

Dellavalle Laboratory, Inc.

2020 Analytical Catalog

Effective Jan 1, 2020

Included is a list of common analytical packages. Individual tests are also available.
Call the lab for more details (800) 228-9896.

PLANT TISSUE ANALYSIS

Work Days

Leaf Analysis:

L1: N, P, K	5
L2: N, P, K, Zn, Mn, Na, B, Ca, Mg, Fe, Cu	5
L3: L2 plus Cl	5

Petiole Analysis:

P1: NO ₃ -N, PO ₄ -P, K	5
P2: NO ₃ -N, PO ₄ -P, K, Zn, Mn, Na, B, Ca, Mg, Fe, Cu	5
P3: P2 plus Cl	5

Grape Petiole Analysis:

G1: NO ₃ -N, P, K	5
G2: NO ₃ -N, P, K, Zn, Mn, Na, B, Ca, Mg, Fe, Cu	5
G2: plus TN	5
G3: G2 plus Cl	5
G3: G3 plus TN	5

Crop Removal Analysis:

CRA1: Moisture, N, P, K, Ash	9
CRA2: Moisture, N, P, K, Ash, Zn, Mn, Na, B, Ca, Mg, Fe, Cu	9
CRA3: CRA2 plus Cl	9

Alfalfa Analysis:

Fractionated: AA1-AA4	
AA1: Top Third: B, Mo, Cu	5
AA2: Middle Third Stems: PO ₄ -P, K	5
AA3: Middle Third Leaves: SO ₄ -S	5
AA4: All of the Above	5
AA5: Baled: K, B, Mo, Cu, Total: P, S	5
AA6: K, B, Mo, Cu, PO ₄ -P, SO ₄ -S, Total: P, S	5

FORAGE AND FEED ANALYSIS Sample Size: 1-1½ pounds, plastic bag (entire sample used); feeds reported on "as received basis".

Alfalfa Hay Evaluation:

A1: Moisture, Acid Detergent Fiber, Crude Protein, TDN	6
A2: AI plus NDF	6
TDN (Calculation of ADF, Moisture)	6

Proximate/Feed Analysis:

F1: Moisture, Fat, Crude Protein, Crude Fiber, Ash, TDN, NFE	6
F2: F1 Analysis plus Calcium, Phosphorus	6

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SOIL ANALYSIS

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Basic Fertility:

BF1: NO ₃ -N, PO ₄ -P, K, Zn	4
BF2: NO ₃ -N, PO ₄ -P, K, pH _s	4
BF3: BF1 plus extractable Ca, Mg, Na	4

Fertility Assay:

FA1: SP, pH _s , EC _e , Ca, Mg, Na, ESP, B, GR or LR (buffer pH), NO ₃ -N, PO ₄ -P, K, Zn	5
FA1: Plus Cl	5
FA2: FA1 plus DTPA extractable Mn, Fe, Cu and ammonium acetate	5
extractable Ca, Mg, Na expressed as meq/100 g	
FA3: FA2 plus <i>estimated</i> CEC, extractable Ca, Mg, K and Na expressed as	5
percentage of <i>estimated</i> CEC plus Al and H, if needed	
FA3: Plus OM	5
FA4: FA2 plus <i>measured</i> CEC, <i>estimated</i> exchangeable acidity and cations	7
expressed as percentage <i>measured</i> of CEC	
MA1: Sand, Silt, Clay, Textural Class	6
S14.10	
MA2: MA1 plus Organic Matter, Moisture, CEC	8
Rock, %	6

Heavy Metals (40CFR Part 503):

As, Cd, Cr, Pb, Mo, Ni, Se, Zn, Hg,	15
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Dairy Soil Nitrogen

DS1: NO ₃ -N (0-1', 1-2')	5
DS2: FA1 (0-1'); NO ₃ -N (1-2')	8
DS3: FA1 (0-1'); NO ₃ -N (1-2', 2-3')	8

DAIRY MANURE

DM1: Moisture, N, P, K	7
DM2: DM1 plus Ash, Ca, Mg, Na, S, Cl	10

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SOIL ANALYSIS (cont'd)

Work Days

POTTING MIXES (Growing Media)

Fertility Assay: SP, pH, EC_e, B, Ca, Mg, Na, K, Zn, Cl, NO₃-N, PO₄-P, Cu, Fe, Mn (water soluble) 6

ORGANIC SOIL AMENDMENT (Manure, Compost, etc.) 1 quart, plastic bag

Depending on matrix, methods from TMECC or RMMA.

