


***BHN, Investing In Your Success
T3: Technology, Tools, Training***

T3: Technology, Tools, and Training

- Huma Gro[®] App (android version)
- BHN-University – Certified Crop Advisor Training The logo for Certified Crop Adviser, featuring a stylized green plant growing from a brown soil mound, with the text "CERTIFIED CROP ADVISER" in a white box to the right.
- SharePoint[®] Training Site – Huma Gro[®] Product & Crop Wikis

Huma Gro® Android App

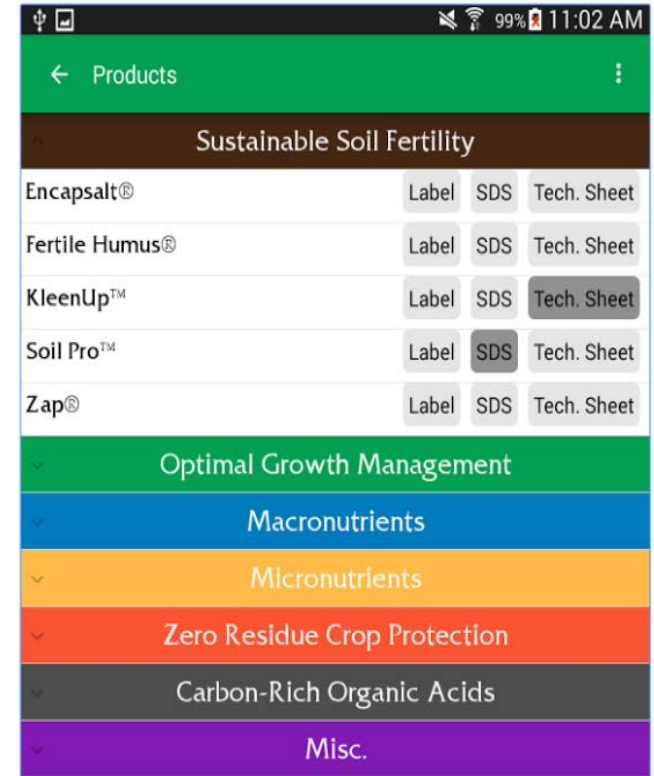


← Mixing

Open Instructions

Sort By: Product pH

Best-Bale®	8.5 - 8.0
Start-L™	8.5 - 7.5
Surf-Max®	4.0 - 3.5
Fulvi Pro®	2.5 - 1.5
Huma Burst®	0.0 - 0.0
Huma Pro®	9.0 - 8.0
X-Tend®	9.5 - 8.0
X-Tend® B	9.5 - 8.0
2-16-16™	7.5 - 6.5
38 Special®	7.6 - 6.6
Buffer K™	7.0 - 8.0
C-phos™	1.0 - 0.3
Lucky 7®	4.2 - 3.2
NZ-Phos™	1.0 - 0.0
Sil-K™	15.0 - 14.0
Super Nitro®	8.0 - 7.0
Super Phos®	1.0 - 0.1
Super Potassium™	16.7 - 15.7
Z-Phos™	1.8 - 0.8
Activol® (Micro F™)	2.4 - 1.4
BreakFree™	0.0 - 0.0
Breakout®	2.7 - 1.7
Crop-Gard®	2.6 - 1.6
D-Fend®	2.0 - 1.0
Golden Pro™	0.6 - 0.3
Jackpot® (Yield-Max™)	15.5 - 14.5
Sili-Max™	12.5 - 11.5
Vitol®	2.8 - 1.8



Huma Gro® Android App



← Foliar Application Calculator ⋮

Please Select:

Location: +	Field 45
Crop:	Cantelope
Stage:	Post Transplant
Area(Acre):	0.0

⊙ ○ ○ >

← Foliar Application Calculator ⋮

Enter Lab Data Foliar Analysis

Enter values indicated in % or ppm

N	0.0	%
P	0.0	%
K	0.0	%
Ca	0.0	%
Mg	0.0	%
S	0.0	%
Fe	0.0	ppm
Zn	0.0	ppm
Mn	0.0	ppm
Cu	0.0	ppm
B	0.0	ppm

< ○ ● ○ >

← Foliar Application Calculator ⋮

Total Huma Gro® Product Required

Recommended foliar application rates given in ounces per acre and total gallons required.

