

Testing Selected Soils from Bamyan Center Agricultural Research Farms for Initial Macro and Micro Nutrients with Focus on Phosphorus Availability

ABSTRACT

Phosphorus (P) and micronutrients deficiencies are common in alkaline soils. Alkaline soils make up some of the most productive agricultural lands in the Bamyan center of Bamyan province in central Afghanistan and little is known about the phosphorus fertility status of these soils. The objectives of this study were to determine the soil fertility status of 4 soils collected from the four research farms in Bamyan center and also to conduct P incubation studies on these soils to determine the fixation and availability of added P. The experimental design was a randomized complete block with 3 replications of each treatment. Soils used in this study had pH > 8.0, free CaCO₃ contents of 9.3-10% and texture ranged from silty clay loam to sandy loam. Seven rates of P (0, 5.6, 10.9, 16.4, 21.8, 32.8, 43.7 mg kg⁻¹) were added as monocalciumphosphate [Ca (H₂PO₄) · 2H₂O]. Soils were incubated at approximately 0.03 MPa soil tension for 15, 30, 45, 60, 75 and 90 days at 25°C and the Mehlich 3 soil test was used to determine available P. Mehlich 3 extractable P did not change consistently with time so data were averaged over all 6 sampling periods to determine the effects of P rate on Mehlich 3 P soil test levels. Soils segregated into two groups of two soils each that responded similarly in their response to P applications. Approximately 70 percent of the applied P remained available in one group of soils, while in the other group of soils, approximately 50 percent of the applied P remained available.

Key words: Bamyan soil characteristics, calcareous soil, phosphorus, Mehlich 3 soil test.

Introduction

Phosphorus (P) is an essential nutrient for plant growth and its deficiency is common in calcareous soils. Soil P is often not available at the minimum level needed for plant growth and available soil P can be improved by adding P fertilizers (Jalali and Ranjbar, 2010). Because P is a finite resource, proper management of fertilizer P is necessary to maximize crop production while minimizing the risk of P loss to the environment. Phosphorus in agricultural soils appears in three fractions: organic P (25-30%), insoluble inorganic P (about 75%) and a small soluble P fraction. Less than 10% of the total P in soil is available in the plant-animal life cycle (Ozanne, 1980).

34 Phosphorus makes up approximately 0.2% of plant dry weight and P is a component of key
35 molecules such as phospholipids, nucleic acids and ATP, so plants cannot grow well without a
36 sufficient supply of P (Schachtman et al., 1998). Although the total amount of P in soils can be
37 relatively high, because most of this P is not present in plant-available forms it is important to
38 make sure that optimum P fertilizer management strategies are developed to ensure plant
39 productivity.

40 Little research has been conducted on calcareous soils of Afghanistan, and these are the most
41 highly productive agricultural lands in the country.

42 Not all of the P fertilizer applied to soils is available to plants due to surface adsorption and
43 precipitation processes, particularly in calcareous soils (Afif et al., 1993). For example, there
44 was a negative correlation between P fertilizer and CaCO_3 content when available P was
45 measured as resin extractable P in 20 calcareous soils of the continental USA (Jones et al.,
46 1984). For another group of calcareous soils from several countries, researchers found that P
47 availability after both 30 and 180 days of incubation was closely correlated to CaCO_3 content
48 (Sharpley et al., 1989). Larsen and Widdowson (1970) reported that P sorption in calcareous
49 soils increased with increased CaCO_3 content.

50 Ryan et al. (1985) found that solid phase CaCO_3 proved to be the most dominant phase
51 controlling P reactions in the soils they studied. However, some studies argue that the reactivity
52 of CaCO_3 could be more dependent on the specific surface area, which is related to CaCO_3
53 particle size distribution, than total CaCO_3 when relating soil properties to P reactions in
54 calcareous soils (Holford and Mattingly, 1975). The same idea has been confirmed by Borrero et
55 al. (1988).

56 Soil pH affects P solubility and plant uptake (Ortas and Rowell, 2000). Researchers suggest that
57 phosphate adsorption capacity increases as pH decreases (Bolan and Hedley, 1990). According
58 to some researchers, it is important to understand the effect of pH on P partitioning to explain
59 differences in observed P sorption levels in soil (Tunesi et al., 1999). Tunesi et al. (1999) found
60 that in Na-saturated soils, phosphate partitioning into the solid phase decreased as pH
61 increased. Moreover, according to these researchers, at higher pH values lower P sorption can
62 be observed at the initial portion of the isotherm. Tunesi et al. (1999) also suggested that a
63 higher pH value could decrease the solubility of Ca-P mineral phases and increase precipitation,
64 which would further decrease solution P.

65 An incubation study on three calcareous soils of the UK indicated that decreasing soil pH could
66 increase soil P solubility (Ortas and Rowell, 2000). They also pointed out that the formation of
67 insoluble Ca minerals was the key factor in decreasing P availability, particularly in higher pH
68 soils. Laboratory studies also have indicated that P sorption can vary with pH (Zhou et al.,

69 2005). These researchers also believe that P sorption decreases as pH increases and as a result,
70 the surface charge becomes more negative.

