Nevada Native Seed Forum 3-23-22

COMSTOCK FARM
Working towards sustainability
Marketing your local community
The native seed markets

ED S KLEINER
COMSTOCK SEED LLC
917 HWY 88
GARDNERVILLE, NV 89460
775-265-0090
ed@comstockseed.com

COMSTOCK FARM MOVING TOWARDS SUSTAINABILITY

LOCAL AND REGIONAL CONNECTIVITY

MOVE NATIVE FARMING FORWARD

Paying the bills

NRCS Programs activated at Comstock Farm

Green manure

Pollinator Monarch habitat

Fallow field analysis

Hedgerow

Vineyard ground cover

Infrastructure improvements

High Tunnel (NRCS)

Solar electricity

Constructed wetlands sewage treatment

Wildlife habitat

DIVERSIFYING FARM PRODUCTION Seed and hay

NATIVE SEED MARKETS

DIVERSIFYING SALES for long term stability

Comstock Farm sales Hay and Seed 2018

Roadside Sagebrush \$674 Hay production 26 acres Vineyard \$6600 300 Frontenac Vines .6 acres Alternativecrop experimental field 3.3 acres \$7675 sales Wetland seed \$339 Experimental Green manure crop.6 acres Denomination, Captalliana, Captago, Institute Geographics, CAPSA Arm De, 1809, Captag, ASS, Geltsmorthy, Associati, Trie, 1971, Sectionary, and

Many natives do not like heavy bottomland clay soils

Farm seed sales only provide a small contribution to mortgage payments



Comstock Seed

917 Highway 88. Gardnerville, NV 89460

January 15, 2019

SUMMARY FARM SEED SALES

YEAR	TOTAL S
2004-7	6713
2008	1140
2009	4206
2010	2122
2011	4638
2012	1705
2013	5359
2014	8174
2015	2469
2016	4408
2017	5061
2018	8688

Plus \$6000 hay sales per year



3-11-22

RE: NRCS ASSISTED HABITAT AND CROP IMPROVEMENT PROGRAMS

- E327A_July_2019 Pollinator, benefical habitat, hedgerow
- E327B_July_2019 Monarch habitat
- E328E_July_2019 4 Crop rotation one year
- 📤 E328J_August_2019 Crop rotation, benefits for pollinators
- E328K_August_2019 Multiple crop rotation to benefit wildlife.
- E328L_May_2020 Crop residue for wildlife
- E328M_May_2020 Crop rotation with sunflower and canola for pollinators
- E340C_July_2019 Cover crop green manure
- E340D_July_2019 Cover cropping for orchard and vineyard
- E340E_July_2019 Adding cover crop into rotations for soil health.
- E420A_May_2020 Pollinator habitat
- E420B_May_2020 Monarch habitat
- E449C_August_2019 Enhancing water management with automated monitor...
- E449D_August_2019 Enhancing water management monitoring equipment
- E484A_August_2019 Plant based mulching
- E484C_August_2019 Specialty crop mulching with natural materials
- E511A_July_2020 Crop harvesting that preserves other favorable species.
- E511B_July_2020 Crop harvesting that maintains wildlife habitat
- E644A_August_2019 Managing flood irrigated landscapes for wildlife.

Comstock Seed 917 Highway 88 Gardnerville, NV 89460 (775) 265-0090

Sold To: COMSTOCK FARM

Species & Variety
CEREAL RYE FALL V.N.S
CEREAL OATS SPRING VNS
VETCH, HAIRY
CLOVER ALSIKE
RYEGRASS ANNUAL GULF

Bulk Lbs: 50.00 PLS Lbs: 46.83

Other Crop: 0.46 Hard Seed: 0.00 Weed Seed: 0.00 Dormant: 4.45

Inert Matter: 0.71

Restricted: Noxious:

Also seeded daikon radish 5-2-18 2 lb

Broadcast seeded lightly tilled in 4-18

Order Date: 05/03/18 Order Number: 26428

Project Name: GREEN MANURE CROP

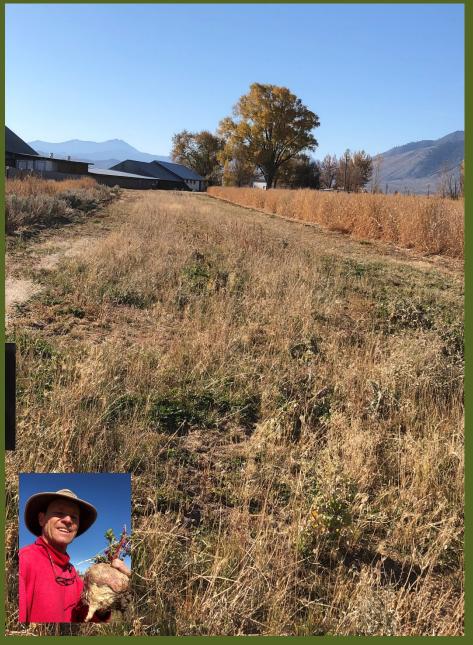
Project Number:

