

The authors discuss the problem of pruning at some length but come to the wise conclusion that, "in most belts, pruning appears neither necessary nor advisable".

The shelterbelts in North Dakota averaged 16 feet in height in 1944. The chief problems noted are inadequate cultivation

on half of the belts under four years of age and livestock damage. This reviewer finds himself in hearty agreement with Messrs. Munns and Stoeckeler's concluding sentence, to wit: "The shelterbelt project has been a success".

(Reviewed by H. L. Walster)

### Crop Diseases in Peru

Every once in a while some enterprising but over-enthusiastic producer of crops is tempted to import a new variety of some crop from South America. There has just come to my desk a publication from the Agricultural Experiment Station, La Molina, near Lima, Peru, which lists the diseases of common agricultural and garden crops of Peru. Some of these diseases could be carried in the seed, some in soil sticking to the seed, and some in trash or crop residues mixed with the seed grain. Many of the diseases which Peru has we also have in North Dakota but some in different physiological races. The introduction of a new physiological race of flax rust from Peru could conceivably wipe out all of North Dakota's most rust-resistant flax varieties. The introduction of especially virulent races of diseases attacking our other now disease-resistant crop varieties would be equally fatal.

Here, then, are the diseases of some of the crops in Peru as listed by their own federal Department of Plant Pathology:

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| <b>Barley:</b>   | Loose smut, covered smut, stripe disease, spot blotch, net blotch, powdery mildew, stem rust, Ramularia leaf spot, Rhynchosporium Scald.                         |
| <b>Rye:</b>      | Stem rust.   |
| <b>Wheat:</b>    | Loose smut, stinking smut or bunt, leaf-spot, powdery mildew, root-rot, Punto negro (root rot, foot rot and black point), stripe rust, leaf rust, and stem rust. |
| <b>Oats:</b>     | Covered smut, loose smut, powdery mildew, crown rust, stem rust.   |
| <b>Flax:</b>     | Rust, pasmo, damping off, and dodder (a parasitic plant).  |
| <b>Corn:</b>     | Corn smut, Cercospora leaf-spot, Helminthosporium leaf blight, black spot, wilt, mosaic, cob-rot, corn rust, and Polisora rust.                                  |
| <b>Potatoes:</b> | Andean disease, late blight, early blight, wilt, powdery mildew, stem-rot, powdery scab, two kinds of rust, and mosaic.  |
| <b>Tomatoes:</b> | Downy mildew, wilt, mosaic, powdery mildew, blossom-end-rot, and yeast rot.  |