



Merge Impact Nutrient Transparency (MINT)

Healthier soils, created through regenerative practices, contain a diversity of microorganisms, organic matter, and minerals, which are all essential for providing crops with the necessary nutrients they need to grow and thrive. As a result, crops grown in healthy soils are often more nutrient-dense and flavorful. Merge Impact blockchain data provides consumers with proof of nutrient measurements and their correlation to climate positive production practices and outcomes.

WHAT IS BLOCKCHAIN? HOW DOES IT IMPACT MINT?

Using blockchain for MINT ensures collected data is transparent, unaltered, and valid to be used for brand claims, compliance to nutrient standards, and/or consumer demand. Brands and consumers can leverage blockchain verified data to make informed decisions about their food. Merge Blockchain provides the needed integrity to prove climate-positive production directly correlates with higher quality nutrition through health, flavor, & efficiency.

WHO IS MERGE IMPACT?

As the first and only blockchain-powered agricultural measurement and data solution, Merge Impact connects brands to fully verified regenerative and organic supply chains while providing regenerative and organic farmers with comprehensive field-level measurement and ecosystem services. With Merge Impact's tools that help to measure, validate, and monetize climate initiatives, sustainability goals are well within reach. Here at Merge Impact, we're excited to go on this journey with you. Whether you're a farmer, a brand, or a consumer, supply chain transparency and trust are the future of food.

About MINT

BACKGROUND AND DESCRIPTION

MINT is a comprehensive standard for measurement, verification, reporting, and marketing the nutrition outcomes derived from regenerative agriculture implementation. Merge Impact data is analyzed and reported to correlate positive climate outcomes with positive human nutrition outcomes. Our thesis is that consumers will and do want to make choices that benefit their health as well as the health of the planet.

Data collected for the MINT may be customized to specific needs of consumers, brands, and/or processors. Initially, Merge Impact will measure baseline soil data and nutrient profiles of crops to enable brand messaging around nutrient density and regenerative agriculture practices.

SCOPE

Merge Impact has created four (4) protocols for nutrient transparency to be used with corresponding soil data from the [Earth Impact Soil Protocol \(EISP\)](#):

- ✓ Grains/Oilseeds/Legumes/Pulses
- ✓ Fruit/Vegetable/Permanent Crops
- ✓ Non-Dairy Animal Proteins
- ✓ Dairy Products

Compliance reporting, ecosystem outcome reporting and field task transparency, in combination with using aligned expert service providers/organizations to collect, analyze and verify data. MINT is able to correlate to additional protocols with transparency:

- ✓ [EISP](#)
- ✓ [MIST](#)

Considerations

Additional measurements may be requested to be included in a custom protocol. MINT data may be utilized to satisfy product claims, compliance, and other high integrity data needs.

Protocol Outcomes

GRAINS/OILSEEDS/LEGUMES/PULSES

SUMMARY

Protein and fiber are cool, but what happens when we understand the connection between soil and nutrition content in our key ingredients? MINT connects crop production systems to their nutritional impact. Use our standard nutrient analysis to capture ingredient nutrition as close as it gets to the source.

VALUES & MEASURES

- ✓ Total polyphenols, total antioxidants, 6 crop mineral levels
- ✓ Early look at downstream impact
- ✓ Metabolomics



FRUIT/VEGETABLE/PERMANENT CROPS

VALUES & MEASURES

- ✓ Total polyphenols, total antioxidants, 6 crop mineral levels
- ✓ Field to Fork connections
- ✓ Metabolomics



SUMMARY

Specialty crops systems are some of the most input intense production systems in food. Using MINT, producers and brands can properly connect nutrition outcomes from regenerative production systems from field to fork.

NON-DAIRY ANIMAL PROTEINS

SUMMARY

We are what we eat...eats. Higher quality animal protein is an easy claim to make. Proving your quality is connected to impact takes the next step in creating a connection that shows the true value of animal impact. By connecting the source of your animals' feed to the end product, MINT aligns product quality with a real, transparent climate impact value. The most transparent animal protein standard available in the marketplace - designed to be compatible with certification needs.

VALUES & MEASURES

- ✓ EFAs, Protein, Iron, Vitamin B12, Zinc, Vitamin D
- ✓ Connect to Local Needs
- ✓ Metabolomics



DAIRY PRODUCTS

VALUES & MEASURES

- ✓ Protein, Calcium, Omega 3 EFA, Vit A & D
- ✓ Metabolomics



SUMMARY

The greatest influence on dairy quality is intake. As dairy products are produced and measured using MINT, results are connected to climate outcomes associated with the feeds and fields used for production. Merge helps producers and brands form connections between high quality dairy products aligned with consumer values.