Blend Name: COMSTOCK FIELD 5 OPEN SPACE

Pure	Total		
Seed %	Viable	Tested	Origin
23.33	88	07/01/17	CAN
23.79	97	10/17/16	OR
16.61	95	07/31/17	OR
11.79	97	09/15/17	CAN
23.30	98	12/22/17	OR

NRCS E340c Green Manure 3 year program 2018-20





Used weed eater on annual weeds before seeding during summer

10-18 reseeded and mowed



DATE OF QUOTE: Catabar 25, 2018 QUOTE EXPIRES: November 24, 2018

QUOTE BY: ED

TOTAL: \$27.00 PRICING: Bulk

PROJECT NAME: GREEN MANURE CROP 10-18

CUSTOMER: COMSTOCK FARM

PROJECT #:

PHONE: FAX:

MOBILE:

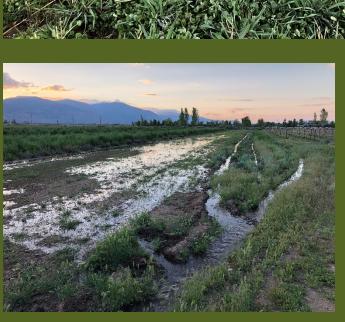
AREA: Area 1	Total Ar	ea: 0.50 Acres	MIXED: Yes	
SPECIES	LBS/ACRE	TILLES		FOB Gardnerville
RYEGRASS ANNUAL VNS	5.00	2.50		\$(LUS \$0.00 \$(ACRE \$54.00
CEREAL RYE FALL V.N.S	8.00	4.00		Seed Rele
WILDFLOWER MIX ANNUAL	1.00	0.50		LBS/ACRE-18.00
CLOVER ALS KE	2,00	1.00		
VETCH, HAIRY	2.00	1.00		
AREA TOTALS	18.00	9.00		
GRAND TOTALS		9.00		



Irrigated on 2 week cycle with surface rights April-July

6-19





Cornell soil test pre green manure 2018

Comprehensive Assessment of Soil Health

From the Cornell Soil Health Laboratory, Department of Soil and Crop Sciences, School of Integrative Plant Science, Cornell University, Ithaca, NY 14853. http://soilhealth.cals.cornell.edu

James Komar 65 Corporate Blvd Reno, NV 89502 james.komar@nv.usda.gov Field ID: Date Sampled: 04/30/2018 Given Soil Type: Midlebau

Kleiner1 1-7 inches

Crops Grown: Grass/Fallow/Fallow

Coordinates: Latitude: 38.902569440000 Longitude: -119.777561100000

Measured Soil Textural Class: sandy loam Sand: 71% - Silt: 20% - Clay: 8%

roup	Indicator	Value	Rating	Constraints
ysical	Available Water Capacity	0.11	22	
ysical	Surface Hardness	238	19	Rooting, Water Transmission
ysical	Subsurface Hardness	300	50	
nysical	Aggregate Stability	47.2	62	
ological	Organic Matter	2.5	73	
ological	ACE Soil Protein Index	6.1	35	
ological	Soil Respiration	0.3	16	Soil Microbial Abundance and Activity
ological	Active Carbon	318	25	
emical	Soil pH	5.7	29	
emical	Extractable Phosphorus	11.4	100	
emical	Extractable Potassium	225.8	100	
emical	Mînor Elements Mg: 167.6 / Fe: 15.5 / Mn: 5.0 / Zn: 1.1		100	

Overall Quality Score: 53 / Medium

Soil test post green manure 2022



PHONE 507-235-6909 FAX 507-235-9155 P.O. BOX 788 FAIRMONT, MN 56031

NAME:	Comstock Seed, LLC	DATE:	2/22/22
		SAMPLE TESTED:	Pasture
ADDRESS:	917 State Route 88		
		2021 CROP GROWN:	
CITY/STATE:	Gardnerville, NV 89460	2022 CROP:	
		LAB TEST#	242

SOIL ANALYSIS REPORT

Nutrient	Measure	Desired Ratio	Desired Level	Lab Results	Soil Index
Humus			30-40	20	
Nitrates	lbs. / Acre		40	25	
Ammonia	lbs. / Acre		40	8	
Phospho		1P:1K	174	178	0.33 : 1 P to K Ratio
Potassiu			167	538	
Calcium	lbs. / Acre	7Ca:1Mg	3,000	1581	7.8:1 Ca to Mg Ratio
Magnesi	um lbs. / Acre		429	202	
Sodium	PPM		<35	8	
ERGS	µS/Centime	ter	200	252	
ORP	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		28	31	
На			6.5	7.3	
Copper	PPM		0.8-2.5	1.1	
Iron	PPM		10-25	48.2	
Zinc	PPM		1-6	2.2	
Mangane			8-30	5.2	
Boron	PPM	,	0.8-1.2	1.2	Medium
Sulfur	PPM		30	Not Tested	
Formaza	n PPM		600	Not Tested	
C.E.C. T	est				
Phospho	rus				
Bray 1	(ppm)			147	
Olsen				70.2	
Potassiu	m (ppm)			364	
Calcium	(ppm)			992.18	
Magnesi	um			358	
Sodium				8	
Organic	Matter %			2.57	
рН				7.3	
K	%		2-5%	10.5	
Ca	%		60-70%	55.7	
Mg	%		10-20%	33.5	
Na	%		0.5-3%	0.4	
C.E.C	meg/100g			8.9	
Acidity	meg/100g			0.0	
Acidity	meq/100g			0.0	



