

XERISCAPE:

The Journey from There to Here!

City of Fort Collins Environmental Program
Series
March 24, 2010

















IT ALL BEGINS WITH SEVEN EASY FUNDAMENTALS:

- PLANNING AND DESIGN
- *** SOIL IMPROVEMENTS**
- LIMITED TURF AREAS
- *** USE OF MULCHES**
- *** USE OF LOW WATER DEMAND PLANTS**
- *** EFFICIENT IRRIGATION**
- *** APPROPRIATE MAINTENANCE**

So, The Journey Begins!

Design and Maintenance are inextricably linked!

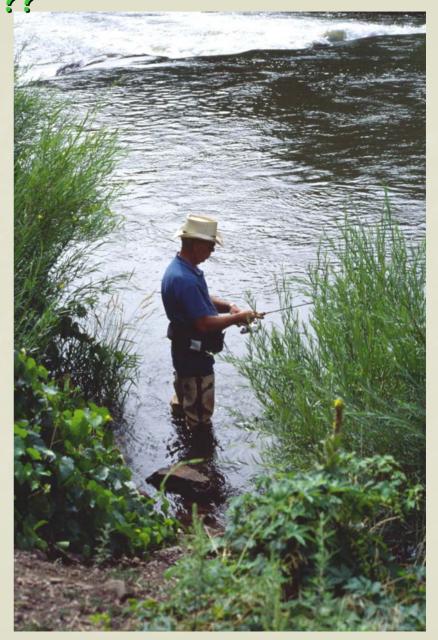
"If the intensity of care required in the landscape by the original design is not provided over the long term, Mother Nature will reclaim the landscape and instill, over time, the natural aesthetic 'SHE' intended for this region."

ONLY 3 1/2 **PERCENT OF** THE WATER ON EARTH IS AVAILABLE FOR HUMAN CONSUMPTION LET'S USE IT WISELY A David Winger Photo

Why Take This Journey????

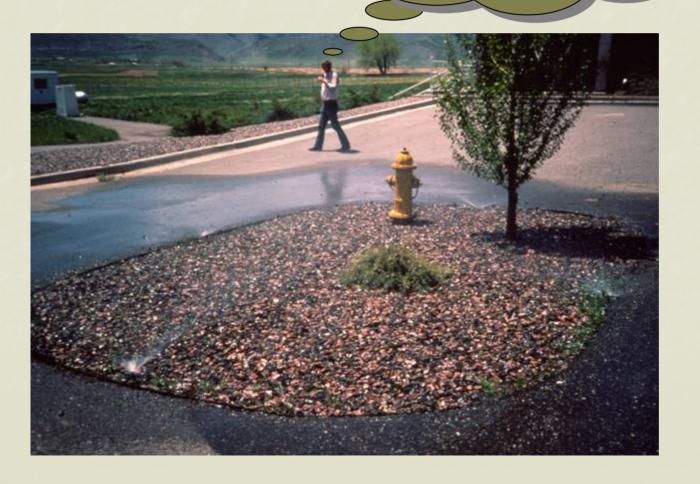
IN RESIDENTIAL
SETTINGS, OVER 50%
OF ALL WATER USED
IS FOR LANDSCAPE
PURPOSES. SAVING
WATER HERE ALLOWS
WATER FOR OTHER
ENVIRONMENTAL
NEEDS.

AS POPULATIONS
GROW COMPETION
FOR WATER BECOMES
INCREASINGLY
INTENSE. (So Will Water
Rates!)



WILL IT BE A JOURNEY OF "BEEN THERE DONE THAT'S"?

Nah, it's perfect as is.





A JOURNEY OF "JUNIPERS" ?









A WELCOME HOME?

