

**WEST VIRGINIA UNIVERSITY SOIL TESTING LABORATORY**  
**P.O. Box 6108, MORGANTOWN, WV 26506 - 6108**

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**Sample Given ID:** Optimum ST  
**Date received by the lab:** 3/2/2018

**LAB-ID:** 18-0004  
**Date of report:** 4/09/2018

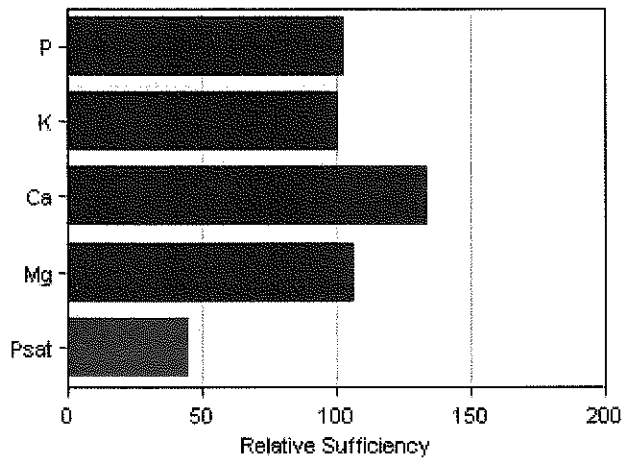
<b>Sample Date</b>	3/1/2018	<b>Previous management (crop, cover)</b>	Grass-clover hay
<b>Area Sampled (Acres)</b>	20.0	<b>Predominant Soil Series Name</b>	Gilpin
<b>Tillage Method</b>	No-Till	<b>Soil Texture</b>	Clay

**LAB TEST RESULTS**

**Soil pH:** 6.4      **Soil Organic Matter:** 5%

**Nutrients Values Rating**

<b>P (ppm)</b> 31	<b>Optimum -</b>
<b>K (ppm)</b> 91	<b>Optimum -</b>
<b>Ca (ppm)</b> 670	<b>Optimum</b>
<b>Mg (ppm)</b> 150	<b>Optimum -</b>
<b>Psat (%)</b> 5	<b>Low</b>



**Fertilizer recommendation for C01: Grass-Clover Hay having an expected yield of 4.0 Tons/A**

	<b>A) Sufficiency/Crop Removal Rate</b>	<b>B) Build and Maintenance Rate</b>
<b>N (Lbs./Acre)</b>	0	0
<b>P<sub>2</sub>O<sub>5</sub> (Lbs./Acre)</b>	0	45
<b>K<sub>2</sub>O (Lbs./Acre)</b>	0	165
<b>Aglime</b>	1 tons/A 100% ENV Limestone 1 tons/A 100% ENV Limestone	

**Notes:**

- Fertilizer recommendations are for topdressing an established stand, based on the indicated yield, with pH adjusted to 6.0 or above, and soil samples take to a 2-inch depth.
- Apply the recommended fertilizer rates annually.
- When yields are lower than indicated yield apply P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O in proportion to actual yield. When taking only 1 cut of hay yielding 2 tons/acre but recommendations are for 4 tons, reduce P<sub>2</sub>O<sub>5</sub> and K<sub>2</sub>O to half recommended rate ( $2/4 = 0.5$ ). If the recommended P<sub>2</sub>O<sub>5</sub> was 90,  $90 * 0.5 = 45$  lbs. P<sub>2</sub>O<sub>5</sub>/acre. Do this for all 4 recommendations.
- Soils testing below Optimum should be tested each fall to track improvement in soil test values.
- Soils testing in the Optimum range, receiving annual maintenance applications, should be tested every 3 years.
- Do not fertilize Grass-clover hay fields with N since it will decrease legumes in the stand. Small amounts of N in the fall (20 to 40 lbs. N/A) may be applied to stimulate tiller bud development and promote additional fall grazing without a negative impact on the clover.
- Fertilizer recommends are for addition of plant nutrients from all sources. Use manures and crop residues to build and maintain soil fertility as much as possible.

Your soil phosphorus concentration is not high enough to be of environmental concern. Be sure to follow the P recommendation provided in your soil test report.

If you have questions about the fertilizer recommendations in this report contact your local ANR county agent, **Shockey, William L.**, at **(304) 329-1391** or **bill.shockey@mail.wvu.edu**.