Fallow for two seasons; surface dominated by filaree, cheatgrass, and annual mallow



NRCS E327b Monarch habitat Green manure field



12-21 Rototilled surface after late fall rain; shallow rooted annuals removed

Comstock Seed

DATE OF QUOTE: December 7, 2021

QUOTE DV: ED

PHONE: FAX:

MOBILE:
PROJECT NAME: POLLINATOR SEED BLEND
PROJECT #-

TOTAL: \$244.38 PRICING: Bulk

AREA: Area 1	Total Ar	ea: 0.50 Acres	MIXED: Yes	
SPECIES	LBS/ACRE	TTLLBS		FOB Gardnerville
MILKWEED SHOWY p	2.00	1.00		\$/LB3 \$48.15 \$/ACRE \$488.7
MILKWEED THIN LEAF p	3.00	1.50		Seed Rate
BEEPLANT, YELLOW p	1.00	0.50		LBS/ACRE 10.15
BEEPLANT ROCKY MOUNTAIN	1.00	0.50		
YARROW WHITE	0.15	0.08		
LUPINE BLEND p	1.00	0.50		
PENSTEMON BLEND p	1.00	0.50		
BUCKWHEAT SULFUR p	1.00	0.50		
AREA TOTALS	10.15	5.08		
GRAND TOTALS		5.08		

us annicable sales tay and freight. Please keen our prices confidential. THANK YOU FOR LETTING US RID.

917 Highway 8: Gardnerville, NV 8946 (775) 265-0090 FAX (775) 265-004 12-10-21
Broadcast
Seeded and
dragged with
chisel harrow

snow arrived the next day





Irrigated 3-3-22 Stay tuned





Infrastructure improvements

Local connectivity

9 kilowatt Photo voltaic system installed 2009

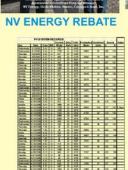


COMSTOCK'S SOLAR SYSTEM

-34		ACCOL Service	COVET	ADER: 160 DOX SEED	0041591	900094025	Cathorn	Paux
VV Energ	y.	100	CASCN	CONTLENS O			(Danie)	0002
5/14/2008	- 1	Next Meta	Read D	ete	Dice Do	ite	TOTAL AM	DUNT D
A11 B1		Jan	10, 2008		Just 1	500	\$11	.53
PREVIOUS BALAN	CE P	AFRICATE	AD	-	BALA	NEE FORWAR	CURREN	T CHAR
\$628.43	4	ES-EICH	1	100		1.00	1	11.11
Nevada Energy Co Nevada (805) 845- Eaving energy sav	2000.	SAILS!	55000		1000	Marie Are	'S) 684-073	or naral
Nevede (905) 545-	2009. es money taining en	For energy excellent p	consen	edion tips vis	t mvener;	Dy core.		
Nevedo (800) 545- Earling energy serv Thank you for main ELECTRIC - RES	2000. es money toming on I - NET ME derice	For energy excellent por TERRING RE	consens eyments IDER	etion tips vis comd. The in	t rivener; ik former Unter R	gy core. I to serving y	ou in the fut	ure.
Nevade (866) 845 Earling energy say Thank you for main	2000. es money toming on I - NET ME derice	For energy excellent po TERNO Re Barvice I From Apr 13	oyments oyments OER Feriod So May 11	etion tips vis comd. The in	t invener; in former Unter R tentous	gy anne. V to serving y Holinija Current. 245	Meter Model	ore.
Nevade (865) 545- Earing energy sav- Thank you for main ELECTRIC - RES Voter Nambe	daming on daming on dening on dening dening daming da da daming daming da da da da da da da da da da da da da	For energy excellent po teretors for dervice / from Apr 10 Apr 10	consens syments DER Ferial So May 11 May 11	ecord. The less of	t rovener; ik former Unter R tentous 215 135	gy core. If to serving y Holinia Current 167	Meler Militaries St. 20	Difference
Nevade (865) 545- Earing energy sav- Thank you for main ELECTRIC - RES Voter Nambe	de money on - NET ME dervise Cottoper Science Scienc	For energy excellent p TERNO Re Service 1 From Apr 10 Apr 11 Apr 13	consension operation of the consension operation of the consension operation of the consension operation of the consension operation ope	elon tips via	t invener; in former Unter R tentous	gy anne. V to serving y Holinija Current. 245	Meler Bustone 20 20 20 20 20 20	Difference
Nameda (845) 545- Earing energy sav- Thank you for main SUCOTRIO - RES Voter Namber 2002/9	ASSET MA Genus Company School Scho	For energy excellent p TERMO RE Bendon I From Apr 10 Apr 10 Apr 10 Apr 10	consense symente lock feried (c) May 11 May 11 May 11 May 11	edon tips via	Water R 1900 17 G	gy core. if to serving y wollings Current. 245 147 29	Meter Statement St. 20 20 20 20 20 20 20 20 20 20 20 20 20	989- jhts 113- 4-
Nevade (865) 545- Earing energy sav- Thank you for main ELECTRIC - RES Voter Nambe	de money on - NET ME dervise Cottoper Science Scienc	For energy excellent p TERNO Re Service 1 From Apr 10 Apr 11 Apr 13	consension operation of the consension operation of the consension operation of the consension operation of the consension operation ope	elon tips via	t rovener; ik former Unter R tentous 215 135	gy core. If to serving y Holinia Current 167	Meler Bustone 20 20 20 20 20 20	989- jhts 113- 4-
Nameda (845) 545- Earing energy sav- Thank you for main SUCOTRIO - RES Voter Namber 2002/9	2000. Its money Its money Its money Its money Some Som	For energy excellent p TERMO RE Bendon I From Apr 10 Apr 10 Apr 10 Apr 10	consense symente lock feried (c) May 11 May 11 May 11 May 11	edon tips via	Water R 1900 17 G	gy core. if to serving y wollings Current. 245 147 29	Meter Statement St. 20 20 20 20 20 20 20 20 20 20 20 20 20	ore.