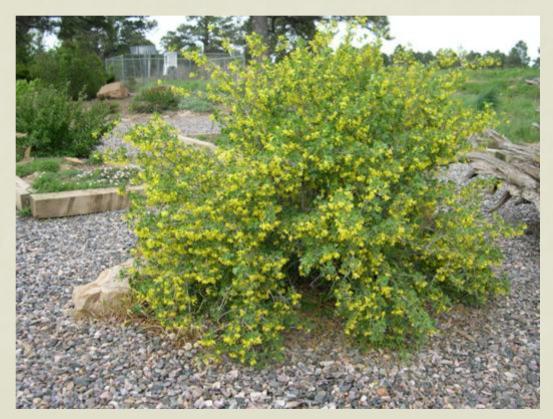








To Shear?



Or Not?

Plan for the maximum mature size of each plant





To Mow?



Or Slide?

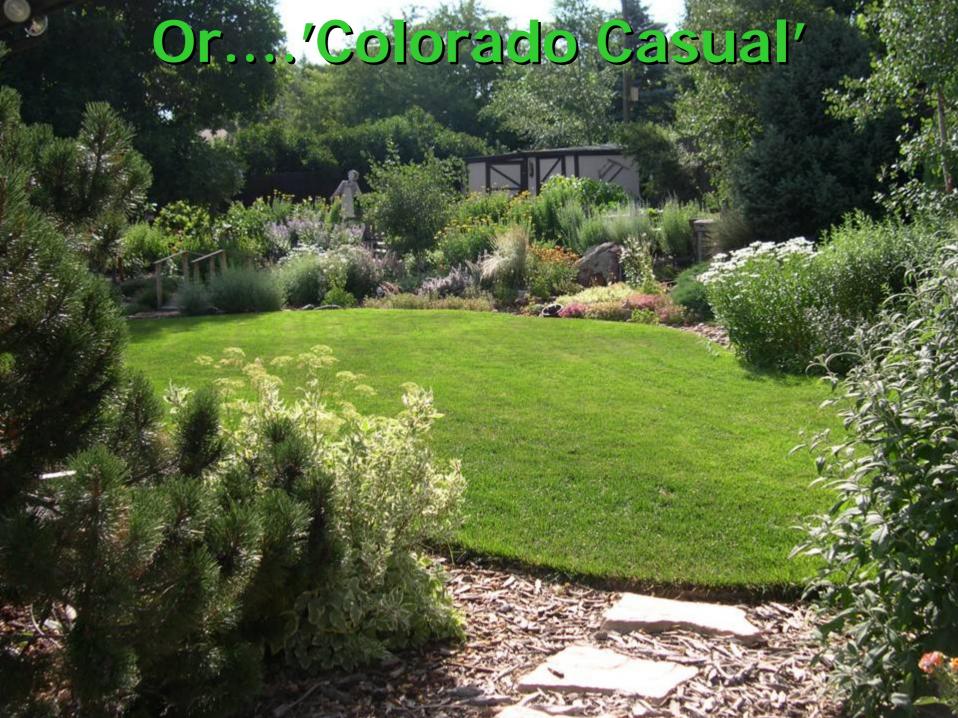


Are we Having Any Fun Yet?

CLASSIC FORMAL...