		Ounces Per Acre:	Total Gallons Required:
N	Super Nitro®	-	-
P	Super Phos® (Phos-Max™)	-	-
K	Super Potassium™	-	-
Ca	Calcium	-	-
Mg	44 Mag®	-	-
S	Sulfur	-	-
Fe	Iro-Max™	-	-
Zn	Z-Max®	-	-
Mn	Managanese	-	-

< ○ ○ ● >

Training

- BHN-University (Certified Crop Advisor)
 - Increase Knowledge, Increase Performance
 - 14 learning modules – online – anytime / anywhere





BHN University

- Home
- Documents
- Recent**
- Pictures
- Tasks
- LMS365 | Course Creator & Catalog
- LMS365 | Learning Module Builder
- LMS365 | SCORM Player
- Site Contents
- EDIT LINKS

Course Catalog

- All
- CCA

Click to edit

- All Available
- Pending Approval
- Enrolled
- Required
- Optional
- Completed



Preparing For The International CCA Exam

Category: CCA
Type: e-Learning
Number of Enrolled Users: 7





Preparing for the International CCA Exam

- Home
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 - Trust LMS365 | SCORM Player
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- EDIT LINKS

My Learning Modules

1. Plant & Soil Basics	0%	100%	⏸
2. Soil Testing & Plant Tissue Analysis	0%	100%	▶
3. Nutrient Sources	0%	100%	⏸
Continue Attempt			
4. Nutrient Placement & Timing	0%	100%	▶
5. Soil & Water Management (A)	0%	100%	⏸
6. Soil & Water Management (B)	0%	100%	▶
7. Soil & Water Management (C)	0%	100%	▶
8. Soil & Water Management (D)	0%	100%	▶

Menu

- CCA1b_Soil Testing Plant Tissue...
- 1. Cover slide
- 2. WHAT IS SOIL TESTING?
- 3. DIFFERENT LABS...
- 4. PREDICTIVE VS DIAGNOSTI...
- 5. METHODS OF PREVIOUS N...
- 6. METHODS OF PREVIOUS N...
- 7. NUTRIENT STRATIFICATIO...
- 8. WITHIN-FIELD SOIL AND C...
- 9. THINGS THAT CAUSE VARI...
- 10. TIMING AND DEPTH OF S...
- 11. NUMBER OF SAMPLES, S...
- 12. ANOTHER CONSIDERATI...
- 13. GRID, ZONE, AND WHOLE...
- 14. SOIL ANALYSIS AND PRO...
- 15. SOIL ANALYSIS AND NUT...
- 16. SOIL ANALYSIS AND IN-S...
- 17. VARIABILITY IN SOIL TEST...
- 18. VARIABILITY IN SOIL TEST...
- 19. VARIABILITY IN SOIL TEST...
- 20. MAKING NUTRIENT RECO...
- 21. MAKING NIUTRIENT RECO

2 CCA Prep: Soil Testing & Plant Tissue Analysis



PREPARING FOR THE INTERNATIONAL CCA EXAM:

SOIL TESTING & PLANT TISSUE ANALYSIS

Presented by
BIO HUMA NETICS®



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Menu

- 8. WITHIN-FIELD SOIL AND C...
- 9. THINGS THAT CAUSE VARI...
- 10. TIMING AND DEPTH OF S...
- 11. NUMBER OF SAMPLES, S...
- 12. ANOTHER CONSIDERATI...
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- 16. SOIL ANALYSIS AND IN-S...
- 17. VARIABILITY IN SOIL TEST...
- 18. VARIABILITY IN SOIL TEST...
- 19. VARIABILITY IN SOIL TEST...
- 20. MAKING NUTRIENT RECO...
- 21. MAKING NUTRIENT RECO...
- 22. MAKING NUTRIENT RECO...
- 23. SOIL ANALYSIS INTERPRE...
- 24. SOIL ANALYSIS INTERPRE...
- 25. PLANT TISSUE ANALYSIS ...
- 26. EFFECT ON PLANT ANALY...
- 27. EFFECT ON PLANT ANALY...
- 28. DESCRIBE THE PROBABIL...

2 CCA Prep: Soil Testing & Plant Tissue Analysis

GRID, ZONE, AND WHOLE-FIELD SAMPLING

Grid	<ul style="list-style-type: none">Utilizes a uniform grid over the entire field such that spatial differences due to soils and past management can be understood and built into a fertilization/liming processSoil sample composites are collected at each point on the gridCan be used in a non-uniform field
Zone	<ul style="list-style-type: none">Recognizes that parts of a field – or zones – have been managed similarly and fertilizer and lime recommendations are made for each zoneSoil sample composites are collected in each zone
Whole Field	<ul style="list-style-type: none">Done when average soil test values for the entire field are used to make fertilizer and lime recommendationsA composite soil sample is collected for the entire field



Menu

- 21. MAKING NUTRIENT RECO...
- 22. MAKING NUTRIENT RECO...
- 23. SOIL ANALYSIS INTERPRE...
- 24. SOIL ANALYSIS INTERPRE...
- 25. PLANT TISSUE ANALYSIS ...
- 26. EFFECT ON PLANT ANALY...
- 27. EFFECT ON PLANT ANALY...
- 28. DESCRIBE THE PROBABIL...
- 29. ASSESS PLANT NUTRIENT...
- 30. REVIEW
- Q1. Soil sampling in a non-u...**
- Q2. The depth of the samplin...
- Q3. Nutrient concentrations ...
- Q4. At which of the following...
- Q5. Which of the following co...
- Q6. If a soil contains 40 lb P/...
- Q7. Fertilizer recommendati...
- Q8. ____ plant parts should ...
- Q9. Which is the best sample...
- Q10. ____ is the plant nutrie...
- Q11. The chlorophyll meter d...

2 CCA Prep: Soil Testing & Plant Tissue Analysis

Q1. Soil sampling in a non-uniform field should be by the ____ method.

- Rectangle
- Whole fi
- Grid
- Probe

Correct


That's right! You selected the correct response. This was covered in Slide 13.


Continue





SUBMIT


Dashboard


Libraries


Forms


Document Reviews


Education


Tasks

Product Document Library
[Photo Library](#)
[Presentation Library](#)
[L. Smith Interviews](#)
[Crops Wiki, Products Wiki](#)

HR Forms
[E-Stationary, PPT Templates](#)
[Travel Requests](#)
[Expense Reports](#)

BHN-U QMS
[BHN Staff Training](#)

See ALL your tasks or the tasks of those who report to you.

Today's Calendar


Today Monday, October 24 Week Month Agenda

Monday, October 24	
9:00am	Marketing Pow-wow
10:30am	Michael with San Marcos
10:30am	Rita-Conf. call women in Science committee.
12:00pm	CONF - Employee Registration
4:30pm	Rita Phone Call with Michael Seaver
Tuesday, October 25	
8:00am	Inventory Meeting
9:00am	Lyndon, Justin, Eduardo with Adolfo Menedez
12:00pm	Michael, Justin, Lyndon Meeting with Axtar
Monday, October 31	
1:30pm	BHN - Weekly Status Call
Tuesday, November 1	
7:30am	Lyndon to Vistage Meeting
8:00am	Inventory Meeting
9:00am	Rita with Michael Seaver
10:00am	Lyndon w/ Susan
10:30am	Rita wt Mike Bellefeuille
1:00pm	Alan with Nathan
Wednesday, November 2	
9:00am	Alan w/ Frank
10:00am	Conf - Customer Service Weekly Meeting
10:30am	Rita wt Grace
1:00pm	CONF - Mtg w/Piyush
3:30pm	Alan - InfoSafe Review
Thursday, November 3	
10:00am	Rita Conf Call-AZ Dep of Ag.


