Farmer Panel 1: Growing CBD Hemp for Direct Sales

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- Certified Organic Hemp
- Diversified
- Permaculture
- Korean Natural Farming
- Soil Food Web-Living Soils
- Regenerative Agriculture
5 Core Principles of
REGENERATIVE AGRICULTURE

- MINIMIZE SOIL DISTURBANCE
- KEEP THE SOIL COVERED
- INTEGRATE LIVESTOCK
- MAXIMIZE CROP DIVERSITY
- MAINTAIN LIVING ROOT YEAR-ROUND

Increase biodiversity
Enrich soils
Improve watersheds
Provide ecosystem services
Reverse global climate change
HOW TO KEEP QUALITY HIGH & COSTS LOW

- Soil testing
- Microbe Herding – Compost and Teas
- Fermented Plants (fertilizer and IPM)
- Cover cropping
- No till
- Carbon Farming
<table>
<thead>
<tr>
<th>Analysis</th>
<th>Result</th>
<th>Optimal</th>
<th>Analysis</th>
<th>Result</th>
<th>Optimal</th>
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<tbody>
<tr>
<td>Soil pH</td>
<td>7.5</td>
<td>5.5-6.8</td>
<td>Sulfur</td>
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<tr>
<td>Buffer pH</td>
<td>4.0</td>
<td>3.0-4.5</td>
<td>Boron</td>
<td>2.5</td>
<td>1.7-2.6</td>
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<td>Organic Matter</td>
<td>0.8</td>
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<td>Copper</td>
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<td>K Saturation</td>
<td>15.2</td>
<td>2.0-4.0</td>
<td>Iron</td>
<td>175</td>
<td>8-40</td>
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<tr>
<td>Mg Saturation</td>
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<td>10-20</td>
<td>Manganese</td>
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<td>Ca Saturation</td>
<td>81.9</td>
<td>50-70</td>
<td>Zinc</td>
<td>24.6</td>
<td>3-6-10.9</td>
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<td>Na Saturation</td>
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<td>Sodium</td>
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<td>K/Mg Ratio</td>
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<td>Soluble Salts</td>
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<td>Potassium</td>
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<td>Magnesium</td>
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<tr>
<td>Calcium</td>
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<td>2200-3000</td>
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</table>

**Soil Texture:**
- Clay: 15%
- Sand: 72%
- Silt: 13%

**Texture:** Sandy Loam

**Interpretation:**
- Very High
- High
- Good
- Medium
- Low

**Cation Exchange Capacity**

**Extraction method**
"A system of design that provides all of the needs for humanity in a way that benefits the environment."

Permaculture Development Model:
- Conscious Consumption
- Cyclical Economy
- Biodynamic Planting
- Holistic Animal Management
- Completing the Hydrological Cycle
- Soil Food Web Repair
- Integrative Appropriate Technology
- Low Impact Infrastructure and Dwelling Development
- Fair Share Economics
- Social Inclusion
- Regenerative Educational Outlets and Models
- Natural and Cooperative Living
- Creative Human Interaction
- Ecological Design

Permaculture Principles:
- Animal Systems
- Earth Resources
- Aquaculture
- Water
- Soils
- Natural Building
- Human Nutrition
- Earthworks
- Local Community
- Renewable Energy
- Cold Climate
- Trees & Their Energy Transactions
- Humid Tropics
- Design Principles
- Dryland Strategies
- Pattern Understanding
- Design Strategies
- Earth Systems

Permaculture Research Institute
Permaculturenews.org
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