LOW ELECTRIC BILL

PRODUCTION RECORDS





PANEL INSTALLATION

THE BIG PICTURE 2009*

USDA RURAL DEVELOPMENT GRANT 20,000
 SPP REBATE 8400 WATTS AT \$2.50/WATT 21,000
 FOUNDATION COST INSTALLED BY OWNER 2,200
 INITIAL FINANCIAL COMMITMENT 38,980
 ANNUAL DEPRECIATION DEDUCTION 16,000

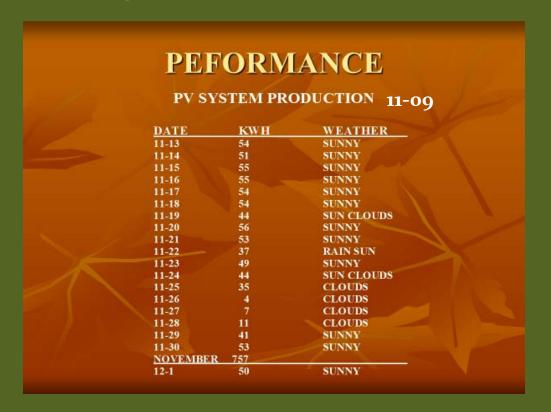
• ONE TIME FEDERAL DEDUCTION 9,000

Propane conversion to electric per year @ 1,000

* System costs are 50% less today than in 2009

Taho	2255 Del Norte So. Lake Tahoe, C/ 96150 (530) 542-0780			
	Final Invoice Date 11/10/2008		Comst 917 H	tomer cock Seed wy 88 erville, NV
QTY	Description	CEC Rating	Price	
	Sharp ND-216 U1F	190.5 watts (ea.)	\$	47,105.92
	Sunny Boy SB 5000US 240 volt inverter	95,50%	\$	3,454.14
	Sunny Boy SB 4000US 240 volt inverter	96.00%	\$	2,621.06
	Square D DC disconnect	30.0070	\$	383.00
1	Square D AC disconnect		S	115.01
	ground racking		Ś	6,268.06
	wiring, conduit, boxes		\$	1,287,44
	permit		5	893.00
1	pipe + misc.		\$	2,886,46
	engineering		\$	250.00
	labor		\$	9,985.00
	Note: Configuration of 24 panels wired into		_	
	the SB 5000US and 22 panels wired into the	1	-	
	SB 4000US.		+	
		Subtotal	\$	75,249.09
		tax	\$	4,731.65
		Total	\$	79,980.74
1	Famulation & transling	Total cost	6	82/80-7
	System Location Information	T II	T	
	Solar Generations Tracking Number	S5-C1368		

We met Tahoe Solar Designs at a Bently Ag green conference



Lunch showcases local businesses

by Scott Neuffer Staff Writer

Dan Kaffer, a coordinator for Western Nevada Resource Conservation and Development, called it a "a celebration of the bounty of Carson Valley and Nevada."

localyore lunch on Feb. 21 at tional and environmental rea-Comstock Seed in Gardnerville. The seed company foods means less energy used was celebrating the installa in transportation

tem, and the localyore lunch was another way to salute environmental consciousness and sustainability.

