Updates From Emerging Regenerative Ag Certifications

December 14th, 2022

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Traditional Medicinals
Trayak
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Vanguard Renewables
White Leaf Provisions
Whole Foods Market
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Wolf & Associates, Inc.

CLIMATE COLLABORATIVE™
Commit. Act. Impact.

ANALYSIS BY COMMITMENT

Agriculture

(92 responses)

Has your company taken steps to integrate regenerative agriculture into its supply chain?	Total Number	Percentage
We have made the commitment but have not begun work on it.	4	4%
We have made the commitment and are in the midst of planning how we will take steps to implement it.	15	16%
We have completed the planning process and have begun taking steps on implementation.	12	13%
We have made good progress in implementing the commitment.	25	27%
We have taken robust steps to implement the commitment and are seeing results.	33	36%
Is your company quantifying emissions reductions from its regenerative agriculture efforts?	**Total Number**	**Percentage**
Yes	26	29%
No	63	71%

SPEAKERS

Caitlin Oleson
Director of Operations and Programming,
Climate Collaborative

Emily Moose
Executive Director,
A Greener World

Adam Kotin
Managing Director,
Soil Carbon Initiative

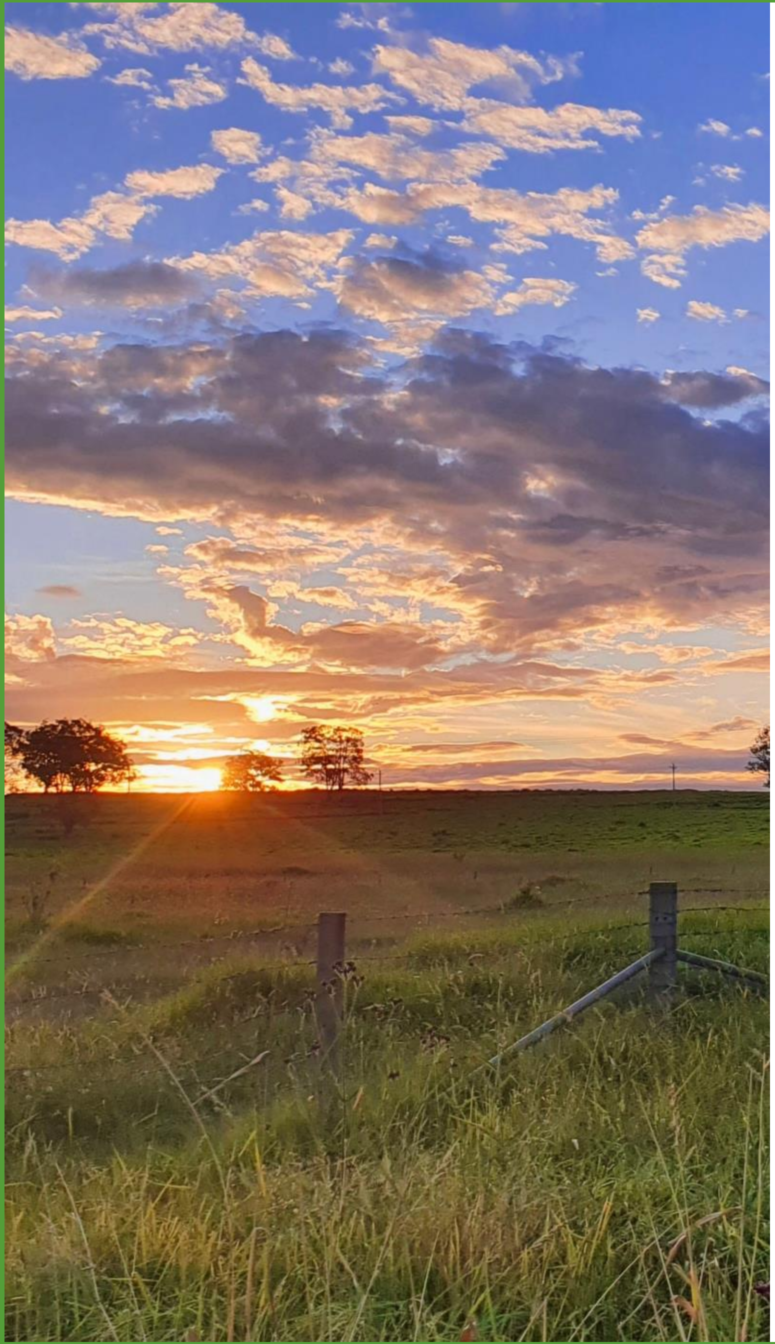
Doug Peterson
Chief Science and Standard Officer,
Regenified

