

#### NATURAL & ORGANIC FERTILIZERS & SOIL BUILDERS



# EROSION CONTROL & REVEGETATIONS

for Disturbed Soils and Environmentally Sensitive Areas

Suståne's EPA permitted composting facility.

KNOWN WORLDWIDE FOR SIMPLY THE BEST... ...NATURAL FERTILIZERS & SOIL BUILDERS!

#### **COMPLETE PLANT NUTRITION**

Suståne provides complete plant nutrition in safe, effective, and easy to apply granules. Suståne products are derived from biologically stable humus-rich compost and contain both water soluble nitrogen (WSN) and slow release nitrogen (SRN), beneficial microbiology, and all 17 elements essential for plant photosynthesis. With a near-neutral pH, a low salt index and low ammonium nitrogen percentage, Suståne will not cause seedling stress or plant fertilizer "burn". Suståne products increase soil cation exchange capacity (CEC) by supplying humates and stable organic matter. Suståne's organic and natural fertilizers provide soils with multiple benefits.

#### SUSTÅNE IS PROFESSIONAL GRADE

Suståne Natural Fertilizer manufactures high quality fertilizers, soil amendments, and biostimulants. For over 30 years, the company has manufactured inputs that are simple, safe, and cost-effective to use. Suståne products are used worldwide by hydro-seeders, farmers, greenhouse managers, soil blenders, landscapers, and professional turf managers. Suståne's compost-based materials are "all-in-one" inputs supplying high quality organic matter, balanced nutrient profiles, humates, and beneficial microorganisms in a single package. USDA Biobased Certified and OMRI listed. Suståne provides technical support and custom formulations for all types of growing environments.





#### SPECIFIED FOR REVEGETATION ENHANCED ENVIRONMENT - RAPID PLANT ESTABLISHMENT

- Suståne fertilizers are long lasting and are weed seed free to promote all plants, grasses, and forbs establishment.
- Minimize soil erosion and weed growth, while reducing need for repairs, re-seeding and time required to achieve soil stabilization.

#### LOW ENVIRONMENTAL IMPACT ORGANIC BASED FERTILIZER

- Suståne is biologically stable, pathogen-free, will not reheat, and will not attract animals, birds, or insects to establishment sites.
- Organic nitrogen is released slowly to the plant, minimizing loss to the environment.
- Longer nitrogen release saves energy and labor.
- Sustane stimulates the natural cycling of soil nutrients.
- Sustane reduces need for pesticides.

#### LOW CARBON FOOTPRINT USING RENEWABLE RESOURCES

- Made from natural renewable agricultural resources, Suståne has a low carbon and greenhouse gasses (GHG) footprint.
- Suståne contains no pharmaceutical waste products.
- Sustane complies with regulatory mandate and exceeds health and safety standards.

#### REDUCED ENERGY REQUIRED FOR TRANSPORT AND APPLICATION

- With Sustane, the energy required to transport and apply is reduced 4:1 vs. comparable NPK and organic matter supplied from wet, green waste compost.
- Granulated Sustane simplifies handling allowing accurate and uniform application of fertilizer and reduced loss to the environment.

## **ABOUT SUSTÂNE** UNIQUE PROCESSES PRODUCE DISTINCTIVE PRODUCTS

## ALLOWED FOR USE - APPLIED WITH CONFIDENCE

Suståne natural base fertilizers and soil amendments are allowed and specified for land application by landscape architects and civil engineers on residential, commercial, municipal, county, provincial, state, and federal land management areas. Suståne products are registered and compliant with several state Approved Products Lists for fertilizers and soil amendments.

## **BIOLOGICALLY RICH - MICROBIALLY DIVERSE**

Through careful formulation and manufacturing, Suståne's compost-based fertilizers are biologically rich and microbially diverse. Every Suståne granule contains millions of beneficial micro-organisms that help cycle nutrients to promote rapid plant establishment and assist in suppression of common plant and soil-borne pathogens.