Company Blog



October 13 is Global Fertilizer Day
 Global Fertilizer Day will launch for the first time on 13 October 2016 with an event in London, giving international agriculture professionals the opportunity to creatively discuss global food security and the sustainability of our future. The purpose of



Employee News October 2016
 October is shaping up to be an exciting and very busy month! Historically, this is the month that we see orders start to pick up and we hope that is the case again this year. This month also brings our Bi-Annual BHN World Conference to town with preparati



Dr. Abi-Ghanem Appointed to EPA Agricultural Science Committee
 Rita Abi-Ghanem, PhD, Senior Director of Research & Development at Bio Huma Netics, Inc. (BHN), has been appointed to a 2-year term to serve as a member of the Agricultural Science Committee of the U.S. Environmental Protection Agency's (EPA's) Science Ad



Spanish Edition of BHN Newsletter 2nd QTR 2016
 The Spanish language edition of the 2nd Quarter 2016

Message Board


[+ new discussion](#)

Recent My discussions Unanswered questions ...

New BHN SharePoint Home Page
 Please leave a comment and tell us what you think about the new BHN Home Page design.
 By Larry Cooper Latest reply by Chanda Watterson September 1

Rita Presented with 2016 AIARD Young Professional Award
 Read the blog story at <http://bhn.us/2016/06/bhn-senior-director-research-development...>
 By Larry Cooper July 2

Birthdays & More



Personal Training

- Huma Gro[®] Product Wiki
- Crop Wiki



BHN Product Documents

Home New Upload Sync Share More

Libraries/Wikis All Documents Find a file

	Doc Type	Product Division	Product Name	Name	Year	Language	Modified
BHN Product Documents Library							
BHN Presentation Library				00 How to Use the BHN Product Documents Library			August 29
BHN Photo Library	Label;	Huma Gro	2-16-16;	2-16-16 Label (HG)	2016	ENG-U.S.	September 14
Lyndon Smith Product Interviews	Product Technical Bulletin;	Huma Gro	2-16-16;	2-16-16 Product Technical Bulletin (HG)	2016	ENG-U.S.+Int	August 25
BHN Product Wiki	Label;	Huma Gro	38 Special;	38 Special Label (HG)	2016	ENG-U.S.	September 14
Crops Wiki	Label;	Huma Gro Turf	38 Special;	38 Special Label (HGI)	2016	ENG-Int	September 14
Forms	Label;	Huma Gro	38 Special;	38 Special Label (HGT)	2016	ENG-U.S.	September 15
Doc Review	Product Technical Bulletin;	Huma Gro	38 Special;	38 Special Product Technical Bulletin (HG)	2016	ENG-U.S.+Int	August 25
Education	SDS;	Huma Gro	38 Special;	38 Special SDS (HG)	2016	ENG-U.S.	April 27
BHN-U	Label;	Huma Gro	44 Mag;	44 Mag Label (HG)	2016	ENG-U.S.	September 14
BHN Staff Training	Label;	Huma Gro	44 Mag;	44 Mag Label (HGI)	2016	ENG-Int	September 14
Tasks	Label;	Huma Gro Turf	44 Mag;	44 Mag Label (HGT)	2016	ENG-U.S.	September 15
Recent	Product Technical Bulletin;	Huma Gro	44 Mag;	44 Mag Product Technical Bulletin (HG)	2016	ENG-U.S.+Int	August 25
Tasks	SDS;	Huma Gro	44 Mag;	44 Mag SDS (HG)	2016	ENG-U.S.	April 27
Dashboard	Label;	Huma Gro	Activol;	Activol Label (HG)	2016	ENG-U.S.	September 14
Announcements	Label;	Huma Gro	Activol;	Activol Label (HGI)	2016	ENG-Int	September 14
Discussion Board	Product Technical Bulletin;	Huma Gro	Activol;	Activol Product Technical Bulletin (HG)	2016	ENG-U.S.+Int	August 25
Leave Request	SDS;	Huma Gro	Activol;	Activol SDS (HG)	2016	ENG-U.S.	April 27
Site Contents	Crop Program;	Huma Gro	Huma Gro Group;	Almonds Crop Program	2015	ENG-U.S.	September 18, 2015
	Crop Program;	Huma Gro	Huma Gro Group;	Apples Crop Program	2015	ENG-U.S.	September 18, 2015
	Crop Program;	Huma Gro	Huma Gro Group;	Barley Crop Program	2015	ENG-U.S.	September 18, 2015
	Label;	Huma Gro	Best-Bale;	Best Bale Label (HG)	2016	ENG-U.S.	September 14