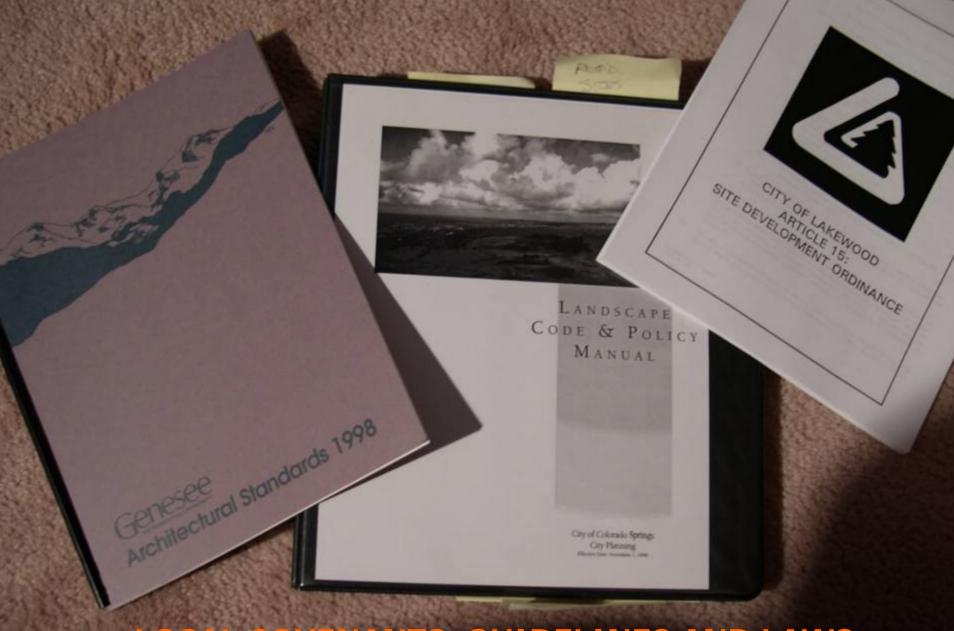
Begin With KNOWLEDGE!

- SEMINARS AND CLASSES
- SELECTED READINGS/CATALOGS/PAMPHLETS
- NETWORKING
- INTERNET-WORKING
- DEMONSTRATION GARDENS (What better place than CSU and the W. D. Holley PERC?)
- DESIGN SESSIONS
- PLANNING
- PHASING
- CONSULTING
- WORKING!!
- ENJOYING!

SELECTED READINGS/CATALOGS/PAMPHLETS



Bibliography



LOCAL COVENANTS, GUIDELINES AND LAWS

NETWORKING

■INTER-NET WORKING

DESIGN SESSIONS



DEMONSTRATION GARDENS (What better place than CSU and the W. D. Holley PERC?)



PLANNING



PHASING





CONSULTING

(DO YOU HAVE GARDENING BLOCK?)



WORKING

and



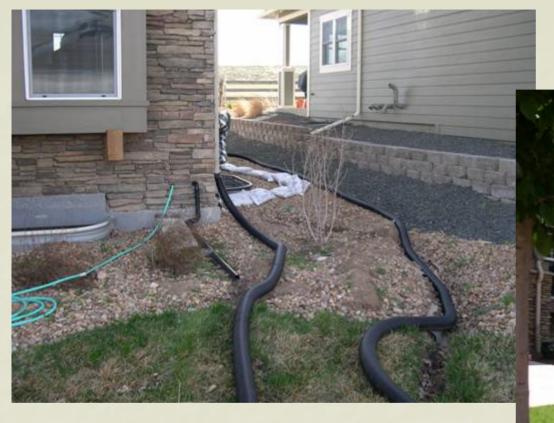
KNOWING YOUR LIMITATIONS





SERIOUS ISSUES COME FIRST

LIKE DRAINAGE AND GRADING





THE LAWN







COST PER SQUARE FOOT TO MAINTAIN:

- •MOWING TIME 45 SECONDS.
- •TRIMMING TIME 30 SECONDS.
- •CLEAN UP TIME 20 SECONDS.
- •TRAVEL & SET UP TIME-- 1.5 HOURS.
- •BILL TO CLIENT: \$1,650.00/YR OR, \$13.75/ SF



