# Appendices

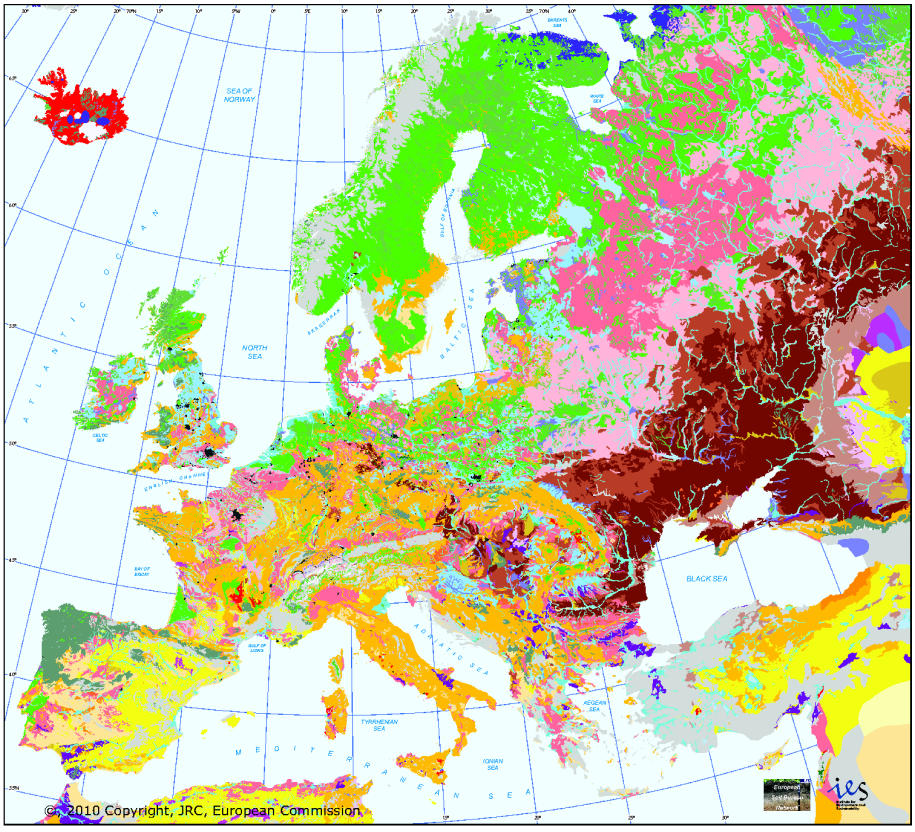


Figure 42: The major soil types of Europe [17].

Table 6: Results of elemental analysis *(deviation was calculated separately for each value, average standard deviations : 0.006 % for N, 0.021 % for C, 0.013 % for H and 0.004 % for S)*.

| **Soil type** | **Concentration of added P3HB (%)** | **Time of the analysis** | **Total N (%)** | **Total C (%)** | **Total H (%)** | **Total S (%)** |
|---|---|---|---|---|---|---|
| Phaeozem | 0 | Before degradation | 0.321 | 3.179 | 1.025 | 0.059 |
| | 0 | After degradation | 0.319 | 2.971 | 1.126 | 0.082 |
| | 0.5 | After degradation | 0.316 | 3.085 | 0.983 | 0.035 |
| | 1 | After degradation | 0.309 | 3.062 | 1.016 | 0.040 |
| | 3 | After degradation | 0.312 | 3.556 | 1.036 | 0.045 |
| Cambisol | 0 | Before degradation | 0.125 | 0.987 | 0.447 | 0.025 |
| | 0 | After degradation | 0.110 | 0.957 | 0.474 | 0.025 |
| | 0.5 | After degradation | 0.111 | 0.935 | 0.473 | 0.018 |
| | 1 | After degradation | 0.125 | 1.013 | 0.439 | 0.023 |
| | 3 | After degradation | 0.126 | 1.623 | 0.533 | 0.019 |
| Chernozem | 0 | Before degradation | 0.323 | 3.048 | - | - |
| | 0 | After degradation | 0.283 | 2.555 | 1.010 | 0.053 |
| | 0.5 | After degradation | 0.282 | 2.694 | 1.042 | 0.042 |
| | 1 | After degradation | 0.274 | 2.765 | 1.080 | 0.047 |
| | 3 | After degradation | 0.288 | 3.334 | 1.174 | 0.047 |

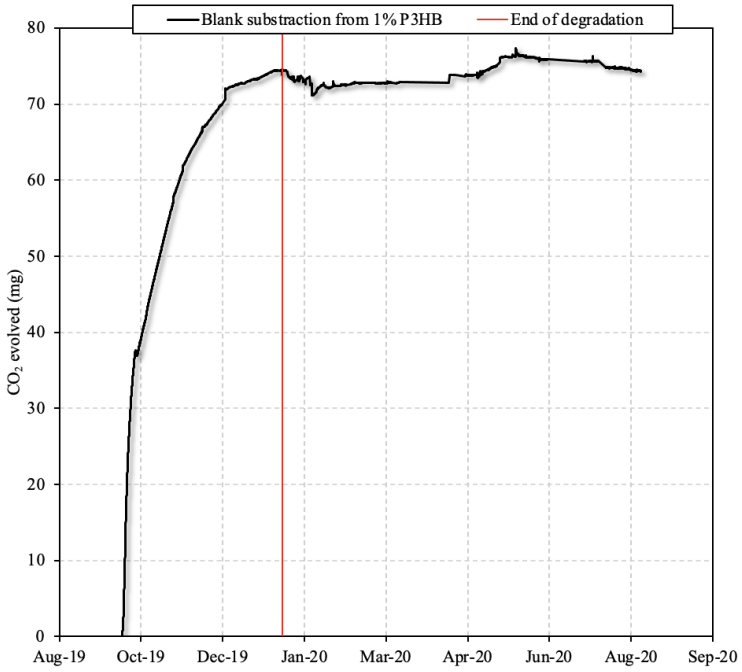


Figure 43: Subtraction of blank values from chernozem soil spiked with 1 % P3HB.