### **AEROBIC COMPOST - CONCENTRATED AND GRANULATED**

The end product of controlled aerobic stabilization of organic material is humus. All Suståne fertilizers are built on a base of aerobically composted turkey litter over a 26-week stabilization process. Organic matter has been transformed into uniform humus. Soluble nitrogen has been converted to water insoluble slow release nitrogen (SRN) that will not burn plants, leach as nitrates, or volatilize into the atmosphere. The end product is safe to use, easy to apply, and predictable in plant growth response. Suståne products are formulated with natural minerals and other amendments including mycorrhizae, humates, etc. on request to meet specifications. Suståne is economical to transport and easy to apply at uniform agronomic rates. Nutrient levels are guaranteed. Soil physical structure is improved by the addition of glomalin and humic substances. Biological activity is restored to damaged or dead soils. Suståne is universally used in vegetative establishment for erosion control, land reclamation, and bioremediation of worn-out, and depleted soils.



temperatures (135° to 155° F.) turning organic matter into safe and biologically stable nutrient rich humus. This is the organic base material from which all Suståne fertilizers are made. Composting temperatures are continuously monitored to assure only the highest quality compost.







## SUSTAINABLE PLANT ESTABLISHMENT



## SUSTÅNE BUILDS SOIL...

- •Total plant nutrition, contains all the elements essential for plant photosynthesis.
- Produce rapid plant establishment with long-lasting fertility, reducing the need for repeat applications.
- Rich in humic substances and high in microbial diversity to help build and hold in place erosive soils.
- Tested and developed for varied climates and ecosystems since 1988.
- •Manufactured from recycled, renewable agricultural materials and naturally occurring minerals.
- Low environmental impact.
  Sustàne products are used worldwide.

## A GREENER WORLD

As world demand for restoration of disturbed soil sites and the development of natural recreational areas increases, architects, planners, and regulatory authorities look for design, inputs and management practices that will produce the best possible product with the lowest environmental impact. Utilizing Sustane products serve to augment native, ornamental, and agricultural crops' capacity to naturally sequester CO<sub>2</sub>.

The resulting green product – the restored mine site, the new green roof, the highway right-of-way, the new landscape, the renovated sports pitch, the expanded or newly opened parkland – ultimately grows into a verdant open space for all to enjoy for generations to come.





Hydro-seeding beach dunes for stabilization after Hurricane Katrina 2005 Galveston Island, Texas.

#### BIOLOGICALLY ACTIVE, HUMIC SUBSTANCES, AND ESSENTIAL ELEMENTS

#### SUSTÀNE REPAIRS DEPLETED & DISTURBED SOILS

Suståne provides one of the most biologically diverse and microbially beneficial amendments for improving, rebuilding and remediation of erosive soils that are sterile, dead, or have poor physical structure. Suståne improves soil nutrient cycling and stabilization of soil aggregates. The product establishes a long-lasting soil-plant-microbial interaction that helps propel the natural cycles of ongoing soil building.

#### HUMIC SUBSTANCES IN SUSTÂNE

Suståne organic fertilizers provide natural sources of humates and humic substances formed during the aerobic composting process. Humic acid levels average 8% in Suståne 4-6-4 and 8-2-4. One ton of Suståne supplies approximately 160 lb. of humic acid.

#### ALL THE ELEMENTS ESSENTIAL FOR PHOTOSYNTHESIS

In addition to carbon, Suståne contains all elements known to be essential for plant photosynthesis to occur. Secondary and micronutrients are critical to plant health and soil productivity.

#### TYPICAL SECONDARY AND TRACE ELEMENTS IN SUSTÅNE

Average values from analyses of multiple samples over many years.

Suståne Product	2-3-3 Concentrated Compost %	<b>4-6-4</b> %	5-2-4 %	8-2-4 %	
Sulfur	2.06	2.88	2.24	1.75	
Magnesium	0.79	0.65	0.57	0.37	
Calcium	3.94	4.65	2.83	2.20	
Iron	1.20	0.50	0.50	0.27	
Aluminum	0.21	0.22	0.21	N/A	
Manganese	0.06	0.05	0.05	0.03	
Copper	0.02	0.02	0.02	0.03	
Zinc	0.05	0.02	0.02	0.03	
Humic Acid	5.50	7.80	8.82	9.16	
<b>pH</b> (typical)	7	7	7	7	
Total Carbon	32.0	27.2	30.0	31.3	
Carbon:Nitrogen	16	6.8	6.0	3.9	
Salt Index	3	5	6	4	



#### SUSTANE APPLICATION METHODS

Broadcast - pre-plant or post-plant, drilled - shallow soil incorporation, and hydraulically applied - tank mixed with water, seed, mulch, and tackifier.