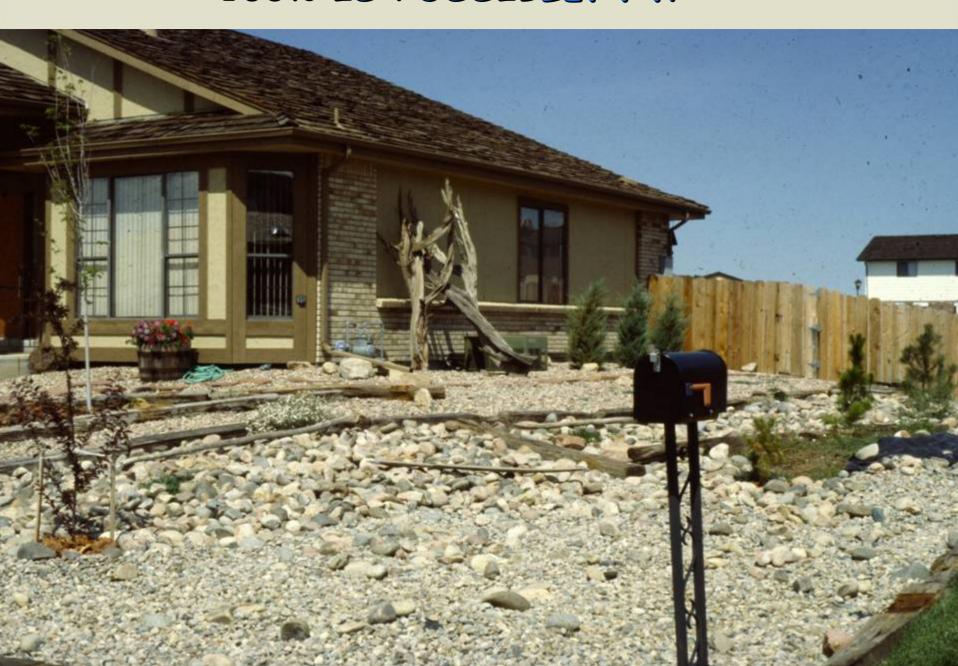
WATER USE/REDUCTION TRADITIONAL REQUIREMENTS

- LAWN AREAS: (SF X 18) = GALLONS /YEAR
- BED AREAS: (SF X 12) = GAL./YR
 I.E. 5,000 SF X 18 = 90,000 GAL./YR

CONSERVATION GOAL: 50% LESS

- LAWN AREAS: (SF X 9) = GALLONS /YEAR
- BED AREAS: (SF X 9) = GAL./YR
- I.E. 5,000 SF X 9 = 45,000 GAL./YR

100% IS POSSIBLE. . .?