SOIL & CLIMATE HEALTH INITIATIVE VERIFIED™

The Soil Carbon Initiative is a <u>commitment & verification program</u> focused on <u>rapidly scaling acres under regenerative management</u>, starting with soil health.

We exist to deliver <u>3rd party verified</u> regenerative outcomes:

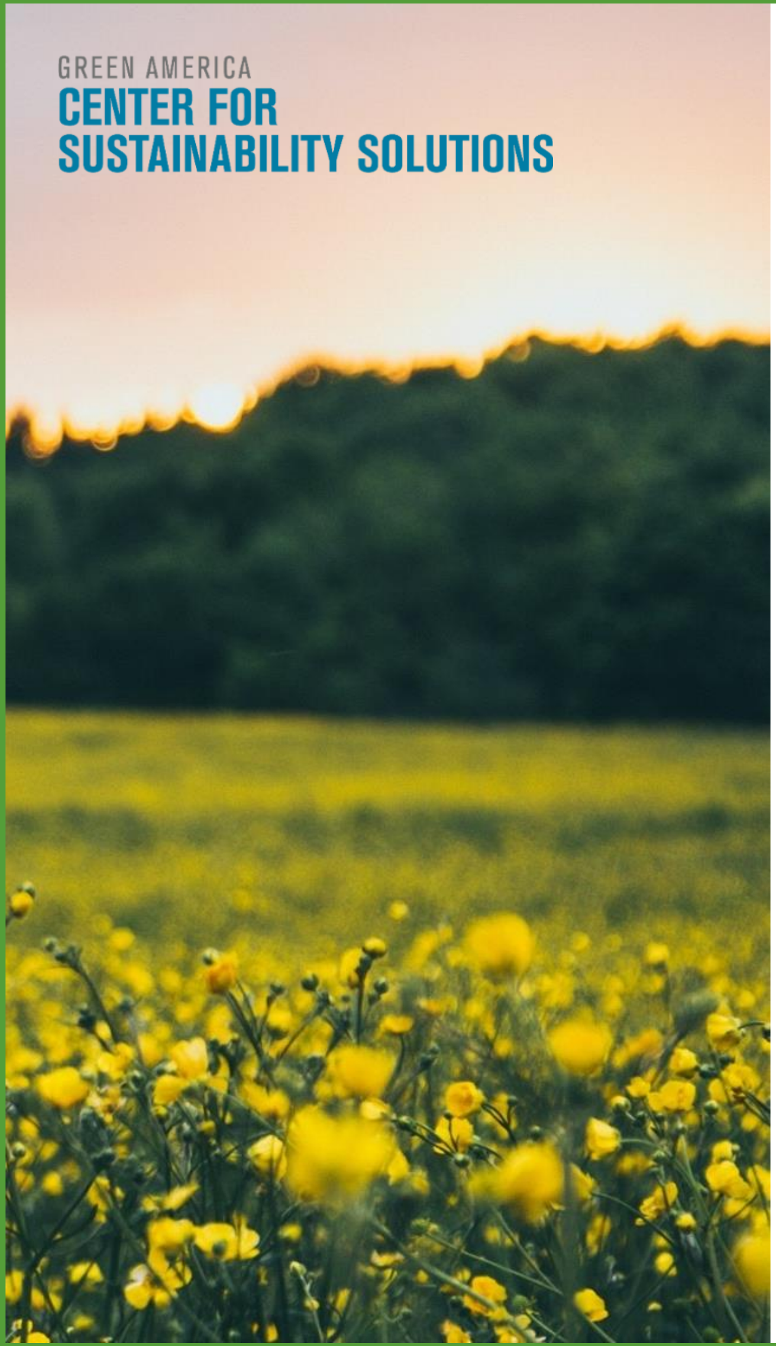
Soil health, soil carbon, biodiversity, improved water quality, climate resiliency and greater farm and rural prosperity.