According to Wikipedia, a localvore, also known as locavore, eats food produced locally, typically within 100 He was referring to a miles of their home, for nutrisons. Consumption of local

"It's pretty amazing," said



SARAH HALL/The R-C

Western Nevada Resource Conservation and Development-Dan Kaffer, left, and Colton Witt hold shoestring fries atComstuck Seed on Feb. 21. See page 5 for more photos from the

DINING LIKE A LOCALVORE

Trimmer Outpust: 782-2518 Russell's Marcantile: 782-0019 Hungry Mother Organics: 267-1322. www.hungrymotherorganics.com Comstack Seed: 265-0090, www.comstackseed.com Taboe Ridge Winery: 783-1566, www.tahoeridge.com The Apple Basket: (775) 885-1988, www.agapnorganics.com Snyder Onlon: (775) 463-4448, |snyder@sicnv.com Full Circle Compost: 267-5305, www.fullcirclacompost.com Western Nevada Resource Conservation and Davalogment, Naturat Respuroe Conservation Service, 721-2387

Kaffer. "Nevada-grown lev potatoes were used for healthy food produced with just sunlight and water."

Kaffer said although much of the food was donated, the fried right there while neople lunch was a way to showcase and support local businesses.

What can I do when thinking about helping the economy?" he said. "Woll, it's a good thing to buy local food, to support the local agricultur- Seed al industry and to keep the Valley green."

Kaffer said more than 120 localyone feast. The grass-fed beef burgers

came from Genou's Trimmer Outpost: which sells beef from cows raised on historic Rauch No. 1. The white and wheat bons came from Russell's Mercantile Bakery and Café. Salad greens and other veggies were provided by Mindenbased Hungry Mother Organics. Tance Ridge Winery provided wine, while Dutch Oven nesses that can produce this apple and plum cobblets were made possible by apples from The Apple Basket in Washoo Valley and plums from Lucille

and Tony Pitts of Gardnerville. Snyder Omon of Yerington provided onlone for fried onion strings, and Smith Val-

what Kaffer said were 3-footlong French fries.

"They were being deepwere waiting in line," Kaffer

He said the only thing he conkin't find was local bottled water, so participants drapk well water from Comstock

"All the bottled water comes from Southern Califorma," he said. "There is a people attended the event, and niche, if someone with a well about 110 took part in the or spring around here wanted to start bottling water."

Kaffer himself did everything from cutting the onlons and potatoes to frying the

"Half the people there came up and commented how good the food was," he said. "It was one heck of a meal. Everyone who denated should be thanked. As a community, we should support our local busi-

Kaffer said Full Circle Compost of Minden recycled and composted the waste produced from the event.

"They even composted the silverware; it was cornstarch silverware," Kaffer said.



Green for green



SARAM MALL/R-C photos Renewable Generations Program Manager for NV Energy Scott Gerz, center, presents a check to Ed and Linda Kleiner, the owners of Comstock Seed Inc. on Feb. 21. At left, the Kleiners receive a check from U.S. Department of Agriculture Rural Development Business and Cooperative Programs Director Herb Shedd, Wells Fargo Business Banker Sarah Hill, and Acting State Director for USDA Rural Development Kay Vernatter.

Local connectivity has helped our business grow



Gardnerville seed company reaches out for the sun

pany is now relying on the When: 1 p.m., Saturday un to power its business.
In November, Comstock In November, Comstock Seed installed a 9,000 wait photovoltaic solar panel sys-tem to generate the energy needed to power its 43 agre farm, which sits off Hielway 88 between Centerville and

mmerling lanes. The more than \$80,000 mmerting lanes.
The more than \$80,000 electrical grid.

"The solar system was made for exactly the size of

Fargo. Comstock owner Ed Klein said his was the first installation in Nevada to receive a

rom Wells Fargo for roughly he same amount. Another

out of pocket," Kleiner said. without the grants."

Kleiner said his company
will also receive more than

\$20,000 in tax write-offs for the project. He said the pur-els will pay for themselves in about five years.
"They have a 25 to 30 year warranty," he said. "They're locked down in deep concrete

lucket down in eco concrete because the winds do what they do out her.

Comstank Seed, which causals a 1920s harn, a 1930s converted milit pursor and onverted milk parlor and

What: ribbon cutting Where: Comstock Seed, 917 Highway 88 Info: 265-0090

in the middle of a pasture, will remain hooked up to the

our annual consumption," Kleiner said, "Right now, in Kleiner said he's been

meticulously recording the meter readings for his new our absolute production

dioxide output.
"We've saved about 5,790

punds of carbon diexide since Nevember," Kleiner said. "That's less earbon dioxide in the atmosphere

and also less minney we're sending to Saudi Arabia." Kleiner said receat devel-opments in the solar industry will make the technology more affectable in the future. "In the 1970s, after the oil

izes in native thrubs, grasses and flowers for drought-toler ant landscaping and reclama-tion areas. Kleiner said the company has fared well in the

urban developers. Kleiner said three scree of

his farm are cultivated for

species.
"The seed industry could really keep agriculture alive

way 88. Around noon, Dan Kaffer of Western Nevada Resource Conservation & Development will be serving including local beef, smoked trout from Markleeville, plum jam from Reno and Kleiner's own homomade beer. For more information, call 265-0090.

