

WELCOME TO THE 2021 APG RESEARCH REPORT

Today, the Alberta pulse industry finds itself at a moment of opportunity. Market forces and consumer trends are bringing pulses increasingly to the attention of buyers at home and around the world. Here in Western Canada, long-anticipated pulse protein manufacturing capacity is coming on stream.

Balanced against these opportunities, our industry faces a number of risks. *Aphanomyces* has struck pea and lentil production hard over the past eight years and practical solutions remain elusive. Insect pests continue to trouble growers in many areas. Public trust in agriculture remains positive, but our industry is still subject to sometimes uninformed scrutiny from the public sphere.

This is the setting in which Alberta Pulse Growers' Research Program seeks to make a lasting contribution. In 2021, we're investing \$1.06 million to find solutions to help meet APG's core Vision: *Pulses on every farm, on every plate.*

In this report, APG-funded research projects are organized into four theme areas: Disease, Insects, Environment and Health/Value-Added.

Under each section, one or more researchers set the stage for issues and key opportunities. From there, we offer short summaries of key work completed, in progress or just beginning, under that theme area. We provide information resources we hope are of value. We also present the views of APG Directors on why each theme area is important to them.

To conclude the report, a full listing of recent projects, project leads and funding sources is presented.

In addition to the projects' aims and outcomes, this report highlights the Alberta pulse research community and the roles played by growers, APG staff, scientists, agronomists and many others. We hope you enjoy meeting these individuals and seeing their expertise and passion shine through.

When we consider the many opportunities open to pulse growers, despite the challenges the industry faces, we can't help but be optimistic. Research funded by APG is, and will remain, a key part of our industry's bright future.



"I love how each of us come together - the scientist, the farmer and the APG Board - to push an idea or research area out to be worked on. This process has definitely changed my perspective as a scientist. I want to focus on ideas that will be fruitful and have achievable targets, as the funding is coming from growers' hard-earned dollars. Strategic planning and ideas exchanged with other scientists keep the research team on our toes, planning and looking ahead for a small problem that could become a bigger problem in the future."

Dr. Jagroop Gill Kahlon
Research Officer
Alberta Pulse Growers