EDIT LINKS



BORO-MAX

- Updated Pages
- Micro Carbon Technology
 - Home
 - Z-MAX
 - Super Potassium
 - Sil-K

[Return to Product Wiki Home](#)

Category

Micronutrient

Product Guaranteed Analysis

Boron (B) 10%

Derived from Boric Acid

Product Tagline (from PTB)

The Solution for Improved Boron Nutrition in Plants

Product Statement (From PTB)

HUMA GRO® BORO-MAX® complexed with Micro Carbon Technology® ensures efficient and effective uptake of boron, which is required for cell division, plant metabolism, cell structure, sugar transport, pollination, and seed development.

General Benefits of Use (from PTB)

- Supplies boron nutrition necessary for metabolic activity, proper growth, and maturation
- Improves quality of crop
- Is required for cell division and normal tissue differentiation and maturation
- Functions with calcium to form an "intercellular cement" to maintain plant structural integrity
- Improves protein metabolism and reduces nitrate accumulation in young leaves
- Enhances pollen viability and pollination in flowering crops
- Improves sugar transport in plants

Deficiencies—When to Apply

- Stubby stem or root growth
- Weakened cell walls that allow crop lodging
- Increase in soluble nitrogen compounds accumulated in young leaves
- Young leaves become chlorotic and die
- Symptoms of calcium deficiency may appear
- CORN: pollen tube failure; COTTON: rosette; NUT CROPS: decreased yields in otherwise healthy trees

Application Instructions

Contents are highly concentrated and must be diluted with water in a ratio of at least 20 parts water to 1 part product prior to foliar application. See table below for specific rate instructions. SHAKE WELL BEFORE USING.

Method of Application	Suggested Rate
-----------------------	----------------

- Home
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 - BHN Photo Library
 - Lyndon Smith Product Interviews
 - BHN Product Wiki
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Search this site

Lyndon Smith Product Interviews

Stop editing this list

Lyndon Smith Interviews (audio) | All Assets | Lyndon Smith Interviews | Find a file

Content Type	Name	Modified	Modified By	Length (seconds)
Audio	Lyndon Smith on Encapsalt and Kleenup 061416.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Fertil Humus 051916.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Organic Acids 061616.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Promax-Proud3 061516.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Zap 060316 Zap.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Soil-Max 051216.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Vitol Breakout Jackpot 062016.mp3	August 27	Larry Cooper	
Document	Lyndon Smith on Soil Max 052716.pdf	August 27	Larry Cooper	
Audio	Lyndon Smith on Super 3.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Micronutrients.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on Secondary Macronutrients.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on MCT_Part1-Leonardite Mine Hx.mp3	August 27	Larry Cooper	
Audio	Lyndon Smith on MCT_Part-2 How It Works.mp3	August 27	Larry Cooper	