SUSTANE

### ORGANIC-BASED FERTILIZERS & SOIL AMENDMENTS Stream bed revegetation after fire with Sustaine.

**GRANULAR FORMULATIONS & BIOSTIMULANTS** 

## **GRANULAR FERTILIZERS & SOIL BUILDERS**

Suståne supplies these standard formulations listed below available in 40 x 50-lb. bags per pallet; ½-ton and 1-ton totes or bulk truckload.



2 • 3 • 3 All Natural Organic Humus Rich Concentrated Compost	All natural nutrient rich, low salt, clean, concentrated compost for re-building depleted soils. Benefits of screened pure compost in a dry, concentrated form, minimizes transportation and application costs.	Suståne 2-3-3 All Natural Organic: For 44 lb. of N per acre apply 2200 lb. For 88 lb. of N per acre apply 4400 lb. Apply 1-3 tons per acre.	80% SRN*: Course Grade 3.5 mm (300 SGN) *SRN: Slow Release Nitrogen
<b>4 ● 6 ● 4</b> All Natural Organic Granular Fertilizer	All natural, granulated compost based fertilizer that provides soils with a rich supply of humus, and all macro and micro nutrients required for quality plant growth. Allowed by South Dakota DOT.	<b>Suståne 4-6-4 All Natural Organic:</b> For 44 lb. of N per acre apply 1100 lb. For 88 lb. of N per acre apply 2200 lb.	80% SRN Medium Grade 2 mm (200 SGN)
<b>5 • 2 • 4</b> All Natural Organic All Purpose Granular Fertilizer	All natural, granulated, compost based fertilizer provides soil with a rich supply of humus, and all of the essential nutrients required for quality growth. Approved by California DOT and Western Federal Highway Division and allowed by several other Western State DOT's.	<b>Sustane 5-2-4 All Natural Organic:</b> For 44 lb. of N per acre apply 880 lb. For 90 lb. of N per acre apply 1800 lb. For 130 lb. of N per acre apply 2600 lb.	80% SRN Medium Grade
<b>8 • 2 • 4</b> All Natural Organic Slow Release <b>Hi-N</b> Granular Fertilizer	Suståne's highest nitrogen all natural granular fertilizer. Suitable for all vegetation when long term feeding is desired. 8-2-4 is ideal for high organic N. Slow Release Nitrogen and low burn potential.	<b>Suståne 8-2-4 All Natural Organic</b> For 44 lb. of N per acre apply 550 lb. For 88 lb. of N per acre apply 1100 lb. For 136 lb. of N per acre apply 1700 lb.	90% SRN Medium Grade
Custom Formulations	<b>Custom formulations are available in 10-ton minimum production runs</b> to meet most job specification or site-specific requirements.	Please contact your regional Suståne representative or distributor.	
4 • 6 • 4 Organic SRN Root Zone Feeder Packs	21 gram packets of slow release N, P, and K fertilizer with Suståne organic fertilizer packed into a completely biodegradable paper filter pack. Provides organic microbiology and slow release fertilizer to provide nutrients for up to 3 months.	For inclusion into the root zone when planting shrubs, trees, and ornamentals. 21 gram feeder packs	T SOME PELOER PAR
16 • 4 • 8 6-Month Root Zone Feeder Packs	21 gram packets of slow release N, P, and K fertilizer with Suståne organic fertilizer packed into a completely biodegradable paper filter pack. Provides organic microbiology and controlled release fertilizer to provide nutrients for up to 8 months.	For inclusion into the root zone when planting shrubs, trees, and ornamentals.	Por Source Calendar Party

#### CONCENTRATED LIQUID PLANT GROWTH BIOSTIMULANT



Specifically developed to prepare plants for improved growth in sub-optimum and stress conditions. BOLSTER is a scientifically balanced formulation of cold processed seaweed extracts and humic acid which enhances root growth and helps reduce drought and traffic stress. Seaweed extract from Ascophyllum nodosum is an excellent source of auxins, cytokinins and gibberellic hormones, and trace minerals. These hormones are combined with humic extracts from Leonardite and chelated iron. BOLSTER's performance is proven in over 35 years of applied research and university testing. Apply either separate with boom sprayers with a water carrier at 20:1 dilution ratio or tank-mixed for hydro-seeding at 1-2 gallons a.i. per acre. Available in  $2 \times 2.5$ -gallon cases,  $10 \times 1$  liter cases and 55-gallon drums.