71 The effect of soil pH on the dissolution of phosphate rocks and the availability of
72 inorganic P to plants has been studied by many researchers. For example, Bolan and Hedley
73 (1990) showed an increase in plant-available P from phosphate rocks with decreased soil pH.

74 Keeping in mind on the above information about the lowP availability in alkaline soil, the
75 present investigation ~~are to bewas~~ conducted during 2016 -2017at soil science laboratory,
76 Bamyam university, ~~in Bamyam center with the latitude of 34o N and Longitude of 67o E with the~~
77 ~~following objectives:~~

78 ~~in Bamyam center, with the following objectives-~~

79 1).To determine the soil fertility status of soils to be collected from the Bamyam University
80 farms and Department of Agriculture Research Farms and;

81 2). To conduct P incubation studies on these soils to determine the fixation and availability of
82 added P.

83 Research Methodology

84 Routine Soil Analyses

85 Four soils ~~will bewere~~ collected from four agricultural research farms of Bamyam. Soil
86 samples ~~will bewere~~ air dried and ground to pass through a 2-mm sieve for all laboratory
87 analyses.The Bamyam University soil fertility laboratory ~~will bewas~~ used to conduct all the
88 analysis. ~~All the equipments (reagents, filter papers, beakers etc.. which are necessary to~~
89 ~~conduct this experiment are available inside the soil fertility lab of Bamyam University) and the~~
90 ~~reference book that will be used for each of the necessary test is " Recommended Chemical Soil~~
91 ~~Test Procedures for The North Central Region , Agricultural Expreiment Stations of Illinois,~~
92 ~~Indiana, Iowa, Kensas, Michigan, Minnesota, Missouri, Nebraska and the U.S. Department of~~
93 ~~Agiculture, No 221).~~

94 3.2. Phosphorus Incubation Study

95 The incubation experiment will be a split plot design with three blocked replicates.
96 Whole unit treatments ~~will be of~~ 4 soils from Bamyam, with P applied at 7 different rates (0, 5.6,
97 10.9, 16.4, 21.8, 32.8, 43.7 mg P kg⁻¹). Subsamples ~~will bewere~~ taken6 times after 15, 30, 45, 60,
98 75and 90 days of incubation and Mehlich 3 P ~~will bewas~~ measured on each sample.Finally, the
99 statistical analysis (ANOVA) ~~will behas been~~ conducted to analyze the data.

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Result and Discussion

Soil Chemical and Physical Properties

The 4 soils used in this experiment varied in their initial P contents and other soil chemical and physical properties (Table 1 and Table 2). The soils' initial total P ranged from 19.5 to 24.6 mg kg⁻¹ (Table 1). Soils pH and percent CaCO₃ ranged from 8.3 to 8.7 and 9.3 to 10.7%, respectively. Soil textural class ranged from silty clay loam to sandy loam and clay content ranged from 18-36% (Table 2).

Effect of Applied Phosphorus on Mehlich 3 Phosphorus

Mehlich 3 soil test P increased with P additions at all sampling times, but the magnitude of increase in soil test P varied among incubation times and did not follow any pattern that could be explained based on soil properties or time. Therefore, the treatment response was averaged over time and only the effect of P rates on the change in Mehlich 3 soil P test level was considered. Soils 1 and 2 responded similarly to each other, but significantly different ($P < 0.01$) from soils 3 and 4, with respect to the change in Mehlich 3 soil test P with P additions (Table 3). Even though soils 1 and 2 differed in texture, pH, and initial P content responded similarly in P application rate (Table 1, Table 2, and Table 3). These soils all had greater initial soil test P levels compared to soils 3 and 4 (Table 1).

The predicted values for the increase in Mehlich 3 soil test P with P addition for these two soils were described by the following equation:

$$Y = 8.97 + 0.01X^2$$

Where Y equals the change in soil test P and X equals P addition with both variables expressed in mg P kg⁻¹ soil. The slope and intercepts were different from zero ($P < 0.0001$) and the correlation between P application and change in Mehlich 3 soil test P level was highly significant ($r^2 = 0.93$; $P < 0.0001$; Table 3). At the greatest P addition of 43.7 mg P kg⁻¹, the Mehlich 3 soil test P value changed approximately 30 mg P kg⁻¹. Approximately 70% of the added P remained available in these soils.

Bolan and Hedley (1990) suggested that phosphate adsorption capacity increases as pH decreases. Moreover, Ortas and Rowell (2000) reported that soil pH affects P solubility and plant uptake. Soil 2 had a lower clay content (18%) compared to soil 1 (36%). We expected that less P might have been sorbed by soil 1 compared to all other soils. Fox and Kamprath (1970) reported a positive correlation between the clay content and P adsorption capacity of soils and Jones et al. (1984) found a negative correlation between P fertilizer and CaCO₃ content and changes in resin extractable P with P additions in 20 calcareous soils of the continental USA. Sharply et al. (1989). Also found that P availability after 30 and 180 days of incubation was closely correlated to the CaCO₃ content of calcareous soils from several countries. Soils 3 and 4 also responded similarly to P additions as expressed by the change in Mehlich 3 soil test P values. Soils 3 and 4 were both silty clay loam with a pH ranges from 8.6-8.7 (Table 1).