Drag files here to upload

EDIT LINKS



CropsWiki

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Field Crops: Barley, Beans, Corn (Grain, Silage), Cotton, Hay, Oats, Peas, Peanuts, Potatoes, Rice, Sorghum, Soybeans, Sugar Beets, Sugarcane, Sunflower, Tobacco, Wheat

Tree Nuts: Almonds, Hazelnuts, Pecans, Pistachios, Walnuts

Vegetables and Melons: Cantaloupe, Chile Peppers, Cucumbers, Lettuce, Onions, Sweet Corn, Tomatoes, Watermelon

Fruits and Berries: Apples, Blueberries, Sweet Cherries, Tart Cherries, Grapes, Nectarines, Oranges, Peaches, Pears, Strawberries

[Nutrient Removal by Crops.pdf](#)

Data Source for PLANTING and HARVESTING is **Field Crops Usual Planting and Harvesting Dates (October 2010)**, USDA National Agricultural Statistics Services

Fruits and Tree Nuts: Blooming, Harvesting, and Marketing Dates (December 2006), USDA National Agricultural Statistics Services

Vegetables Usual Planting and Harvesting Dates (May 2007), USDA National Agricultural Statistics Services

Cash Receipts by Commodity (Crops), 2014 State Ranking, USDA ERS

See also: [Crops by State Excel](#)

RANK: "FC" = Field Crops; "TN" = Tree Nuts; "VM" = Vegetables and Melons; "FB" = Fruits and Berries. Within each category, crops are ranked according to # of acres planted or total quantity sold, by state.

REGION	STATE	RANK	CROP	PLANTING OR BUD BREAK												HARVESTING																		
				Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec							
NORTHWEST	Oregon (#19)	FC1	Wheat, Winter										9/15	—	—	12/1											7/10	8/23						
		FC2	Hay, Other			NA	NA	NA													5/20	—	—	—	—	10-15								
		FC3	Hay, Alfalfa			NA	NA	NA													5/5	—	—	—	9/20									
		FC4	Wheat, Spring			3/1	—	5/6																	7/20	—	9/3							
		FC5	Potatoes, Fall			3/15	—	5/25																	7/15	—	—	—	11/15					
		FC6	Corn, Grain			3/25	—	—	6/15																				10/10	—	12/5			



Wheat

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[Crops Wiki Home](#)

Note to Users: Please add your Name and the Date to each entry.

Wheat

Huma Gro Applications / Knowledge Base

[Evaluation of MCT-Based P Fertilizer, Super Phos in Spring Wheat.pdf](#)

General Wheat

The United States is a major wheat-producing country, with output typically exceeded only by China, the European Union, and India.

- Wheat ranks third among U.S. field crops in both planted acreage and gross farm receipts, behind corn and soybeans.
- U.S. wheat harvested area has dropped off nearly 30 million acres, or nearly one-third, from its peak in 1981 because of declining returns compared with other crops and changes in government programs that allow farmers more planting flexibility.
- About half of the U.S. wheat crop is exported.
- Despite rising global wheat trade, the U.S. share of the world wheat market has eroded in the past two decades.

Extention publication on wheat quality
<https://extension.umaine.edu/publications/1019e/>

Wheat in Idaho

Idaho is one of the few places in the world where buyers can find several different classes of wheat in one place. Wheat class is determined by kernel hardness and color, and by its planting time. Each class of wheat has its own characteristics related to milling, baking and agronomic needs.

Soft White Wheat (winter and spring): pastries, pancakes, cakes, cookies, crackers, flat breads, snack foods and cereals.

Hard Red Wheat (winter and spring): yeast breads, hard rolls and bagels, Asian noodles, flat breads.

Hard White Wheat (winter and spring): blended flours, Asian noodles, steam breads, domestic foods made with whole wheat.

Durum: pasta

Idaho wheat production is usually about 100 million bushels/year.

Thank You!