The Challenge for Companies

What's needed to bring reg ag to market?

- **Credibility** – ensuring transparency & 3rd party verification
- **Roadmaps** – frameworks for setting tangible goals
- **Data** – tracking outcomes and measuring progress
- **Finance** – getting funds to the field
- **Networks** – connections to growers and partners
- **Communication** – engaging stakeholders and consumers with your regenerative ag story



Supported by a Broad Network

Independent, Nonprofit, 3rd Party Verified

- Guided by the SCI **Soil Committee of farmers and soil scientists**
- **Phase I SCI Design Team**: Ben & Jerry's, Danone, Green America, Megafood, NSF, The Carbon Underground, True Grace
- Formal public **comment period completed**; pilots underway
- Collaborators in the Soil & Climate Alliance include:
  - **Over 150 farmers, companies, suppliers, retailers, scientists, NGOs and investors**
  - Large & small; US-based and global

Design Criteria

Creating Impact at Scale

- **Welcomes the entire agriculture system** – conventional to organic.
- **Measures outcomes**, never dictates practices
- **Never exclusive** – interoperable with other standards
- **Independent verification** by 3rd party
- A **continuous improvement** standard
- Emphasizes making it **work for producers** agronomically & economically
- Credits what **experienced regenerative farmers** have achieved

Farm Plans Based on Six Management Pillars

- Minimizing Soil Disturbance
- Living Roots in the Ground Year Round
- Maximizing Diversity Above and Below Ground
- Appropriate Integration of Livestock
- Reducing Synthetic Inputs
- Learning

Outcomes Tracked via On-Farm and Lab Testing

Test	Measurement	On-Farm Verification	Lab Verification	Frequency
Soil Carbon	Dry combustion	N/A	Dry Combustion TOC/TC	BASELINE THEN EVERY 3 YEARS
Haney Soil Health Assessment	Soil nutrients available to soil microbes	N/A	Full panel; **early indicators coming soon!!**	ANNUAL; INCLUDES INTERPRETIVE GUIDANCE
Soil Organic Matter	Soil Organic Matter	Soil Color, soil smell	SOM (%LOI); included in Haney (above)	ANNUAL
Hardness/Compaction	Compaction	Penetrometer	N/A	ANNUAL
Water Infiltration	Water Holding Capacity	NRCS Infiltration Dual Head Infiltrometer	Pressure Plate	BASELINE IN LAB, THEN Every 3 Years; IN FIELD ANNUAL
Aggregate Stability	Soil aggregates	In field Slaking Test	ARS WET AGGREGATE TEST	EVERY 3 YEARS IN LAB; ANNUAL IN FIELD
Microbial Activity	Activity of microbial community	Underwear Decomposition (smallholder farms only where PLFA not available)	PLFA	EVERY 3 YEARS LAB, ANNUAL FARM/FIELD
Chemical and Synthetic Input, Fertilizer	Declining use towards elimination	Inventory & Audit	Audit	ANNUAL
Biodiversity Field Farm Assessment (Insect, Birds, Pollinators etc.)	Increases in above ground diversity	Field & Farm Counts; transects to line up with soil sampling	Future Phase	
Nutrition	Nutrition Per Acre	In Process	Future Phase	

The Acre Commitment

- Farm-Level & Company-Level Programs require commitments to **support the transition of an increasing number of acres over time**
- **Acre footprints** are calculated based on:
  - ***Farm*** - Total SCI Enrolled Acres on the Farm,
  - ***Company*** - Total Acre Footprint of the Major Agricultural Ingredients within the Enrolled Product Portfolio
- **Acre Transition Milestones** are to be reached to meet and maintain Soil & Climate Health Verification label
- Company can use **SCI's Acre Calculator** tool (based on global, North America, and U.S. data; can also input own data)