## SUSTANE MYCORRHIZAE PRODUCTS A PROPRIETARY BLEND OF FOUR SPECIES



Magnification of stained root sample

showing endospores and hyphae.

#### ENHANCED MYCORRHIZAL INOCULANT WITH BENEFICIAL MICROBES & HUMIC ACID

Specially formulated with a blend of Suståne micro-granules, endomycorrhizae species and select beneficial bacilli bacteria that improve seed germination, promote vigorous plant establishment and encourage nutrient use efficiency. This biologically enhanced granular soil amendment improves root growth, resulting in plants that are better able to withstand ial microbiology and Suståne propels soil-plant nutrient cycling

environmental stress. Beneficial microbiology and Suståne propels soil-plant nutrient cycling.

- Delivers a minimum of 120 spores/g of Mycorrhizae and 100,000 CFU/g of beneficial bacteria
- Creates a symbiotic relationship with plant roots to optimize water and nutrient use
- Improves plants ability to suppress disease
- Mycorrhizae species include Rhizophagus irregularis, Rhizophagus clarus, Septoglomus deserticola and Claroideoglomus etunicatum
- Bacterial species include Bacillus subtilis, Bacillus pumilus, Bacillus megaterium, Bacillus licheniformis, and Bacillus amyloliquefaciens
- Available in 6-lb. canisters and 40-lb. bags



Growth of Kentucky blue grass in response to different mycorrhizal formulations. Plants treated with Suståne MycoBio showed superior growth (left side) as compared to those receiving other test formulations (right side).



#### STARTER FOR SEED, SOD, AND SHRUBS

BOLSTER GRANULAR contains a powerful, synergistic blend of mycorrhizae, nutrients, and plant biostimulants proven to promote rapid root development, superior growth, and help protect roots from

drought, stress, transplant shock, and pathogens. BOLSTER Granular increases root mass and depth. Preplant incorporate at 1,100 - 2,200 lb per acre.



Available in 25 and 50 lb bags and 1-ton totes.



#### **ARBUSCULAR MYCORRHIZAL INOCULANT**

Mycorrhizae forms symbiotic relationships between fungi and plants. The fungi colonize the root system of a host plant, providing increased water and nutrient absorption capabilities while the plant provides the fungus with carbohydrates formed from photosynthesis.

Suståne utilizes four species selected for wide range of ecosystems and climates: Rhizophagus irregularis, Rhizophagus clarus, Septoglomus deserticola and Claroideoglomus etunicatum. Suståne guarantees 120 propagules per cubic centimeter. Recommended application rates range from 20 to 60 lb. per acre applied with hydro-seed or seed drill.

Mycorrhizae are available from Sustane in 40 lb. bags or custom blended into Sustane fertilizers.

## SUSTANE<sup>®</sup> FOUNDATION<sup>™</sup> BIOLOGICALLY ACTIVE HYDRO-SEEDING MEDIA



NEW!

#### HYDRAULICALLY APPLIED SOIL AMENDMENT, & SEED **GROWTH MEDIA**

Easy-to-apply seedbed amendment for rapid seed germination and vegetative establishment. FOUNDATION soil building media stays where it's applied, is rich in organic carbon, vital plant nutrients, and microbiology to replenish depleted soils.

FOUNDATION's unique blend of best-in-class ingredients for reclaiming depleted soils includes wild rice hulls, sphagnum peat, coconut coir, biochar, aerobic compost, plant-based tackifier, amino acids, and Sustane's proprietary blend of four Endomycorrhizae species.

#### RECOMMENDED USE

For use in DOT roadside establishment, erosion control projects, mine site reclamation, burn area reestablishment, and dune restorations.

50 lb bale

#### FOUNDATION FEATURES

- FOUNDATION holds the seed application in place, improves soil structure, and porosity creating an ideal seed germination and rooting environment
- Contains 4 species of endomycorrhizal fungi for enhanced water and nutrient uptake by plants
- Aerobic compost provides soil beneficial microorganisms for improved nutrient cycling and ongoing plant growth
- Rich in organic carbon for depleted soils
- Amino acids help produce chlorophyll which leads to quality photosynthesis
- Contains biochar to promote biological activity and improve soil quality
- Increases plant mass 400% over untreated control - See next page
- Easy application mixes readily with water, seed, and flows smoothly
- Packaged in 50 lb bales



Hydro-seeded FOUNDATION forms a ground-gripping mesh that stays where it's applied. FOUNDATION retains moisture and creates an ideal environment for seed germination. FOUNDATION provides seed the time, protection, and the elements of plant nutrition and soil health for plants to get established.