OSA1: Moisture, N, P, K 7

OSA2: OSA1 plus Ash, Organic Matter (LOI), C:N Ratio, Ca, Mg, Na, Fe, Cu, Mn, Zn, S 10

OSA3: OSA2 plus Cl 12

OSA4: Heavy Metals (40CFR Part 503): As, Cd, Co, Cu, Cr, Pb, Mo, Ni, 15
Se, Zn, Hg (As, Pb, Se, Hg: (15 working days)

SOIL AMENDMENT ANALYSIS Sample Size: 1 pint, plastic bag

GA1: Gypsum plus Moisture (CaSO₄·2H₂O, Moisture) 10

GA2: GA1 plus P, K, Al, As, Ba, B, Ca, Cd, Cr, Co, Cu, Fe, Pb, 10
Li, Mg, Mn, Hg, Mo, Ni, Se, Si, Ag, Na, Sr, S, Sn, Ti, V, Zn

FERTILIZER ANALYSIS

FRT1: Nitrogen, N, P, K B2.20 4

FRT2: N, P, P₂O₅, K, K₂O, Al, As, Ba, B, Ca, Cd, Cr, Co, Cu, Fe, Pb, 10
Li, Mg, Mn, Hg, Mo, Ni, Se, Si, Ag, Na, Sr, S, Sn, Ti, V, Zn

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FOOD SAFETY Swab Analyses

Bacteriology - Swab Analyses

Work Days

Coliform/E. coli, MPN Petrifilm	7
Listeria, Genus, P/A	7
Salmonella, P/A	7
Salmonella, P/A - with confirmation	7
E. coli, 0157:H7, P/A	7
E. coli 0157:H7 Confirmation	14
APC (Aerobic Plate Count)	7
Enterobacter	7

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WATER ANALYSIS

Work Days

Agricultural

Ag Suitability: (250 ml plastic) 5
 pH, EC, Cl, B, HCO₃+CO₃, SO₄, NO₃-N, SAR, SARadj, LI (Langelier Index),
 Dissolved: Ca, Mg, B, Na, Fe, Mn

pH Titration Curve: (7.0, 6.8, 6.5, 6.0, 2.0) 7

Regional Water Board Monitoring Samples Submitted

Region 3: RB3 w/Geo Tracker only (Ag suit w/Homeowner1) 8
 RB3 only (Ag Suit w/Homeowner1, no Geo Tracker) 8
 RB3 NO₃-N only (w/Geo Tracker) 8
 Region 5: RB5 w/Geo Tracker (NO₃-N+NO₂-N) 8
 Registration Fee (One time per Irrigated Lands Coalition Member ID#)

Wastewater Analysis

Wastewater General Mineral: (1 liter plastic) 15
 Alkalinity (OH, CO₃, HCO₃), EC, SO₄, Cl, pH, TDS, Hardness,
 LI (Corrosivity), Total: P, K, Ca, Mg, Na, Fe, Mn, Cu, Zn, (No MBAS)

Storm Water Runoff:
 EC, pH, TSS, *Oil & Grease* (250 ml plastic, 1 liter amber glass w/HCl) 12
 EC, pH, TSS, TOC (250 ml plastic, 250 ml plastic w/H₂SO₄) 10

Dairy Water Analysis

Process Water Analysis:
 DPW1: EC, pH, NO₃-N, NH₄-N, TKN, TDS, TP, TK 12
 DPW2: DPW1 plus HCO₃, CO₃, Cl, SO₄, Total: Ca, Mg, Na 15

Well Water Analysis:
 DWW1: EC, pH, NO₃-N, Field NH₄-N* 10
 DWW2: DWW1 plus HCO₃, CO₃, Cl, SO₄, TDS, Dissolved: Ca, Mg, Na 10
 *NH₄-N will be run if Field NH₄-N is detected 10

Canal Water Analysis:
 DCW1: EC, NO₃-N, TDS 15

Bacteriology Water Analyses

Coliform, E. coli, P/A SM 9223 (Sterilized w/Na₂S₂O₃) 6
 Coliform, E. coli, MPN SM 9223 (Sterilized w/Na₂S₂O₃) 7
 Coliform, Fecal, E. coli, MPN (MTF 1x10) (Sterilized w/Na₂S₂O₃) 7
 E. coli 0157:H7 (Sterilized w/Na₂S₂O₃) 8
 Listeria, Genus, P/A (Sterilized w/Na₂S₂O₃) 7
 Salmonella, P/A (Sterilized w/Na₂S₂O₃) 7

Homeowner - Nonregulatory

HO1: Alkalinity, EC, Ca, Cl, Fe, Mg, NO₃-N, Na, Hardness, pH ... (1 liter plastic) 6
 HO2: HO1 plus Ag Suit (1 liter plastic) 10

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WATER ANALYSIS (cont'd)