Four Options for Meeting Acre Commitments

Designed for diverse supply chains

ANY ACRE

SCI "matches" Company with any SCI Enrolled Farmed Acres (any crop & any supply shed)

COMMODITY ACRES

SCI "matches" Company with SCI Enrolled Acres that match a Major Ingredient in the Company's Footprint

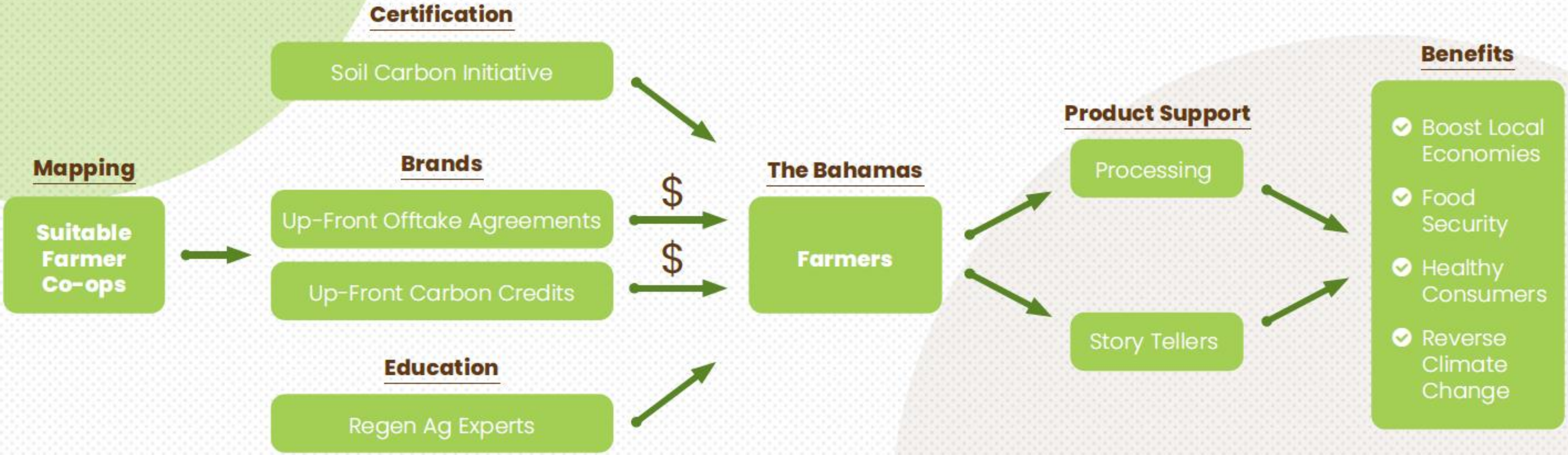
SUPPLY SHED ACRES

SCI "matches" Company with SCI Enrolled Acres that (1)match a Major Ingredient, and (2) is sourced from the Company's supply shed

DIRECTLY SOURCED ACRES

Company sources Enrolled ingredients from their Acre Footprint directly from SCI Verified Farmed Acres

REGENERATIVE HUBS: **THE BAHAMAS**



Front of Pack Logo

Use of Logo/Claims	**Conveys verified regeneratively-grown ingredients in the product**
Similar Programs	Organic/ROC, Non-GMO Project Verified, Fair Trade Certified
Requirements	**70% of ingredients** in product produced on acres verified to SCI Farm Standard
Sourcing Type	**Direct**: Direct or full traceable purchasing relationship with enrolled farms

Back of Pack Logo

Use of Logo/Claims	**Conveys commitment to regenerating farm acres where outcomes are 3rd party verified: "*Supporting farms on their regenerative pathway*"**
Similar Programs	B Corp; 1% for the Planet
Requirements	Enroll in and commit to program; Calculate Acre Footprint; Submit Company Commitment Plan; Support SCI-enrolled farm acres equivalent to Acre Commitment
Sourcing Type (*can be a mix of these*)	**Direct:** Direct purchasing relationship with farms that enroll in SCI **Mass Balance or Supply Shed:** Purchases made via intermediary (e.g., processor, co-op), but enough of their farms enroll in SCI to equal volume purchased **"Acre Match":** No visibility to farm level, can match with acres of any crop