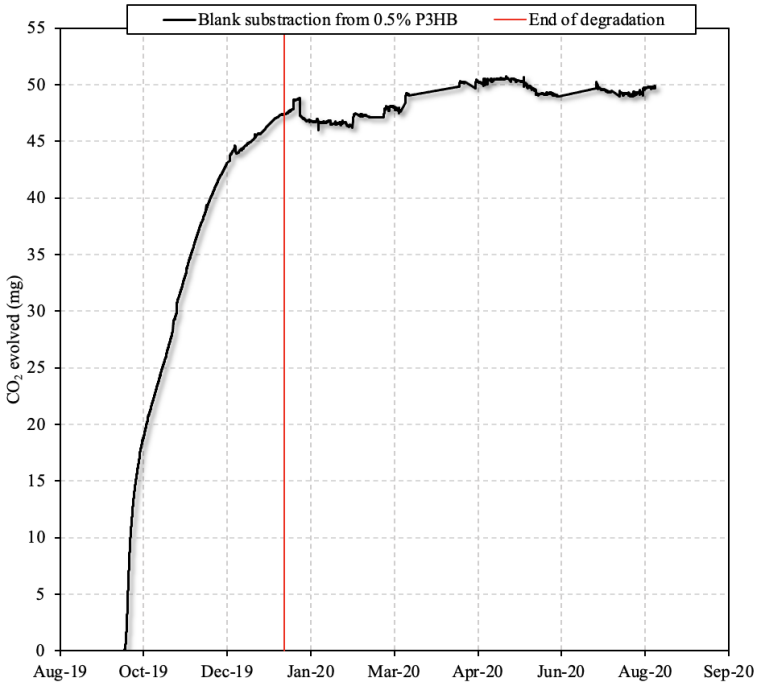


Figure 44: Subtraction of blank values from cambisol soil spiked with 0.5 % P3HB.

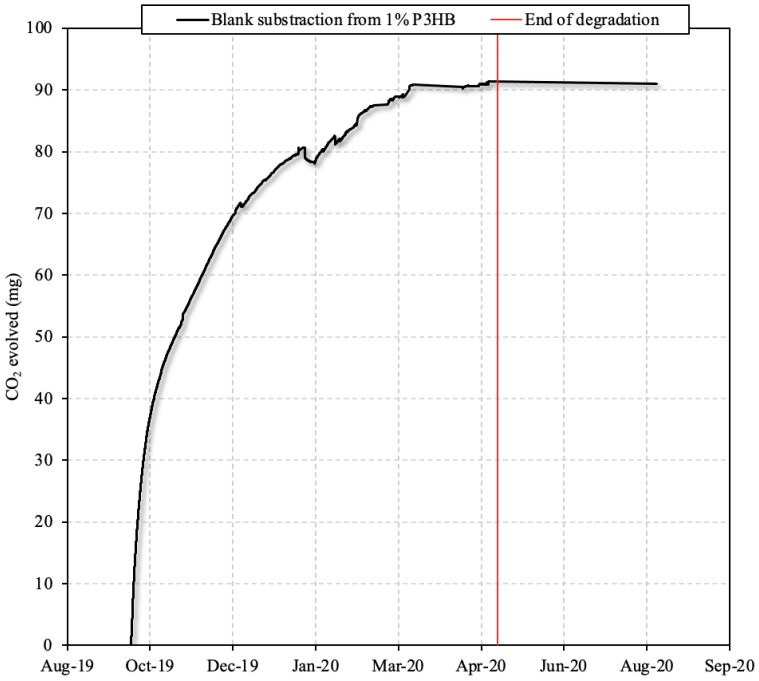


Figure 45: Subtraction of blank values from cambisol soil spiked with 1 % P3HB.

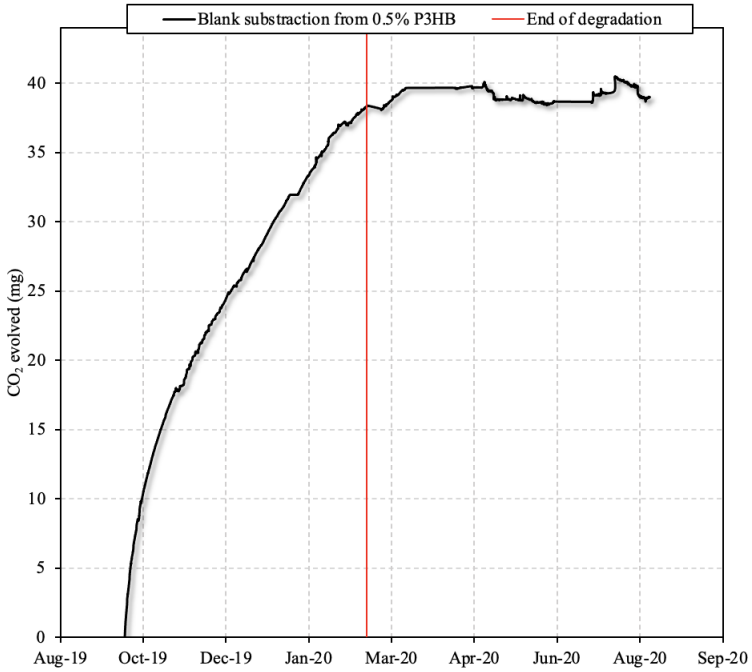


Figure 46: Subtraction of blank values from phaeozem soil spiked with 0.5 % P3HB.

