     | >                         |                         |      |                 |                 |               |                    |                           |
| Estratégia Verde  | C      | >                         | ↑                       | ↓    | ↓               | ↓               | ↑             | ↓                  | ↑                         |
| Feijão e Filho    | D      | >                         | ↓                       | ↓    | ↑               | ↓               | =             | ↓                  | ↑                         |
| Hortifarm         | E1     | <                         | ↓                       | =    | ↓               | ↓               | =             | ↑                  | ↑                         |
|                   | E2     | >                         |                         |      |                 |                 |               |                    |                           |
| João Ferreira     | F      | >                         | ↑                       | ↓    | ↓               | ↓               | =             | ↓                  | ↑                         |
| José Artilheiro   | G      | >                         | ↓                       | ↑    | ↑               | ↑               | =             | ↑                  | ↑                         |
| José Bairrão      | H      | >                         | ↑                       | ↑    | ↓               | ↓               | =             | ↑                  | ↑                         |
| Jung Santiago     | I      | >                         | ↓                       | ↓    | ↑               | ↓               | =             | ↓                  | ↑                         |
| Manuel Coscurão 1 | J      | >                         | ↓                       | ↑    | ↑               | ↓               | =             | ↑                  | ↓                         |
| Manuel Coscurão 2 | K      | <                         | =                       | ↑    | ↑               | ↑               | =             | ↑                  | ↑                         |
| Maria Gabriela    | L1     | >                         |                         |      |                 |                 |               |                    |                           |
|                   | L2     | <                         | =                       | ↓    | =               | ↓               | ↓             | ↓                  | ↑                         |
|                   | L3     | >                         |                         |      |                 |                 |               |                    |                           |
| Nuno Raposo       | M1     | <                         | ↑                       | ↓    | ↓               | ↓               | =             | ↑                  | ↑                         |
|                   | M2     | >                         |                         |      |                 |                 |               |                    |                           |
| Suporte Agrícola  | N      | <                         | ↑                       | ↓    | ↓               | ↓               | ↑             | ↓                  | ↓                         |
| Torriba_Mauricio  | O      | >                         | ↓                       | ↓    | ↑               | ↓               | =             | ↓                  | ↑                         |
| Turpancas         | P1     | >                         | ↑                       | ↓    | ↑               | ↓               | =             | ↑                  | ↓                         |
|                   | P2     | >                         |                         |      |                 |                 |               |                    |                           |
| Vitor Henriques   | Q      | <                         | ↑                       | ↓    | ↑               | ↓               | ↑             | ↓                  | ↑                         |

| Improvement of the soil   | Total Production (ton/há) |    |    |   |   |   |
|---------------------------|---------------------------|----|----|---|---|---|
|                           | >                         | <  | =  | > | < | = |
| pH                        | 8                         | 7  | 2  | 3 | 1 | 2 |
| % OM                      | 5                         | 11 | 1  | 1 | 4 | 1 |
| Phosphate                 | 8                         | 7  | 2  | 2 | 3 | 1 |
| Potassium                 | 1                         | 16 | 0  | 1 | 5 | 0 |
| Limestone                 | 1                         | 2  | 14 | 2 | 1 | 3 |
| Total Nitrogen            | 8                         | 7  | 2  | 3 | 3 | 0 |
| Total microorg. (u.f.c/g) | 12                        | 5  | 0  | 5 | 1 | 0 |



**More Production**

| Improvement of the soil   | Total Production (ton/há) |    |    |
|---------------------------|---------------------------|----|----|
|                           | ↑                         | ↓  | =  |
| pH                        | 8                         | 7  | 2  |
| % OM                      | 5                         | 11 | 1  |
| Phosphate                 | 8                         | 7  | 2  |
| Potassium                 | 1                         | 16 | 0  |
| Limestone                 | 1                         | 2  | 14 |
| Total Nitrogen            | 8                         | 7  | 2  |
| Total microorg. (u.f.c/g) | 12                        | 5  | 0  |



**Lower Production**

| Improvement of the soil   | Total Production (ton/há) |   |   |
|---------------------------|---------------------------|---|---|
|                           | ↑                         | ↓ | = |
| pH                        | 3                         | 1 | 2 |
| % OM                      | 1                         | 4 | 1 |
| Phosphate                 | 2                         | 3 | 1 |
| Potassium                 | 1                         | 5 | 0 |
| Limestone                 | 2                         | 1 | 3 |
| Total Nitrogen            | 3                         | 3 | 0 |
| Total microorg. (u.f.c/g) | 5                         | 1 | 0 |