Pilot Scope & Eligibility

ELIGIBILITY:

- Companies interested in 3rd party verified regenerative or soil health claims
- U.S. farm cooperatives & intermediaries (suppliers, retailers)

SCOPE:

- **Identify brands or products** to start with
- Determine which **farms & ingredients** to focus on
- Calculate your total **acre footprint**
- Determine label focus: **front or back of pack**
- **Make acre commitments** & company plan to:
  - Engage & support farms
  - Implement SCI across 100% of brand/company acres in 10 years
- **Provide feedback** & advice to the SCI team
- **Timeline** depends on pilot scope. Estimate: 6-10 months

SOIL & CLIMATE HEALTH INITIATIVE VERIFIED™

Adam Kotin
Managing Director, Soil Carbon Initiative

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Certified Regenerative by A Greener World

Regenerative certification for verified positive impact

Regenerative Agriculture: A set of planned agricultural practices that ensure the holding is not depleted by agriculture practices, and over time the soil, water, air and biodiversity are improved or maintained to the greatest extent possible.

About A Greener World

- An independent, nonprofit certifier, AGW identifies, audits, certifies and promotes practical, sustainable farming systems by supporting farmers and ranchers and informing consumers.
- Working with over 6,000 farms across 3 million acres globally
- Guarantees positive and measurable impacts on the environment, society and animals with credible, third-party certification
- AGW's growing family of trusted, world-renowned certifications includes:

ANIMAL WELFARE APPROVED BY AGW

CERTIFIED GRASSFED BY AGW

CERTIFIED NON-GMO BY AGW

CERTIFIED REGENERATIVE BY AGW

Certified Regenerative by AGW Development

Scope and History

- 5+ years of standards development (since 2017)
- 18+ months working with pilot participants (since 2020)
- Pilot farms on 5 continents: Australia, Africa, North and South America and Europe
- Products included fiber, meat, poultry, eggs, dairy, crops/cereals, vegetables, fruits, flowers, herbs, and CPG products

Program Status

- Pilot complete, program now fully open and accepting applications
- Standards posted for public comment in April 2022, final version posted in August 2022
- First farms have been certified with announcements of additional farm certifications ongoing

Looking Ahead

- New products in the CPG space
- Technical resources on assessing soil health and biodiversity
- Options for progress reporting using data and verified metrics

A GREENER WORLD

CERTIFIED REGENERATIVE by AGW

	Certified Regenerative by AGW
ANIMAL WELFARE AND HUMAN HEALTH	
Ensures responsible, high-welfare antibiotic use	✓
Prohibits concentrated animal feeding operations (CAFOs)	✓
Animal health and welfare, including independent slaughter standards	✓
Requires in-depth biodiversity plan with continual improvement	✓
COMMUNITY AND SOCIAL	
Requires emissions reductions	✓
Requires financial planning	✓
Social standards required, addressing living wages	✓
Minimizes off-farm inputs, encourages regenerative producer networks	✓
ENVIRONMENT	
Requires comprehensive risk assessment of air, water and soil	✓
Prohibits deforestation and extractive practices, requires low- or no-till practices	✓
Prohibits agrochemical use on crops which will be directly consumed	✓
Prohibits genetically modified organisms (GMOs)	✓
TRANSPARENCY	
Third-party certification with publicly available standards	✓
Third-party verification of regenerative plan progress	✓
Ongoing inspection of entire supply chain required	✓
Country of Origin Labeling (COOL) required	✓

Key Features & Benefits

- Whole farm approach
- Key Principles
- Accessibility
- Goal setting
- Partnership
- Market access

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Key Principles

Covers a range of sustainability indicators including:

- Soil
- Water
- Air
- Cropping systems
- Livestock
- Biodiversity
- Buildings and infrastructure
- Human
- Financial