## SUSTANE® FOUNDATION TRIALS, TESTING, AND RESULTS

#### SUSTÂNE FOUNDATION BIOTIC SOIL AMENDMENT

"As validated by ASTM D7322 FOUNDATION performed exceptionally well in both analyses, but especially well when compared against the concurrent bare soil control."

Below is the test report for Suståne FOUNDATION (Biotic Soil Amendment) utilizing ASTM-D7322 standard test method for determination of Erosion Control Product (ECP) ability to encourage seed germination and plant growth under bench-scale conditions. [American Society for Testing and Materials]

The ASTM D7322 test\* is a comparison between the percent improvement of the product to both the concurrent control, (bare soil) experiment run simultaneously with the product, and a historical average control which is the average value of all bare soil test results over the previous six-year period. Bare soil control is inherently variable in terms of bio mass produced, so comparing performance to a historical average is an attempt to mitigate the inherent variability in the test. As validated by ASTM D7322 Sustane FOUNDATION<sup>™</sup> performed exceptionally well in both analyses, but especially well when compared against the concurrent bare soil control.

STA		INDEX	Germi	nation & Ve	getation Gro	wth ASTM CP (Hydraulical	TEST SUMM D7322 Iy Applied Erosio PLANT GROWT	n Control Prod	uct)
Property	Units	Day	Concurrent Control Count	2015-2020 Ave. Control Count	FOUNDATION vs. Concurrent Control Count	Concurrent Control Percent	FOUNDATION vs. % of Conc. Control	2015-2020 Ave. Control Percent	FOUNDATION vs. 2015-2020 Control Percent
Seeds Germinated per Area	No. per 4 sq. in.	0	0.00	0.00	0.00	0%	0%	0%	0%
		7	0.22	1.59	6.44	100%	2900%	100%	405%
		14	1.89	8.39	17.11	100%	906%	100%	204%
		21	1.89	10.37	17.78	100%	<b>941%</b>	100%	172%
Average Plant Height	inches	7	0.67	0.62	0.89	100%	134%	100%	144%
		14	1.16	1.39	2.71	100%	233%	100%	195%
		21	1.99	2.15	3.76	100%	1 <b>89</b> %	100%	175%
Plant Mass per Area	mg. per 4 sq. in.	21	5.80	17.26	71.52	100%	1233%	100%	414%

Denver Downs Research Facility Texas Research International, Inc. - Environmental Division

#### \*Scope

1.1 This test method evaluates the effect of Erosion Control Products (ECPs) on seed germination and vegetation enhancement.

1.2 This test method evaluated the effects of FOUNDATION™ (BSM), a hydraulically-applied erosion control product (HECP) on seed germination in a controlled environment.

## FIELD RESEARCH REVEGETATION TRIAL FOR NEW MEXICO DEPARTMENT OF TRANSPORTATION

**Project:** Rebuilding depleted soil to promote rapid plant establishment for reduced erosion on new roadside construction site, Pojoaque, New Mexico

**Objectives:** Establish vegetative cover to roadside. Minimize native weed pressure.

*Field Conditions:* Native New Mexico disturbed soil classified unsuitable for plant survival; almost no organic matter; highly erosive, pH 9.

#### Soil amendment application rates and treatments:

As per NM DOT specifications all plots received equal

mycorrhizal fungi drilled with native seed and covered by 2 tons per acre (barley) straw crimped and tacked.

- 1. 3 tons per acre Suståne Concentrated compost hydraulically applied with seed
- 2. 75 tons per acre NM DOT Drill-seeded with yard waste compost, mechanically applied, leveled with dozers
- 3. Unamended control plot (UTC Untreated Control)

#### Sustane Concentrated Compost provides:

- Faster seed germination. Rapid ground cover.
- Greater plant nutrient uptake in high pH soils.
- Lower C:N ratio allows greater nitrogen bioavailability.
- Complete macro and micronutrients.
- Reduced erosion with faster, higher native grass establishment rates and lower weed pressure.
- Cost Savings More efficient and lower cost transportation and application. Sustane treatment = \$915 per acre savings vs. NM DOT yard waste compost applied at 25x rate.