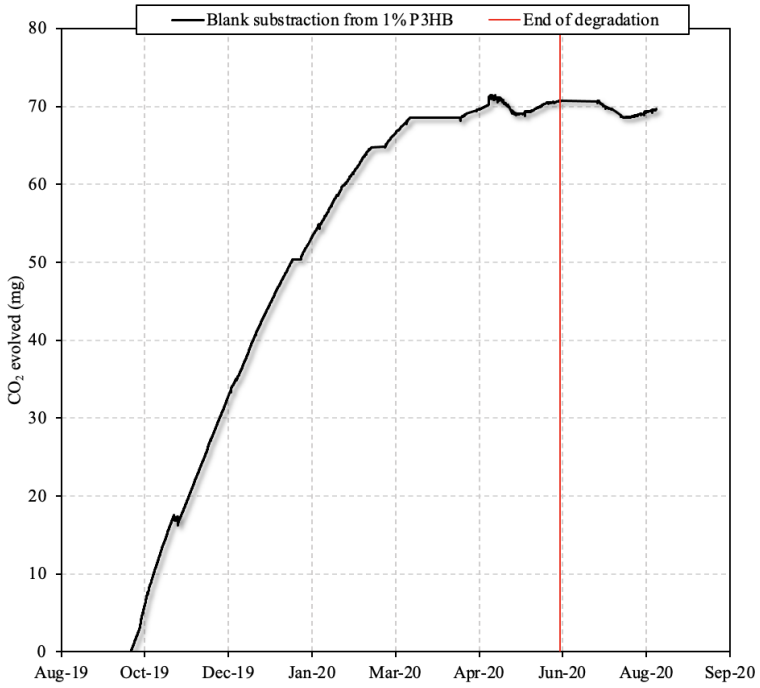


Figure 47: Subtraction of blank values from chernozem soil spiked with 1 % P3HB.

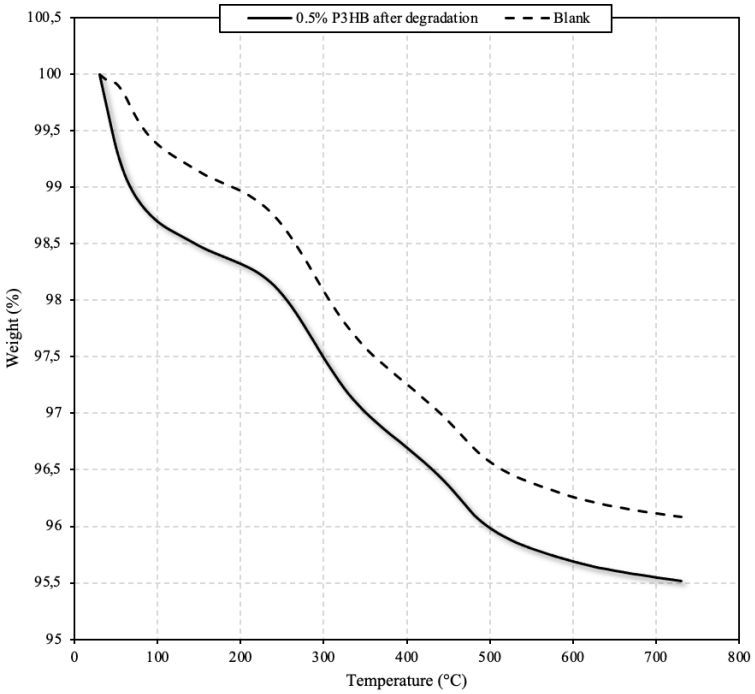


Figure 48: Weight loss of contaminated cambisol soil with addition of 0.5 % P3HB as a function of temperature.

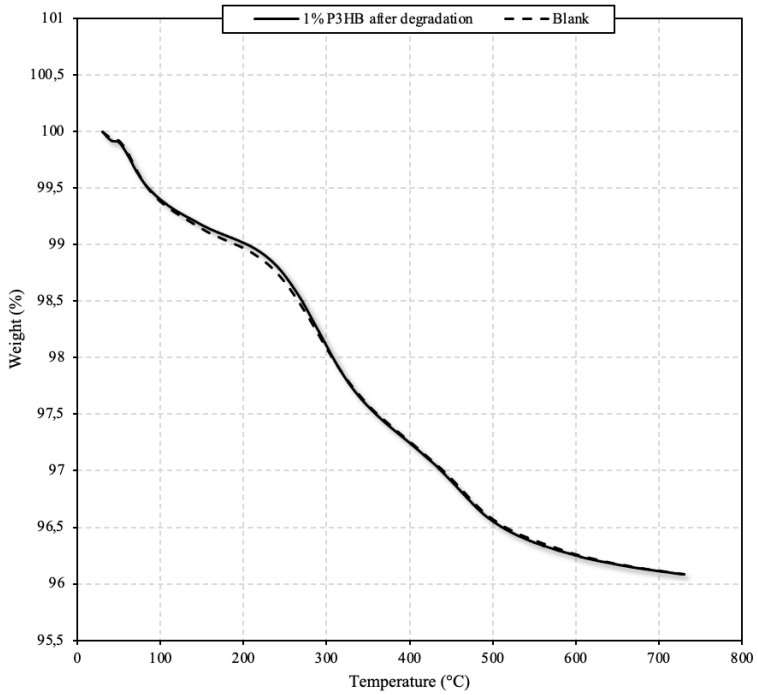


Figure 49: Weight loss of contaminated cambisol soil with addition of 1 % P3HB as a function of temperature.