CERTIFIED REGENERATIVE BY AGW

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The Regenerative Plan

- Part of the Certified Regenerative by AGW Standards
- Written by the Steward and the Qualified Expert of their choice
- Written for a minimum of 5 years
- Reviewed annually and as needed
- Assessed/accepted by AGW Review Panel
- Two Parts:
  - The Regenerative Assessment
  - The Regenerative Management Plan
- Template available

Risk Assessment, Testing and Monitoring

- Stewards and Qualified Experts assess the risks on the holding, and how these will be measured/mitigated
- There are a range of tests that can be incorporated
- Dependent on the specific risks, targets and outcomes as detailed in a **holding's** individual **Regenerative Plan**

REGENERATIVE RISK MATRIX:

Part of Ecosystem	Analyzed Risk (High, Medium, Low)	Action Planned	Monitoring	Page #
Soil	*Example: Erosion on slopes when soil is bare.*	Use of cover crops	Visual Soil Assessments	*List page covered in plan*
Water	*Example: Silt- there are high risk areas of the farm for causing runoff*	Exclude animals from grazing	Checking fences	*List page covered in plan*

Examples of Accepted Tests (Annex B)

- Soil: Soil carbon, soil organic matter, worm counts, percolation testing, soil pit assessments
- Water: Consumption, dissolved oxygen (DO), turbidity
- Air: Dust and particulate matter, ammonia, emissions
- Human: Performance reviews, living wages, fair measures
- Biodiversity: Bird counts, wildlife counts, square transects, line transects

Examples of Tests, Methods and Assessments	Resources and References
Soil Organic Matter Soil Carbon Soil Biology and Biodiversity Macro- and Micronutrients Worm Counts per Square Meter Percolation Testing Soil Pit Assessments: signs of roots at depth, anaerobic conditions, signs of compaction, class of soil structure	AHDB Principals of Soil Management AHDB Measuring and Managing Soil Organic Matter AHDB Testing Soil Health AHDB Soil Assessment Methods Cornell Comprehensive Assessment of Soil Health Guidance on Assessments by Dr. Jennifer Dungait Example of Laboratory Testing Suites

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Soil Health

Why & How

- Healthy soil as nutrient cycler and living system
- Water absorption and filtration
- Carbon sequestration—but not JUST carbon!
- Certified Regenerative by AGW requires at least two metrics for soil health, including soil biodiversity

Biodiversity

Why & How

- Biodiversity increasingly recognized as important sustainability metric
- Existing certifications do not effectively measure or validate biodiversity
- Regenerative Plan addresses protection of threatened or endangered species and their habitats
- Baseline and targets for biodiversity improvement and invasive species management

Certification Process Overview

CERTIFIED REGENERATIVE BY AGW

Read Standards	• Available at agreenerworld.org
Application	• Apply online and pay application and plan review fee
Eligibility Check	• Initial screening, typically prior to plan submission
Plan Submission	• Written by or with a Qualified Expert
Plan Review	• Completed by AGW's expert Review Panel
Audit	• Completed by a fully trained and highly qualified AGW auditor
Audit Review	• Non-compliances are addressed
Approval & Certification	• Final audit review and approval by AGW; certificate issued

What's Special about Certified Regenerative by AGW?

- Audited, high-welfare animal management
- Unique in requiring soil health and biodiversity metrics for all producers
- Comprehensive risk analysis
- Rigorous standards with meaningful prohibitions including: no deforestation, no GMOs, no CAFOs, no routine antibiotic use
- Country of origin labeling required
- Scientific tool that generates data
- Management tool that gives stewards feedback on management methods

CERTIFIED REGENERATIVE BY AGW

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Certified Regenerative by AGW is a great fit for….