#### **Pojoaque Overpass Revegetation Trial Results:**

Seed and plant survival rates highest to lowest: Suståne, NM DOT Compost, UTC

Weed pressure lowest to highest: Sustane, followed by UTC (little plant survival) and highest on yard waste compost. Early germination of native grasses on the Sustane treatment outcompeted weed development.

#### Erosion rills lowest to highest: Suståne, followed by NM DOT Compost, followed by UTC

Reference: Complete article in January-February 2015 issue of Land and Water Magazine of Natural Resource Management and Restoration; or visit https://www.sustane.com/attachments/article/234/LW%20NMDOT%20Revegetation2.pdf; and https://www.sustane.com/images/SustaneConcentratedCompostTestingNewMexicoDOTEMAIL1.pdf

CONTROL

NM DOT COMPOST

SUSTÅNE CONCENTRATED COMPOST

FOUR MONTHS AFTER SEEDING. NOTE: THE DARKER GREEN SHRUBS ARE WEEDS. RILL EROSION IS PRESENT ON TOP AND BOTTOM PLOTS.



Hydraulic application of Suståne allows for an extended reach and uniform coverage.

OW ENVIRONMENTAL IMPACT MINIMAL NITRATE LEACHING, OPTIMUM PLANT UPTAKE

#### A SLOW, EFFICIENT RELEASE OF NITROGEN TO PLANT LIFE WITHOUT LOSS OR IMMOBILIZA-TION IN THE SOIL

With ongoing commitment to protecting the environment, regulatory authorities, golf course architects, groundskeepers, and professional growers evaluate which inputs and management techniques will provide the tools and systems for optimum soil and plant health conditions while demonstrating the lowest possible negative impact on the surrounding natural resources.

#### NITROGEN RELEASE RATES FROM SOIL AMENDMENT MATERIALS

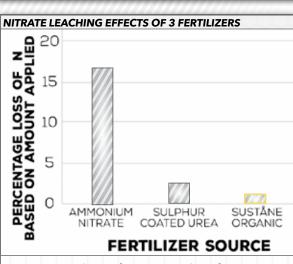
"A negative effect of the use of highly soluble fertilizer materials is that all of the N that is applied is rapidly available and is easily depleted. High initial application rates encourage rapid plant growth and nutrient uptake, while unincorporated soil solution N is easily leached from the profile. Without reapplication or N release from mineralized organic matter in the

soil, available N levels rapidly drop to deficiency levels and plant growth on the site declines. Proper amendment of drastically disturbed, low nutrient substrates, therefore, requires amendments that are large enough to support long term plant growth but which have low N release rates that correspond to uptake by perennial species and do not promote weedy invasion."

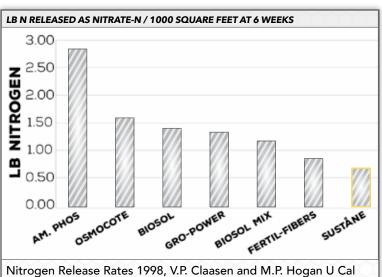
"The addition of organic substrates will improve other soil remediation characteristics including soil pH, soil physical structure, water release characteristics, mulch protection, biological inoculation, and other (non-N) nutrient requirements. Further, the addition of organic substrates will increase microbial activity, which is a major factor in the generation of water-stable aggregates.

Suståne's Nitrogen release curve has a rapid initial increase and a flatter monthly release rate than some of the other organics. Cumulative N release is 55% at 130 days incubation (30° C). The N release at 4 months is 0.63% per month and at 11 months the rate is 0.2% per month."

Excerpted from [Nitrogen Release Rates from Soil Amendment Materials], V.P. Claassen and M.P. Hogan U Cal Davis – *Caltrans and U.S. DOT Federal Highway Administration* 



Percentage loss of N in percolate from turfgrass based on the amount of N applied across 2 yr (195 kg/ha) from various N fertilizer sources. Values corrected by subtracting out N losses from the non-fertilized control.



U of Connecticut Guillard and Kelly

e

Davis, Caltrans

## QUALITY GROWTH THROUGH HEALTHY SOIL



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