

Table 2. Potato yield in the third cycle related to previous phosphate applications at El Chaupi site.

Cycle 1	Cycle 2	Cycle 3	Total P ₂ O ₅ applied	Yield, t/ha
0	0	300	300	32.39
150	150	0	300	11.32
300	0	0	300	7.90
150	150	150	450	30.45
450	0	0	450	13.21
0	300	300	600	31.20
300	300	0	600	13.43
300	300	300	900	32.63
450	450	0	900	24.08

Table 3. Effect of phosphate application on potato yield at the Santa Teresita site.

P ₂ O ₅ rate, kg/ha	Yield, t/ha
0	5.52
150	30.61
300	33.57
450	35.50

suggest that even at very high rates of phosphate application, the fixing capacity of the soils is not satisfied, and the residual benefit is low. To obtain an adequate potato yield, P application is needed every cycle. The data reported from the Santa Teresita site cover only the first cycle but illustrate equally the high fixing capacity of these soils (Table 3 and photos).

Conclusion

Phosphate fixation potential of Andisols appears to be related to the presence of different materials in the clay fraction as a result of different weathering conditions of volcanic ash. Soil dominated by humus-Al complexes seem to have higher P fixing potential, which is apparently difficult to satisfy. Nutrition management of potato in these type of soils requires a high P application every cycle due to the low P residual effect. **BCI**

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Robert E. Wagner Award Nominations Due



The Robert E. Wagner Award was established in 1988 by the PPI Board of Directors to recognize distinguished contributions to advanced crop yields through maximum yield research (MYR) and maximum economic yield (MEY) management. The MEY concept, also known as most efficient yield, can provide a solid foundation for better meeting world food needs.

The Award honors Dr. Wagner, retired President of PPI, for his many contributions to agriculture. He is widely recognized for originating the MEY management concept...for more profitable, efficient agriculture.

Last year's recipient in the senior scientist category was Dr. L.D. Bailey of Agriculture and Agri-Food Canada's Brandon Research Centre and in the young scientist division Mr. David Quipeng Zeng, Soil and Fertilizer Institute of the Guangdong Academy of Agricultural Sciences, People's Republic of China. The recipient in each category receives a \$5,000 monetary award.

The format for preparation of nominations for this Award can be obtained by contacting the Potash & Phosphate Institute, 655 Engineering Drive, Suite 110, Norcross, Georgia 30092-2837; phone (770) 447-0335, ext. 203, fax (770) 448-0439. Private or public sector agronomists, crop scientists and soil scientists from all countries are eligible. Nominations must be received by December 31, 1996. **BCI**