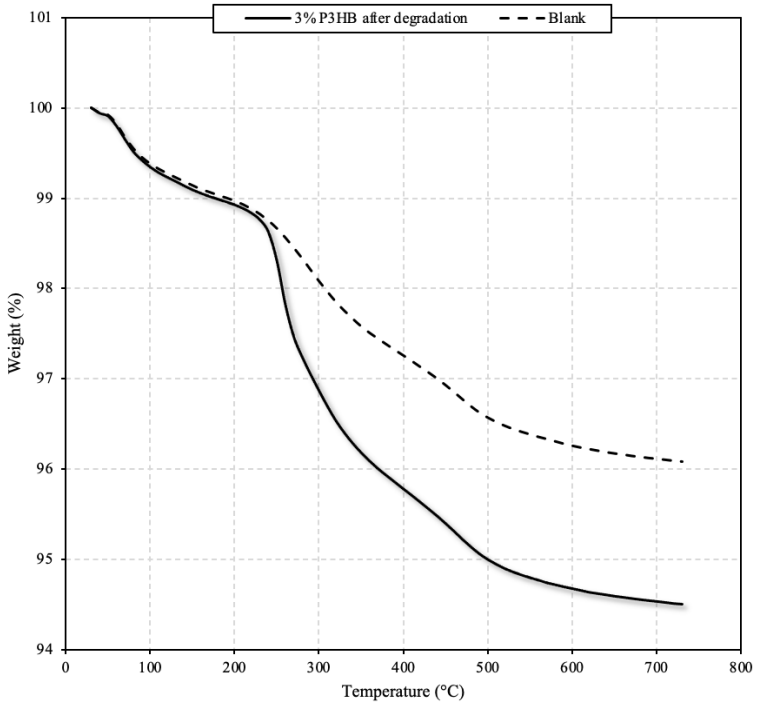


Figure 50: Weight loss of contaminated cambisol soil with addition of 3 % P3HB as a function of temperature.

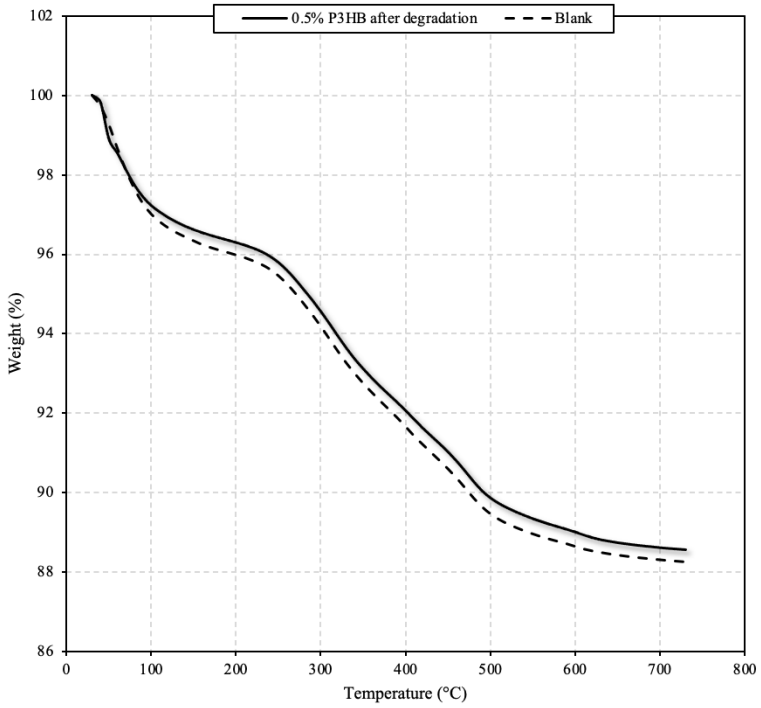


Figure 51: Weight loss of contaminated chernozem soil with addition of 0.5 % P3HB as a function of temperature.

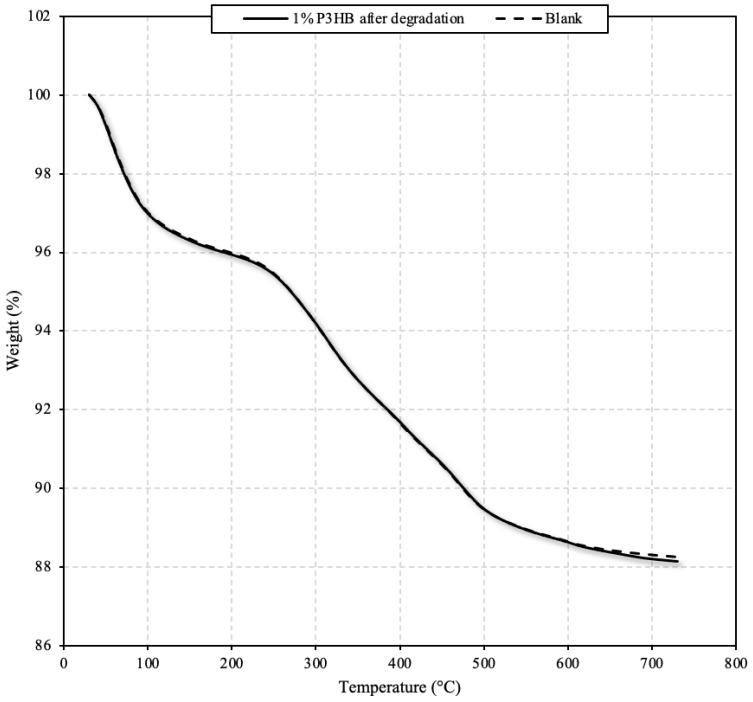


Figure 52: Weight loss of contaminated chernozem soil with addition of 1 % P3HB as a function of temperature.