Most of our sales are regional

not local



En Kleiner te los acour the solar panels at Comstock Scot on Highway 88

Working to make Nevada green

Thanks everybody for coming to our farm Feb. 21 for the sustainable living solar tour. This event raised the bar in Douglas County and Nevada for solar applications in agricul-

If we build enough of these systems we will have a double impact by reducing the foreign energy deficit and the need for large power

Everybody includes:

■ Dan Kaffer and Western Nevada Resource and Conservation Development for his incredible "localvore" lunch organization!

■ Steve Lewis, Vicki Bates, and the Sustainable Living Group

Herb Shedd with the U.S. Department of

Agriculture Rural Development ■ Matthew Tuma from Sen. Harry Reid's

■ Kevin Kirkeby from Sen. John Ensign's

Leslie Ames from Tahoe Solar Designs.

Thanks for helping with the tours; I hope you build a million more PV systems.

Scott and Larry from NV Energy

Chris Freeman and Kelly Kite, grill chefs par excellence

■ Trimmer Outpost for the awesome beef

Snyder Onion for their fried onion strings

■ Craig and Conner Witt from Full Circle Compost and the magic French fry maker

■ Smith Valley Potatoes for supplying the Witt's magic French fry maker

Russell's Mercantile Bakery for the

Mark O'Farrell from Hungry Mother

Organics for the fresh greens

Tahoe Ridge for the fine wine. We sat around the fire toasting you by late afternoon as the storm rolled in

Douglas High School's culinary class for all the trimmings. Be careful with those

Nora, Houston, and the DH environmental group manned the dutch-ovens

■ The Apple Basket for their dutch oven cobbler (apple of course)

Lucille and Tony Pitts for their Nevada plum dutch oven cobbler

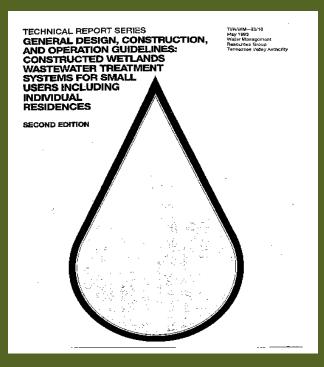
Sara Hill from Wells Fargo

Everybody else who came to celebrate, and then went home to build their own energy

Last, I want to thank Dan Kaffer for the super cool solar-hat-with-fan/toilet-seat combo. I'll save you a chair good buddy.

86 3-6.09

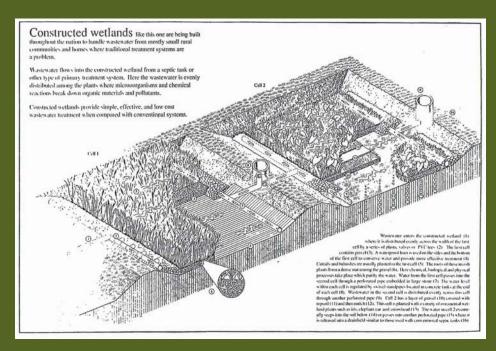
Gardnerville



Constructed wetland for sewage treatment at Comstock Farm

Tennessee Valley Authority
Plans used for construction at Comstock Farm and the
TNC Witt Nature Center, River Fork Ranch





