Shumei Natural Agriculture
Yatesbury Farm
The Impact on Soil Health

Shumei International
www.shumei-international.org
REPORT

Dropping:
Kale Grazed into Kale Grazed

Field Area: 3 Ha

Farm Details:
SHIEMUK
2 YATEBURY HOUSE
FARM COTTAGES
CALNE
SOIL

Client:
ANALYSIS SERVICES DIRECT
NRM LABORATORIES
COOPERS BRIDGE
BRAZIERS LANE
BRACKNELL
BERKS

Date Received: 09/02/2019  Date Reported: 14/02/2019

Soil Chemical Analysis

<table>
<thead>
<tr>
<th>Index</th>
<th>Result</th>
<th>Low</th>
<th>Marginal</th>
<th>Target</th>
<th>Marginal</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Low</td>
<td>Low</td>
<td>Marginal</td>
<td>Target</td>
<td>Marginal</td>
<td>High</td>
</tr>
<tr>
<td>K</td>
<td>High</td>
<td>High</td>
<td>Marginal</td>
<td>Target</td>
<td>Marginal</td>
<td>High</td>
</tr>
<tr>
<td>Mg</td>
<td>High</td>
<td>High</td>
<td>Marginal</td>
<td>Target</td>
<td>Marginal</td>
<td>High</td>
</tr>
<tr>
<td>Organic Matter (LOI)</td>
<td>Very Acid</td>
<td>Acid</td>
<td>Neutral</td>
<td>Alkali</td>
<td>Very Alkali</td>
<td></td>
</tr>
</tbody>
</table>

Soil pH:
5.2

Microbial Activity

CO2 Burst:
5.0

Potential N Mineralisation (kg/ha/day) - Based on CO2 Burst:

Textural Classification

<table>
<thead>
<tr>
<th>Breakdown</th>
<th>Sand 31%</th>
<th>Silt 40%</th>
<th>Clay 29%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soil Textural Class</td>
<td>Sandy Silt Loam</td>
<td></td>
<td></td>
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<tr>
<td>Macor Soil Classification</td>
<td>0°</td>
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<td></td>
</tr>
</tbody>
</table>

Water Erosion Risk

Soil Health Index - Based on soil chemical, physical and biological results:

5.3
REPORT (Continued)

Report No.: 74049
Sample No.: 456835
Sample Ref.: COURGETTE

Cropping: Courgettes into Courgettes
Field Area: 0.3 Ha

Farm Details:
SHIHYA IMASHI
3 YATESBURY HOUSE FARM
SOIL

Client:
ANALYSIS SERVICES DIRECT
COTTAGE LABORATORIES
COOPERS BRIDGE
BRAZIERS LANE
BRACKNELL
BERKS

Date Received: 15/10/2019
Date Reported: 22/10/2019

Soil Chemical Analysis

<table>
<thead>
<tr>
<th>Index</th>
<th>Result</th>
<th>Low</th>
<th>Marginal</th>
<th>Target</th>
<th>Marginal</th>
<th>High</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>4</td>
<td>61.0 mg/l</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K</td>
<td>2-</td>
<td>134 mg/l</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mg</td>
<td>3</td>
<td>115 mg/l</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Organic Matter (LOI)</td>
<td>3.9%</td>
<td>Very Acid</td>
<td>Acid</td>
<td>Neutral</td>
<td>Alkali</td>
<td>Very Alkali</td>
</tr>
</tbody>
</table>

Soil pH

| 7.3 |

When no future crop code has been given, levels are calculated assuming an arable crop. If general fertilizer and lime recommendations have been requested, these are given on the following sheets.
The analytical methods used are as described in DEFRA Reference Book 427. The index values are determined from the DEFRA Fertilizer Recommendations RS209 5th Edition.

Microbial Activity

| CO₂ Burst | 1.8 | 115 mg/kg |

Potential N Mineralisation (kg/ha/yr) - Based on CO₂ Burst

- Very Low (<15)
- Low (15-25)
- Moderate-Low (25-45)
- Moderate (45-75)
- High (75-105)
- Very High (105-123)

Textural Classification

- Heavy Soil
- Medium Soil
- Light Soil

Breakdown:
- Sand 17%
- Silt 57%
- Clay 20%

Soil Textural Class:
- Silty Clay Loam

Major Soil Classification:
- Medium

Calcium Carbonate Content:
- <1%
- Non-calcareous

Slope:
- 20°

In very calcareous soils (>10% calcium carbonate), the soil and clay sized fractions are likely to contain particles of carbonate which may result in the incorrect classification of soil type.

Water Erosion Risk

- >7°: Very High
- 4°-7°: High
- 2°-4°: Moderate
- <2°: Low

Soil Health Index - Based on soil chemical, physical and biological results.

- Very Low
- Low
- Moderate-Low
- Moderate
- High
- Very High

5.5