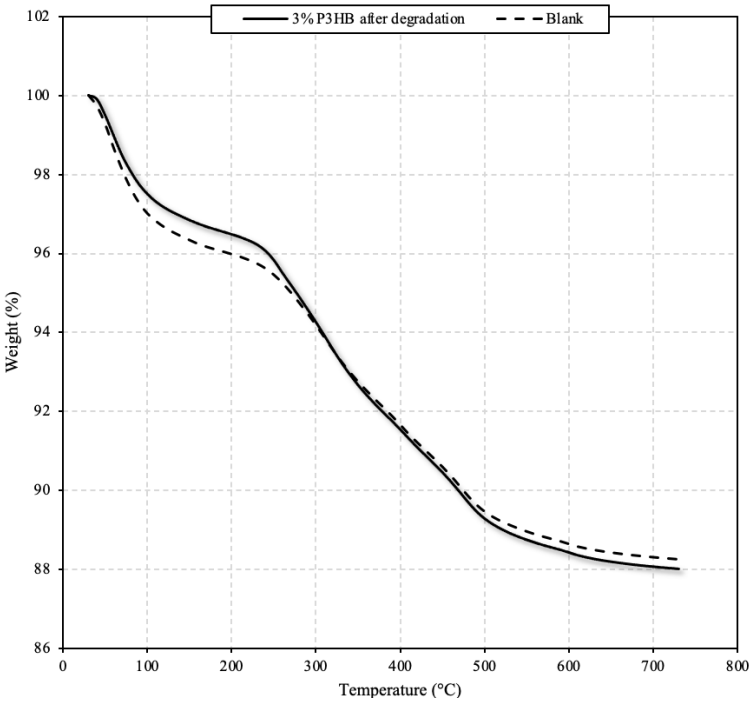


Figure 53: Weight loss of contaminated chernozem soil with addition of 3 % P3HB as a function of temperature.

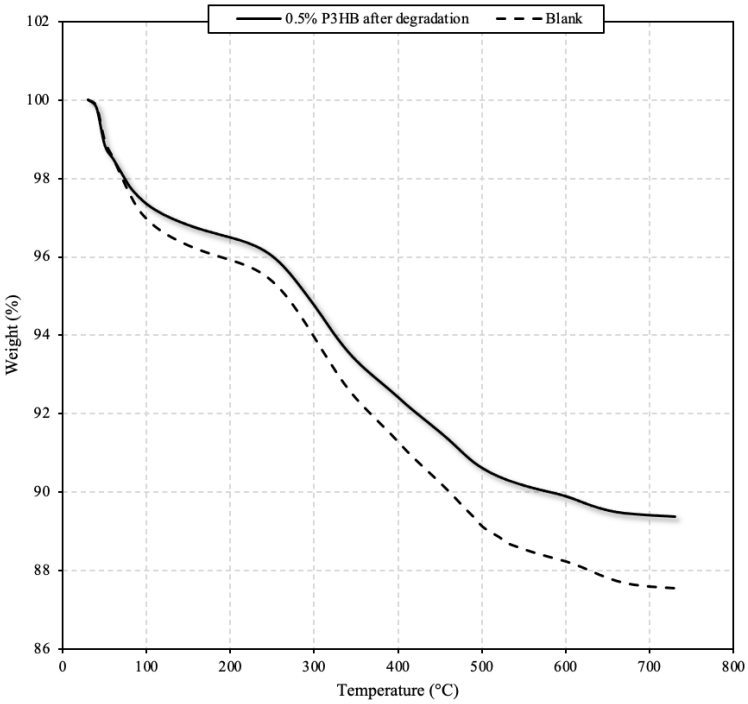


Figure 54: Weight loss of contaminated phaeozem soil with addition of 0.5 % P3HB as a function of temperature.

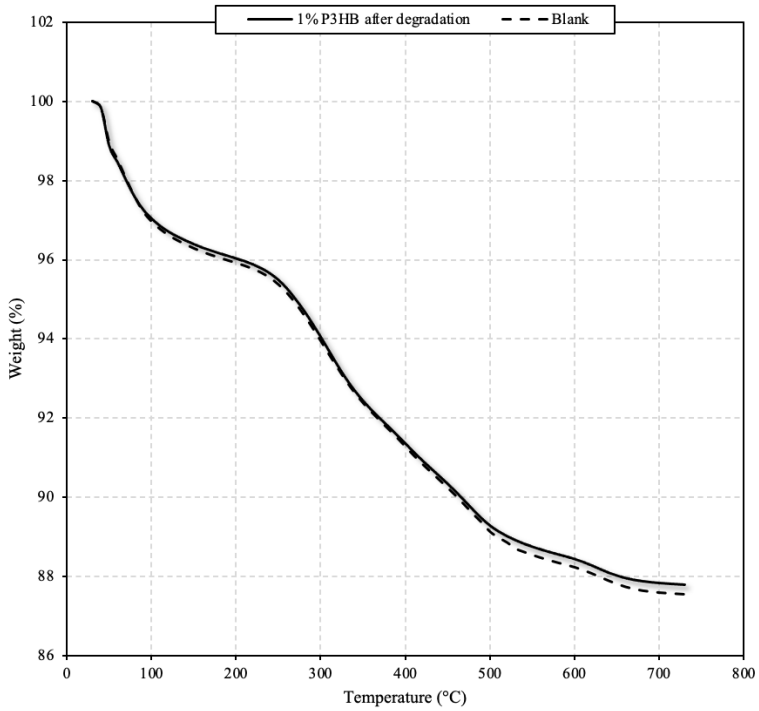


Figure 55: Weight loss of contaminated phaeozem soil with addition of 1 % P3HB as a function of temperature.