COMSTOCK FARM CONSTRUCTED WETLANDS





Dig a few holes Make them level Put in a liner and some plumbing



Watch out for alligators

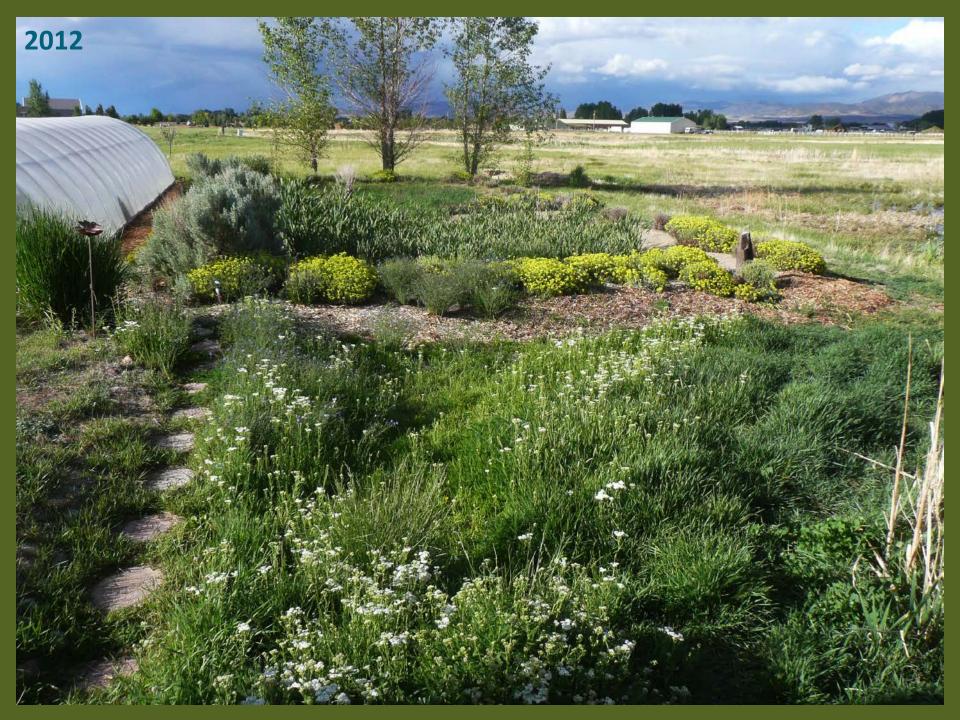






2001 Completed system primed with a hose for 8 hours







It's official; prettiest sewer system in the State

NRCS HIGH TUNNEL PROGRAM June 2010

3 years of production records required with program application





70% summer shade cloth

Added essential dedicated all season water line







HOOPHOUSE CONSTRUCTION DETAILS

Additions to survive wind and rodents



Added cinder block anchors on end walls

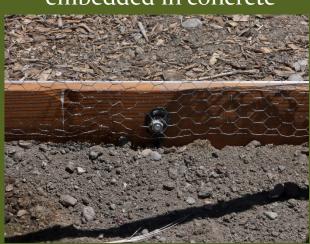


Added knee braces down the length



Added flashing over R max

Added corkscrew anchors embedded in concrete



Added R max insulation Below ground level



Added ¼" hardware cloth over R max





Added summer bird netting to keep the starlings and blackbirds off the tomatoes

Extending the season just a little longer





Tomatoe plants after first freezes



EFFORTS PAY OFF

NRCS has brought visitors to tour



717 lbs of tomatoes first season primary harvest after killing frosts



1.75 lb Amana gold tomatoe



Hugelkultur For compacted poor soils, dig a deep hole, bury lots of organic debris, cover and let decompose



NRCS 327A Pollinator habitat; hedgerow

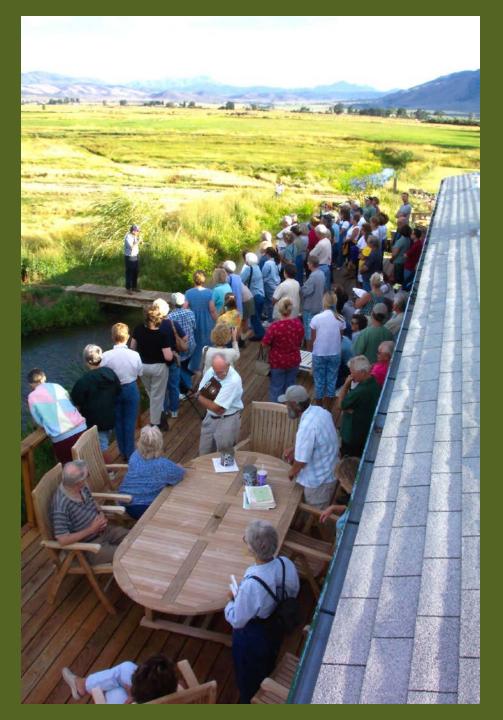






Pump house
pressurizes 1.5" PVC
pipe 700' out to west
fence line.
Drip irrigation 100
2 gph emitters
Intake wrapped in ¼"
hardware cloth
PVC has two sand filters
prior to emitters







Host a Cooperative Extension party Invite lots of 3rd graders to visit in the spring



Connectivity continued



Annual visit Eagles and Agriculture





Desert tortoise habitat a popular attraction





COMSTOCK FARM HAY PRODUCTION





We only cut 28 acres once per season as we are not managing nutrients; 1 ton/acre

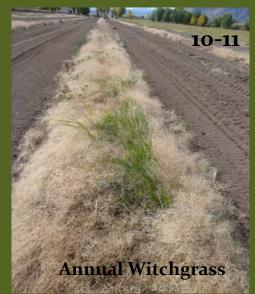


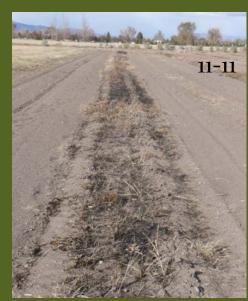




Experimental crop Leymus cinereus Great Basin Wildrye cultivation

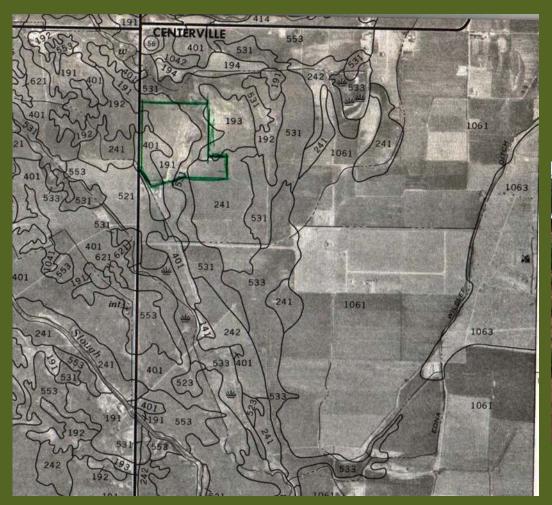








USDA SOIL SURVEY ANSWERS QUESTION ABOUT POOR PLANT DEVELOPMENT





- 191 Cradlebaugh clay loam drained slightly; saline-alkalai(surface clay loam, below clay loam)
- 241 Dressler coarse sandy loam (20" coarse sandy loam, 40" coarse sand loam to cobbly sand)
- 401 Heidtman (clay loam very deep poorly drained 47" clay loam surface with 20" sand underneath)
- 531 Jubilee loam (very deep poorly drained soil in depressions)