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138 The predicted values for the increase in Mehlich 3 soil test P with P additions for these two
139 soils were estimated by the following equation:

140 $Y = 2.90 + 0.01X^2$

141 Where Y equals the change in soil test P and X equals P addition with both variables expressed
142 in mg P kg⁻¹ soil. The slope and intercepts were different from zero ($P < 0.0001$) and the
143 correlation between P application and change in Mehlich 3 soil test P level was highly significant
144 ($r^2 = 0.93$; $P < 0.0001$; Table 3). In these soils we found roughly a 21 mg P kg⁻¹ increase in
145 Mehlich 3 soil P test level after adding 43.7 mg P kg⁻¹. Approximately 50% of the added P
146 remained available in these soils, which was significantly less than in soils 1 and 2. These results
147 were not unexpected and Soils 3 and 4 had lesser initial soil test P values than Soils 1 and 2.
148 Soil 4 had the greatest pH. In an incubation study on three calcareous soils of the UK, Ortas and
149 Rowell (2000) found that decreasing soil pH could increase soil P solubility, and Fox and
150 Kamprath (1970) found a positive correlation between clay content and soil P adsorption
151 capacity.

152 The percent free CaCO₃ for Soils 3 and 4 also were ranged from 10.1-10.6 % and according
153 to previous researchers, P sorption in calcareous soils increased with increased CaCO₃ content
154 (Larsen and Widdowson, 1970).

155 Conclusion

156 The 4 calcareous soils from Bamyan center varied in their initial macro and micro nutrients
157 content and many other soil properties. The rate and time effects varied among all 4 soils and
158 time effect on change in Mehlich 3 soil test P levels were not consistent. Soil Mehlich 3 P
159 increased with added P and the availability of added P differed between two groups of soils.
160 These two groups of soils were separated between high P testing soils and low P testing soils.

161 Recommendation

162 1) Based on results, the organic content in Bamyan soil is low, so it is recommended to apply
163 the different sources of organic fertilizers, ~~especially composted~~ especially composted animal
164 manures on the cultivated land.

165 2) According to many studies, the application of both chemical and organic fertilizers highly
166 increase the efficiency of chemical fertilizers (Namreen et al, 2013). So, it is recommended to
167 apply both chemical and organic fertilizer simultaneously on the field.

168 3) In mechanical agriculture, the application of fertilizers must be according to availability and
169 amount of essential nutrients in the soil and needs of cultivated plants. So, the results from this
170 research should be able to at least assist farmers in applying the correct doses of chemical
171 fertilizers.

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Table 1: Origin and selected Properties of soils collected from the Bamyan centre in the Bamyan province of Central Afghanistan.

Soil ID	Soil Origin	pH	EC	CEC	OM	C	N	P	K	Ca	Mg	CaCO ₃
			ds m	cmol kg ⁻¹	%	%			mg kg ⁻¹			%
		CHA	ds/m									
1	Bamyan Uni. Ag. Farm A.	8.4	0.5	29.1	0.9		51.4	24.6	92.5	4900	780	9.3
2	Bamyan Uni. Ag. Farm B.	8.3	1.3	30.4	1.1		44.8	23.7	106	5300	685	10.7
3	Mollagholam A.	8.6	0.6	26.1	0.6		48.2	22.1	86.4	5150	700	10.1
4	Mollagholam B.	8.7	0.3	25.6	0.5		44.7	19.5	94.2	5400	650	10.6

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Table 2: Origin and selected Properties of soils collected from the Bamyan centre in the Bamyan province of Central Afghanistan.

Soil ID	Soil Origin	S	Mn	Fe	Cu	Zn	Sand	silt	Clay	Textural Class
										CHAPTER 4.
1	Bamyan Uni. Ag. Farm A.	9.3	64	27	4	3	48	16	36	Sandy clay
2	Bamyan Uni. Ag. Farm B.	12.7	71	23	6	2	65	17	18	Sandy loam
3	Mollagholam A.	9.5	65	25	7	3	18	50	32	Silty clay loam
4	Mollagholam B.	7.8	67	18	5	4	19	52	29	Silty clay loam

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Table 3: Analysis of variance and regression coefficients for the effect of applied phosphorus on Mehlich 3 P in 4 Bamyan Centre soils.

R-Square	Pr>F	Coeff Var	Root MSE	M-3 P
0.93	<0.0001	16.84	2.12	12.52

Source	Df	Type II SS	Mean square	F Value	Pr>F
Soil	1	330.28	330.28	73.52	<0.0001**
R ²	1	1657.1	1657.1	368.52	<0.0001**
Parameter	Estimate	Stand Error	T Value	Pr> t	
Soil 1 2	8.960	0.60824	14.73	<0.0001**	
Soil 3 4	2.902	0.60824	14.76	<0.0001**	
R ²	0.0102	0.00052	19.2	<0.0001**	
** = significant at P ≤ 0.01, * = significant at P ≤ 0.05, and ns = non-significant					

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