Regulatory Domestic Water Analysis

Work Days

<u>General Mineral:</u> (2-1 liter plastic; 1-250 ml plastic w/HNO ₃)	10
Alkalinity (OH, CO ₃ , HCO ₃), EC, SO ₄ , Cl, pH, MBAS, TDS, Hardness, Corrosivity, Ca, Mg, Na, Fe, Mn, Cu, Zn	
<u>General Physical:</u> (500 ml glass)	3
Color, Odor, Turbidity	
<u>Copper and Lead:</u> (1 liter plastic)	12
(First-draw)	
<u>Inorganic Scan I:</u> (1 liter plastic, unpreserved & 2-250 ml plastic w/HNO ₃)	20
Aluminum, <i>Antimony</i> , <i>Arsenic</i> , Barium, Beryllium, Cadmium, Chromium, Fluoride, <i>Lead</i> , <i>Mercury</i> , Nickel, Nitrate, Nitrite, <i>Selenium</i> , Silver, <i>Thallium</i>	
<u>Inorganic Scan II:</u> (1 liter plastic, unpreserved; 2-250 ml plastic w/HNO ₃ & 500 ml plastic w/NaOH)	20
Inorganic Scan I plus <i>Cyanide</i>	
<u>Radioactivity:</u>	
Gross Alpha: (2-1 liter plastic w/HNO ₃)	14
Uranium: (500 ml plastic w/HNO ₃)	14
<u>Total Radium 224, 225, 226:</u> (1 liter plastic)	14
Radium 226: (1 liter plastic)	28
Radium 228: (1 liter plastic)	28
<u>Organic:</u>	
<u>Organic EPA 504:</u> (3-40 ml VOA w/Na ₂ S ₂ O ₃)	15
Ethylene dibromide (EDB), Dibromochloropropane (DBCP)	
<u>Organic EPA 507:</u> (1 liter amber glass)	15
Alachlor, Atrazine, Simazine, Thiobencarb	
<u>Organic EPA 508:</u> (1 liter amber glass)	20
Endrin, Lindane, Methoxychlor, Toxaphene, Chlordane, Heptachlor, Heptachlor epoxide	
<u>Organic EPA 515.1:</u> (1 liter amber glass)	15
Bentazon; 2,4-D; 2,4,5-TP	
<u>Organic EPA 525.2:</u> (1 liter amber glass)	15
Screen	
<u>Organic EPA 531.1:</u> (1-40 ml amber VOA w/MCAA buffer+Na ₂ S ₂ O ₃)	10
Carbofuran	
<u>Organic EPA 547:</u> (1-40 ml VOA amber w/Na ₂ S ₂ O ₃)	20
Glyphosate	
<u>Organic EPA 548:</u> (250 ml amber glass w/Na ₂ S ₂ O ₃)	15
Endothall	
<u>Organic EPA 549:</u> (1 liter amber plastic w/Na ₂ S ₂ O ₃)	15
Diquat	
<u>Volatile Organic EPA 524 (GC/MS) Reg & Unreg:</u> (Set of 3 VOA w/HCl)	15
Partial List: 1,1,1-Trichloroethane; Trichloroethylene; 1,1-Dichloroethylene; Benzene; Xylenes; Monochlorobenzene; Ethylbenzene; 1,3-Dichloropropene; 1,1,2,2-Tetrachloroethane; Tetrachloroethylene; 1,2-Dichloroethane; Vinyl; chloride; Carbon tetrachloride; 1,4-Dichlorobenzene; 1,1,2-Trichloroethane; Cis-1,2-Dichloroethylene; Trans-1,2- Dichloroethylene; 1,1-Dichloroethane; Trichlorofluoromethane (Freon 11); 1,2-Dichloropropane; 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	

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WATER ANALYSIS Individual Analysis

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Odor, Threshold	(500 ml glass)	SM 2150-B	3
Oil & Grease	(1 liter glass w/HCl)	EPA 1664A	10
Oxygen, Dissolved (DO)(done in-field)	(Sampling Kit) .....	.....	10
Oxygen Demand, Biochemical (BOD5)	(1 liter plastic)	SM 5210-B	7
Oxygen Demand, Chemical (COD) .....	.....	SM 5220-D	7
Perchlorate	(1 liter plastic)	EPA 314.0	12
Residue: Identification .....	.....	.....	15
Solids: Total (Total Solids) .....	.....	SM 2540-B	7
Total Filterable (Total Dissolved Solids) .....	.....	SM 2540-C	7
Volatile Dissolved Solids .....	.....	EPA 160.4	9
Fixed Dissolved Solids .....	.....	EPA 160.4	9
Total Nonfilterable (Total Suspended Solids) .....	.....	SM 2540-D	7
Settleable Matter (Settleable Solids)	SM 2540-F	5
Surfactants (MBAS)	SM 5540-C	5
Turbidity	SM 2130-B	3

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SUPPLIES (taxable items)

3-Foot "T" handle Soil Sampler (AMS)
3-Foot "T" handle Soil Sampler (JMC)
Soil sampler with stationary foot pedal (JMC)
3-Foot Ratcheting "Backsaver" Soil Sampler (JMC)
5-Foot Auger (4' ext, 2 1/4" Mud Auger, Cross Handle)
Replacement and extension parts available upon request
pH Paper (package of 100)
Cl₂ Test Strips
NH₄-N Test Strips
Hanna Cl₂ Checker Kit
Reagent 25/pk
Chlorine gallon of NSF Certified

REFERENCE MATERIALS (taxable items)

Western Fertilizer Handbook, 9th Edition
Western Fertilizer Handbook, 3rd Horticulture Edition

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