Great Basin Wildrye long term field management





We leave the grass standing for the winter for bird habitat as well as collecting the snow that scours off the pasture



We flail mow just as the grass begins to green up

NRCS 340d Vineyard ground cover

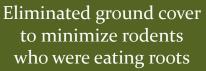


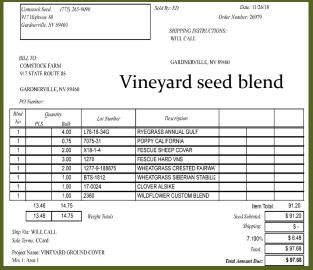




Vineyard has been a failure, so far; annual die back to the ground 80% of vines







6-19

No sod forming grasses

First summer ground cover broadleaf weed dominated

Vineyard ground cover 3-22





A mix of Tall, Sheep, and Hard Fescue



Despite the setbacks, we are making pretty good meat tenderizer and non-alcoholic wine grape juice!

Stay tuned

No income Just satisfaction



Pay attention to wildlife habitat



A family of four happy Barn Owls can consume 3000 voles and gophers per year





Install perches







Hawks by day Owls by night Perfect!

SEED MARKETS ARE DIVERSE AND GROWING

FEDERAL AGENCIES

INDEFINITE DELIVERY INDEFINITE QUANTITY CONTRACTS IDIQ

https://www.fedconnect.net/FedConnect/default.aspx?ReturnUrl=%2ffedconnect%2f%3fdoc%

3d14olo618roo45%26agency%3ddoi&doc=14olo618roo45&agency=doi

BLM REGIONAL PURCHASING

USFS, USFWS, NRCS, USGS

MINING

UTILITY CORRIDORS

GEOTHERMAL ENERGY

SOLAR ENERGY

SEED COMPANIES

STATE AGENCIES HIGHWAY DEPARTMENTS

CITIES, COUNTIES

NGO'S NATURE CONSERVANCY CALIFORNIA TAHOE CONSERVANCY AMERICAN RIVERS

REGIONAL AGENCIES TRPA

SKI RESORTS

GOLF COURSES

HOME OWNERS

LANDSCAPE CONTRACTORS

BUILDERS

ENGINEERING FIRMS CH2MHILL, Q&D, AECOM, RESOURCE CONCEPTS, R.O. ANDERSON

PARKS RECREATION AREAS WALKER BASIN STATE RECREATION AREA

AGRICULTURE TRADITIONAL AND DRYLAND PASTURE ALTERNATIVES HEDGEROWS

WILDFIRE CONTRACTING

WILDLIFE REFUGES

MARKETING

Fed biz ops; local and regional marketing

Wholesale vs. Retail opportunities

Direct marketing via commercial publications, trade associations, speaking events



Penstemon strictus harvest Rio Grande River Valley

Farm tour
The farmer was growing
17 species on 70 acres
We learned that it is prudent to
diversify experimentation with
new seed crops



ARS sponsored program

Transplanting Dalea searles Astragalus filipes

April 2012





Preemergent application killed all plants 2 weeks later



Sulfur buckwheat

FARM PRODUCTION OF NATIVE SEED

Row crop and natural













Supercell production for farm transplant as well as customers



B Atting sail + 2 Lucks

Willow production For wetland projects



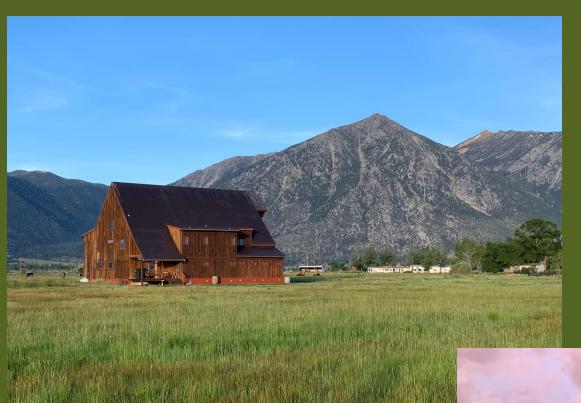
Cut flowers?







Sushi party 8-12-2007



1851 Solar barnhouse will be featured in the Carson Valley Almanac May 1st

Yet another example of connectivity, as this publication will provide additional exposure to Comstock Farm







Don't forget; connectivity

That's all for now Any questions?



Who doesn't like a parade?