BC Agricultural Climate Action Research Network

BC AGRICULTURAL DATA PROTOCOLS WORKSHOP

February 23-24, 2023

Defining collective approaches for measuring soil organic carbon, GHG's and co-benefits in BC agricultural production systems in partnership with the BC Living Lab.

AGRICULTURAL CLIMATE SOLUTIONS
BC LIVING LAB

AGENDA

Thursday, Feb. 23: Building common approaches through the BC Living Lab

TIME	AGENDA ITEM
8:45 am	Arrival, coffee
8:55 am	Introductions & overview
9:05 am	Approaches to measuring soil organic carbon • *Soil organic carbon measurements for the BC Living Lab: Agriculture & Agri-Food Canada's approach,* Kirsten Hannam, AAFC • *Challenges of scaling soil carbon data over space and time,* Sean Smukler, UBC
9:45 am	Break out discussions (by commodity grouping) • Modifications and additions to the AAFC national methodology for specific soils/conditions and commodities
10:35 am	BREAK
10:45 am	Nitrogen budgeting approaches to estimate N2O emissions • *Nutrient budgeting: experiences from the field,* Dru Yates, ES Cropconsult (virtual) • *Farm gate and soil budget measurement methods,* Shabtai Bittman, AAFC (virtual)

	• Plenary discussion
12:30 pm	LUNCH
1:00 pm	**Co-benefits: Focus on soil health** • *Choosing soil health measurements for large-scale adoption,* Charlotte Norris, SHI/NRCAN
1:30 pm	**Approaches to soil health evaluation in the BC Living Lab** • *Soil microbiology analysis: what aspect of 'soil health' do we care about?* Miranda Hart, UBCO (virtual) • *Prevalence of soil-borne pests and diseases in relation to soil health,* Tom Forge, AAFC
2:30 pm	Break out discussions (by commodity grouping)
2:50 pm	BREAK
3:00 pm	**Integrating socioeconomics into the BC Living Lab,** John Janmaat, UBCO, and Harmony Bjarnason, ACARN
4:30 pm	**Wrap up for the day**

Friday, Feb. 24: Extending Beyond the BC Living Lab

TIME	AGENDA ITEM
8:00 am	Breakfast available
8:55 am	Overview of the day
9:05 am	**Federal and provincial emissions reporting requirements** • *Emissions reporting for agriculture: an overview of methods and data requirements,* Dan MacDonald, AAFC (virtual) • *Ministry of Agriculture and Food provincial priorities, program delivery, & reporting requirements,* Greg Rekken, Ministry of Agriculture • Plenary Discussion
10:25 am	BREAK
10:40 am	**BC Ministry of Agriculture soil initiatives** • *Soil health and carbon sequestration protocol for BC,* Greg Rekken, MAF (presenting on behalf of Dieter Geesing) • *Regenerative soils technical working group draft recommendations,* Greg Rekken, MAF

11:30 am	Break out discussions • Feedback and suggested improvements to the TWG recommendations • Opportunities for MAF collaboration with the BC Living Labs
12:30 pm	LUNCH
1:00 pm	Technological tools to improve data collection, analysis, and access • *Remote sensing for evaluating health of agricultural ecosystems,* Bing Lu, SFU (virtual) • *An introduction to LiteFarm,* Kevin Cussen, UBC • *Agrilyze: agricultural spatial data foundations,* Jonathon McIntyre, i-open/Agrilyze
2:00 pm	BREAK
2:15 pm	Data stewardship & data governance • *Data stewardship and data governance: options for BC agricultural data,* Hannah Wittman and Sarah-Louise Ruder, UBC
3:00 pm	Break out discussions • Advancing data sharing in BC agricultural research: barriers, opportunities, and next steps
4:00 pm	Review of action items and wrap-up

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