- Farms, retailers, brands, businesses and others seeking validation of regenerative and sustainable practices
- Structured transition to more sustainable production
- Demonstrating progress across a wide range of metrics and impact areas
- Land stewards (private, public, non-profit or other) formalizing sustainable land management strategies
- Consumers looking for products that have a verified positive impact

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Full-Service Certification

- Engagement throughout the supply chain
- Competitive fee structure covering farms, further processors and brands
- Options and design/approval support for on-pack logo use and “made with” claims
- Technical support
- PR and marketing support, one-on-one customized trainings and webinars for retailers, brands, distributors, etc.
- Listing on AGW’s popular directory of certified farms and products
- One audit, multiple market-leading claims

ANIMAL WELFARE APPROVED BY AGW

CERTIFIED GRASSFED BY AGW

CERTIFIED NON-GMO BY AGW

CERTIFIED REGENERATIVE BY AGW

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CERTIFIED REGENERATIVE BY AGW

- Rigorous and tailored
- Steward-led, backed by qualified expertise
- Accessible
- Supports change in partnership
- Accountable transition
- Meaningful assurances across a broad range of metrics

Questions? Get in touch:

Terrebonne, OR 97760
1-800-373-8806
info@agreenerworld.org

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Regenerative Agriculture

&

Regenified™

Regenerative Agriculture Movement

- Consumers are looking for products that have meaning for them.
  (human health, environmental health, etc.)
- Food, fiber and fuel companies are looking for ways to confirm production methods and source verify that it has the items that its customers want
- Many farmers want to use practices that are good for the environment but need to find a way to pay for those practices.
- Our huge complicated food supply chain is very disconnected.
- Need for a knowledgeable group or organization to reconnect everyone.
- Must be someone who understands what regenerative agriculture is.

Regenified™

Regenified™

It's a mark of good stewardship of the land and the earth.
It represents the belief that when you nourish the soil, everything flourishes.
From the ground up.

Regenified™

Our mission

Transition the world's supply chain to regenerative agriculture by offering the most reliable standards and verification services.

How we do it

Educating consumers about the benefits of Regenified, influencing their purchasing decisions

Providing instant recognition to supply chain players, paving the path for greater reward

Inspiring and supporting farmers along their regenerative journey, encouraging long term adoption and expansion

Ground-truthing driven by transparency and inclusivity, welcoming farmers regardless of limiting factors in their regenerative journey

Regenified™

6-3-4™

VERIFICATION STANDARD

FOR REGENERATIVE AGRICULTURE

UPDATED: 19 August 2022

WWW.REGENIFIED.COM/6-3-4-VERIFICATION-STANDARD

Regenified™

Farm/Ranch Regenerative Plan

- Outlining what they will do to address the 6 principles/3 rules in a logical step by step process for all land uses on their operation.
- Electronic or printed
- Include corresponding aerial photography

Very comprehensive yet easy to understand

Both practice based and outcome based

- **6 Principles of Soil Health**

(Context, Disturbance, Armor, Diversity, Living Root, Livestock)

- **3 Rules of Adaptive Stewardship**

(Compounding, Diversity, Disruption)

- **4 Ecosystem Processes**

(Water Cycle, Mineral Cycle, Energy Flow, Community Dynamics)

Baseline In-field Evaluation and Soil Testing

- Context (production goals, crop types, education groups)
- Disturbance (tillage, pesticides, fertilizer, grazing/rest periods)
- Armor (ground cover, plant canopy)
- Diversity (crop rotation, plant types, livestock and wildlife)
- Living Roots (% of growing season/year)
- Livestock Integration (% of acres with livestock integrated)

Regenified™

Baseline In-field Evaluation and Soil Testing

- Water Cycle (aggregate stability, infiltration)
- Mineral Cycle (applied fertilizer, WEON)
- Energy Flow (living plant canopy, WEOC, MAC)
- Community Dynamics (plants, insects, wildlife, PLFA)

Review Board Scoring and Tier Ranking Process

Based on percent of operation acres that are fully applying regenerative practices.

Tier 1(0-20%)

Tier 2(20-40%)

Tier 3(40-60%)

Tier 4(60-80%)

Tier 5(80-100%)

Tier 2 and above are qualified to begin using the seal.

No more than 3 years are allowed at any one Tier.

In 2022 Regenified has been quietly focusing on verifying acres and scaling operations, preparing for big exciting announcements in Q1 of 2023

5,000,000 approximate acres in a pipeline with 100,000s of acres verified

Several leading food outlets including supermarkets and direct marketers

Worldwide audiences and a global marketing plan

Featuring in America's shopping basket in the next 6-12 months

Regenified™

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DISCUSSION

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