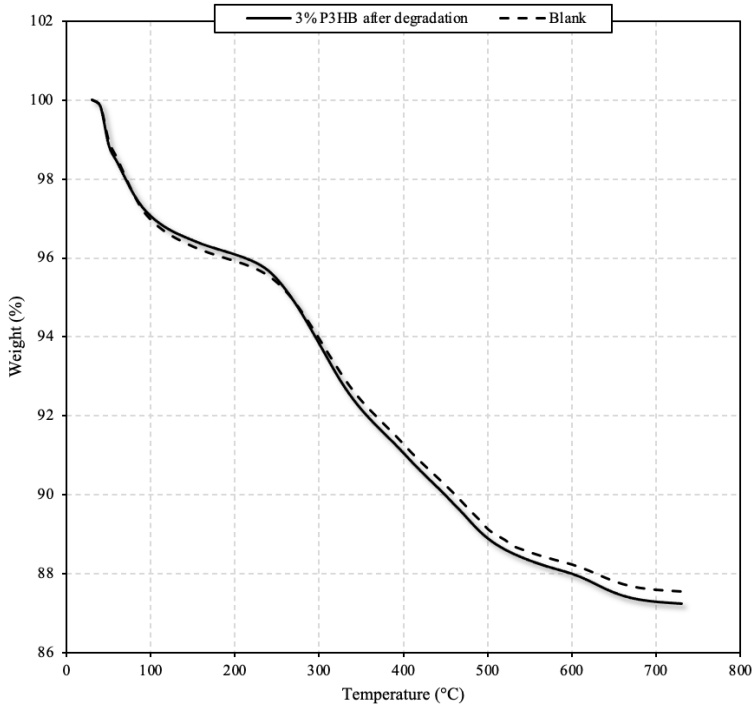


Figure 56: Weight loss of contaminated phaeozem soil with addition of 3 % P3HB as a function of temperature.

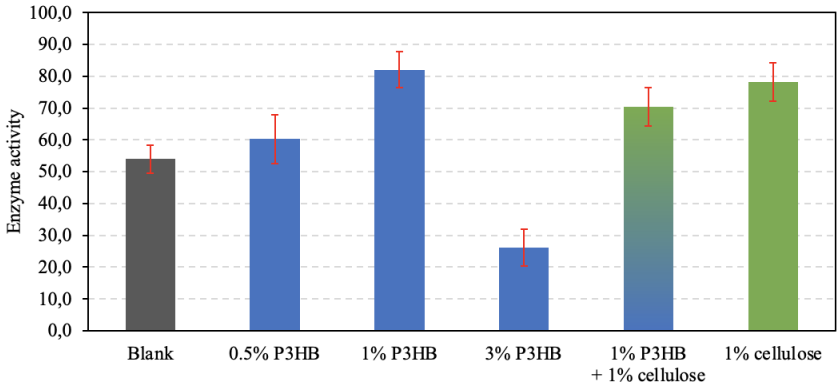


Figure 57: Phosphatase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for phaeozem soil samples with addition of P3HB and cellulose.

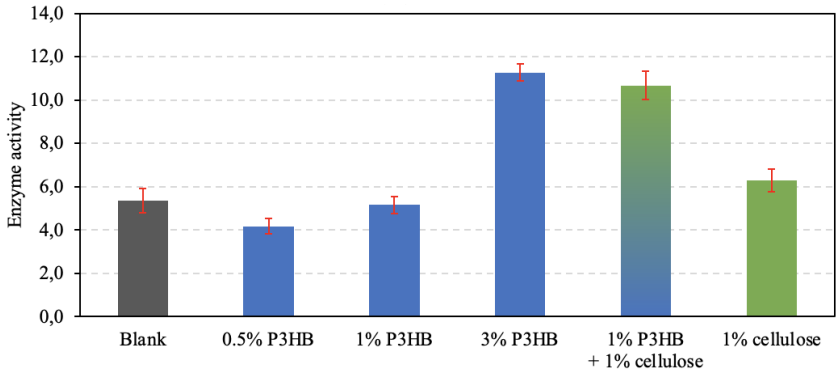


Figure 58: NAG activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for phaeozem soil samples with addition of P3HB and cellulose.

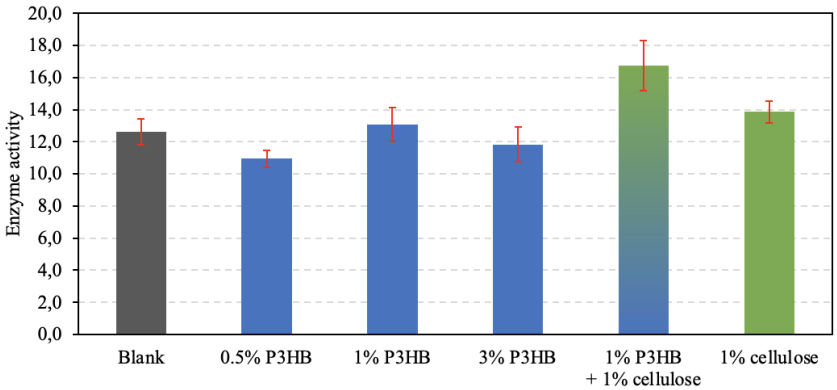


Figure 59: Arylsulfatase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for phaeozem soil samples with addition of P3HB and cellulose.

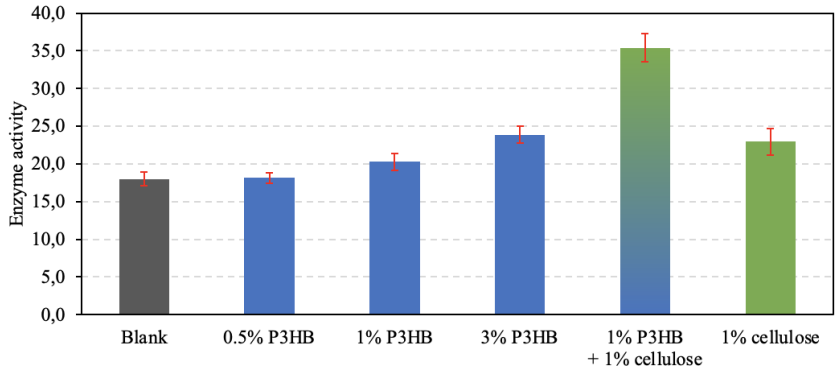


Figure 60: Urease activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for phaeozem soil samples with addition of P3HB and cellulose.

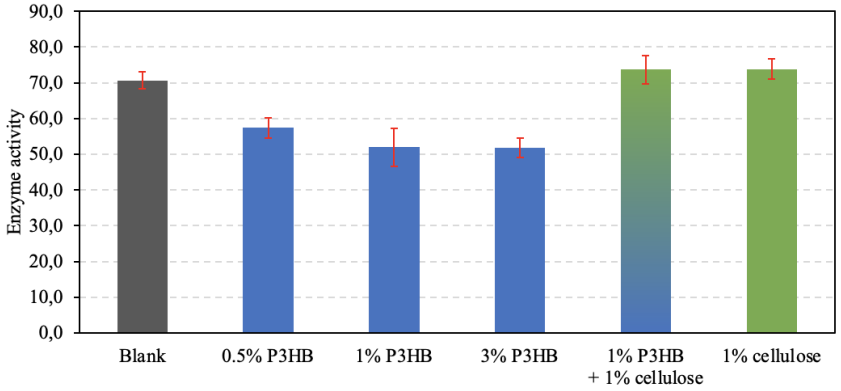


Figure 61: Glucosidase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for chernozem soil samples with addition of P3HB and cellulose.

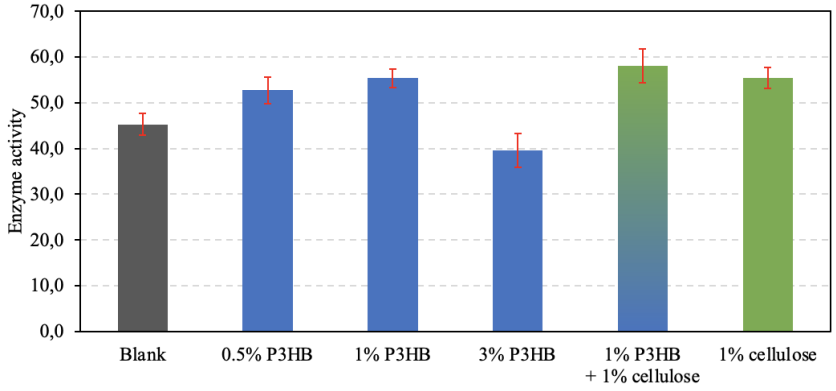


Figure 62: Phosphatase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for chernozem soil samples with addition of P3HB and cellulose.

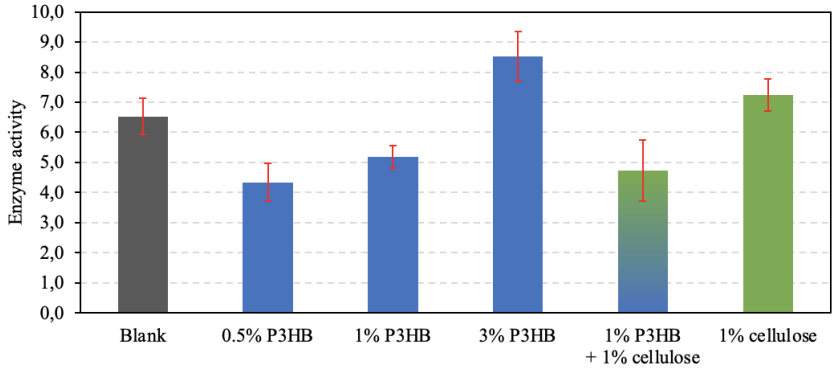


Figure 63: NAG activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for chernozem soil samples with addition of P3HB and cellulose.

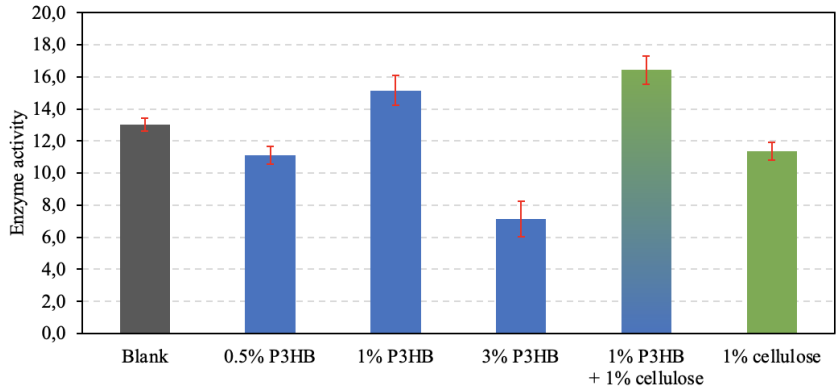


Figure 64: Arylsulfatase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for chernozem soil samples with addition of P3HB and cellulose.

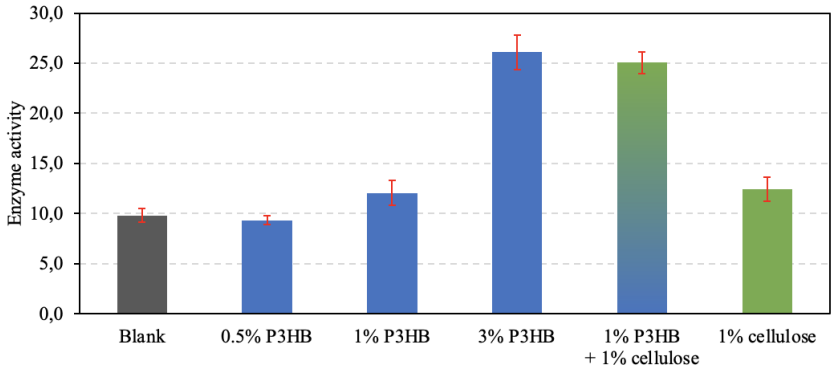


Figure 65: Urease activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for chernozem soil samples with addition of P3HB and cellulose.

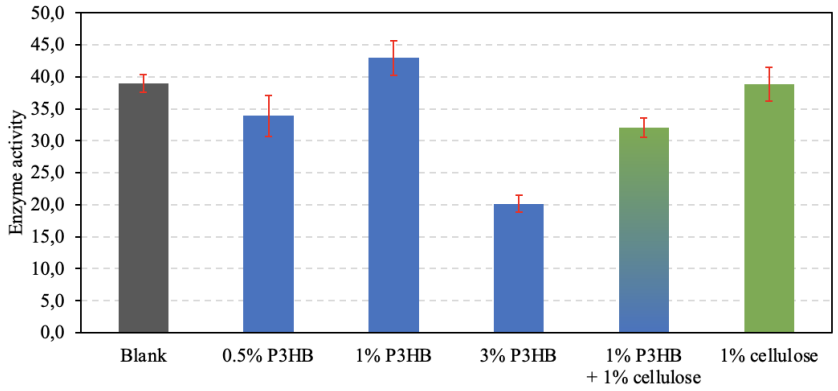


Figure 66: Glucosidase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for cambisol soil samples with addition of P3HB and cellulose.

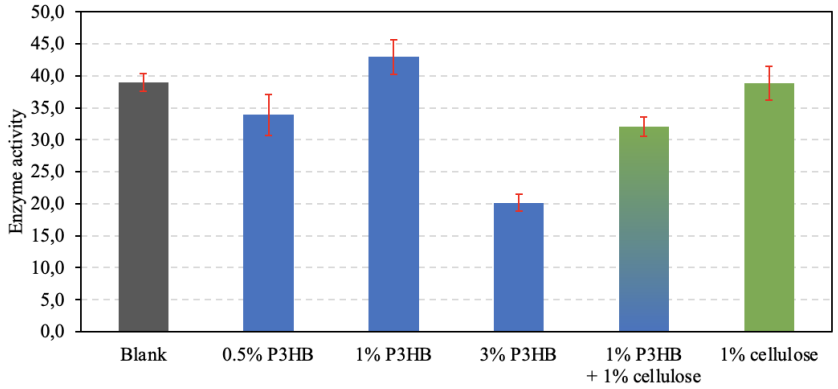


Figure 67: Phosphatase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for cambisol soil samples with addition of P3HB and cellulose.

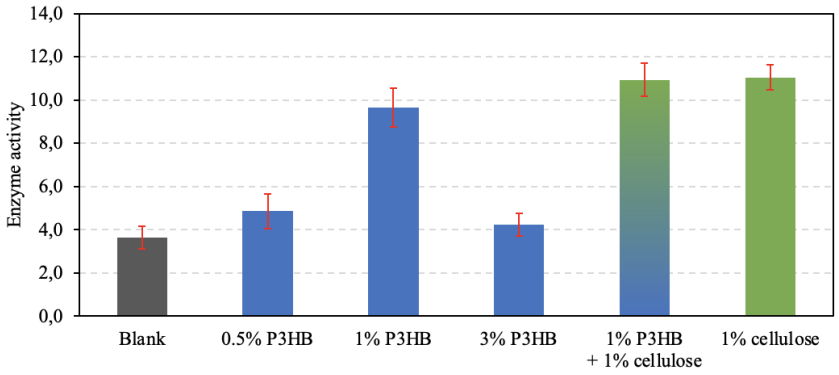


Figure 68: NAG activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for cambisol soil samples with addition of P3HB and cellulose.

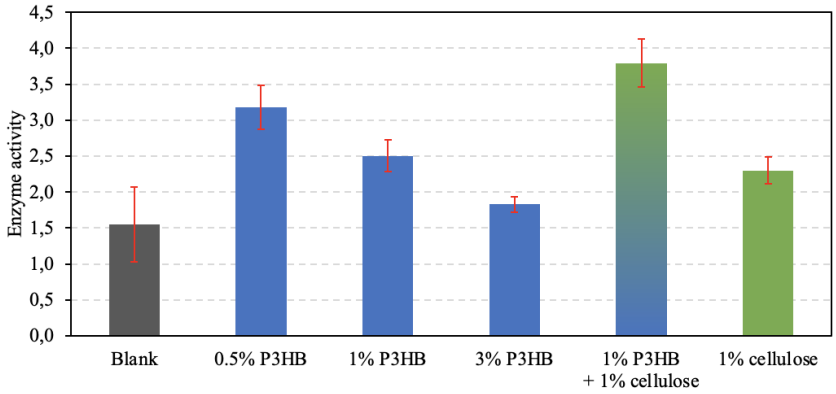


Figure 69: Arylsulfatase activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for cambisol soil samples with addition of P3HB and cellulose.

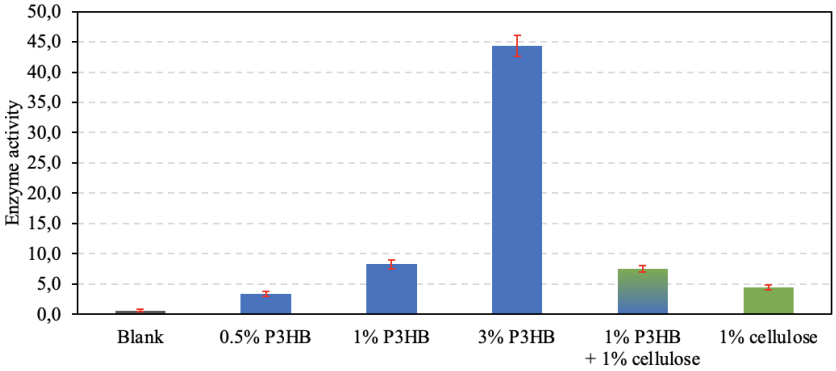


Figure 70: Urease activity (in $\mu g \cdot g^{-1} \cdot h^{-1}$) for cambisol soil samples with addition of P3HB and cellulose.