AND, CAN BE ECOLOGICALLY PRODUCTIVE



PLANNING FOR LAWN AREA REDUCTION





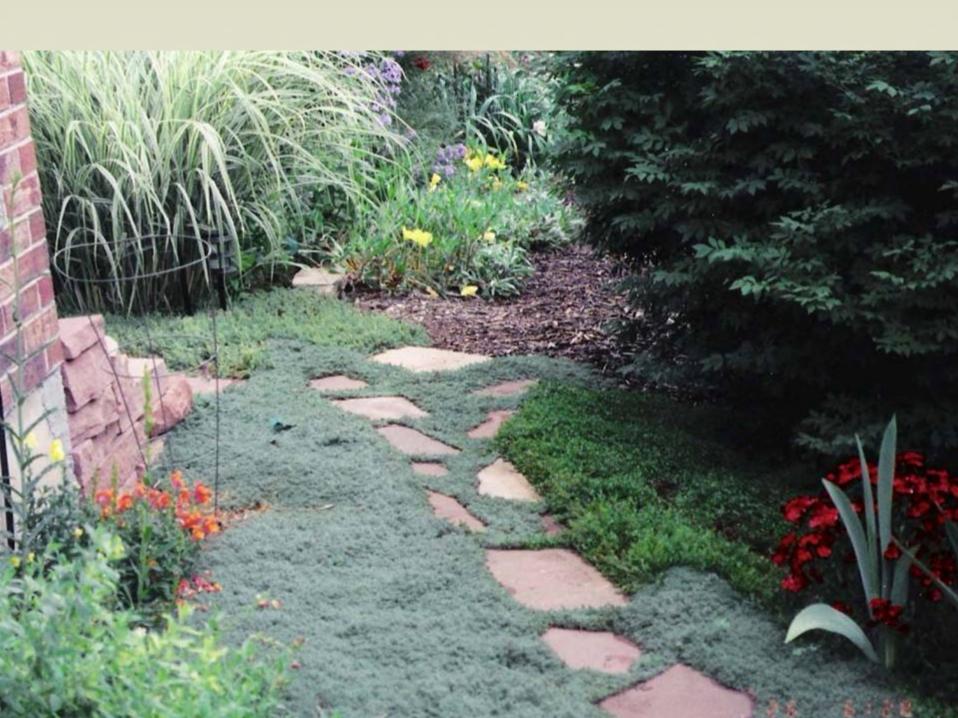






















FRUGAL ALTERNATIVES TO BLUEGRASS





BLUE GRAMA – 6 GAL.

TEXAS HYBRID BLUEGRASS



Also: 'Thermal Blue', 'Thermal Blue Blaze', 'Solar Green', 'Dura Blue'.



COMING SOON!



CANADIAN BLUE FESCUE CLIENT

KENTUCKY BLUEGRASS BLEND NEIGHBOR

(FIELD NOTE: Edging helps keep Bluegrass out)

LAWN TO NEW SOD:

ABOUT \$1.35 PER SQUARE FOOT INSTALLED (DIY - ABOUT \$0.65 PER SQUARE FOOT)

LAWN TO SEEDED:

ABOUT \$0.55 PER SQUARE FOOT INSTALLED (DIY - ABOUT \$0.35 PER SQUARE FOOT)

LAWN TO MULCH:

ABOUT \$0.55 PER SQUARE FOOT INSTALLED (DIY - ABOUT \$0.35 PER SQUARE FOOT)

LAWN TO PLANTS:

ABOUT \$4.00 TO \$4.25 PER SQUARE FOOT (DIY - ABOUT \$3.00 to \$2.50/ SF)





HOW TO HAVE AN URBAN MEADOW

SITE PREP:

- A. Kill existing vegetation.
- B. Till soil and add compost (3 CY/1000SF).
- C. Rake out debris and smooth soil surface.

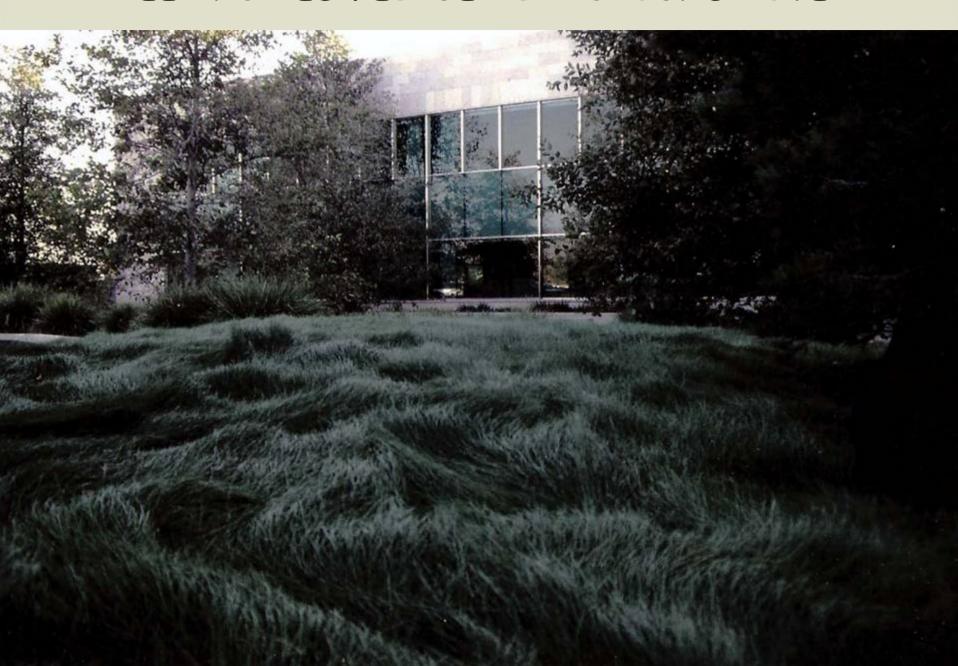
BY SEEDING:

- D. Equal parts of Durar Hard and Covar Sheep Fescue For Shady Areas.
- E. 'Hachita' Blue Grama Grass For Sunny Areas.
- F. Seed at a rate of 2 pounds of seed per 1000 SF.
- G. Rake seed into top 1/4 inch of soil.

BY SODDING:

- H. Install Canadian Blue Fescue sod (Turfmaster LTD sod farm, Fort Collins) or, DRS sod (Green Valley Turf, Co., Littleton) per suppliers' instructions for shade.
- I. Install 'Legacy' Buffalograss sod per suppliers' instructions for sun.

CREEPING RED FESCUE AS A GROUND COVER



CANADIAN BLUE FESCUE SOD, OR "DRS" FESCUE SOD.



AS A LAWN







A GRASS SO FINE AND SOFT THAT IT FORMS A VERY CASUAL, INTERESTING, AND WATER EFFICIENT LANDSCAPE AREA.



MEADOW

BLUE GRAMA GRASS



ESTABLISHES QUICKLY



'HACHITA' BLUE GRAMA GRASS









SEEDING METHODS



(HAND BROADCAST)



(DRILLED) (HYDRO SEEDING, ALSO)



(SLIT SEEDED)

SOIL?

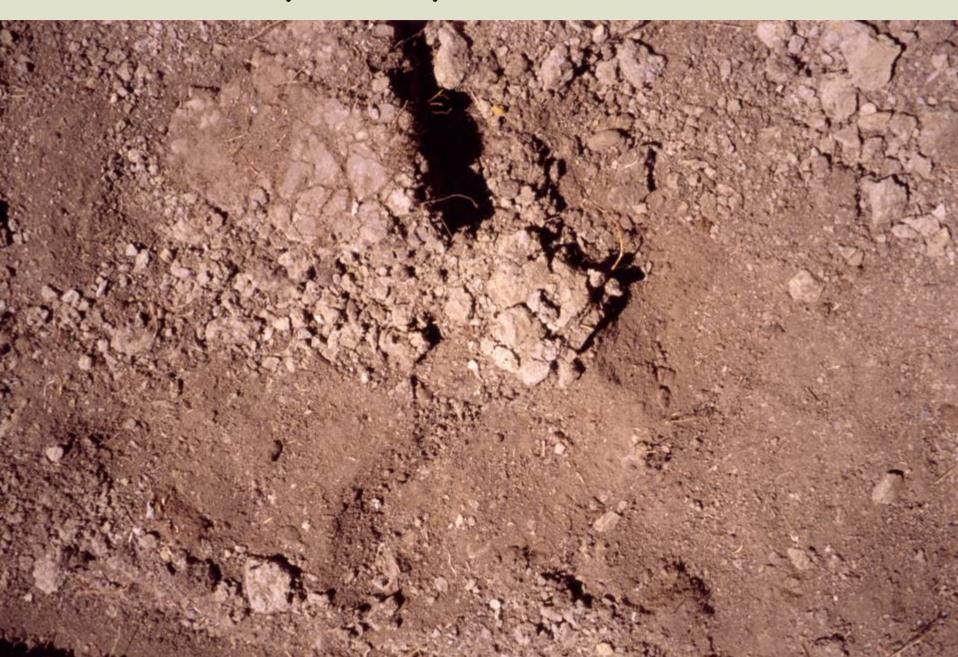


STRIP AND STOCKPILE

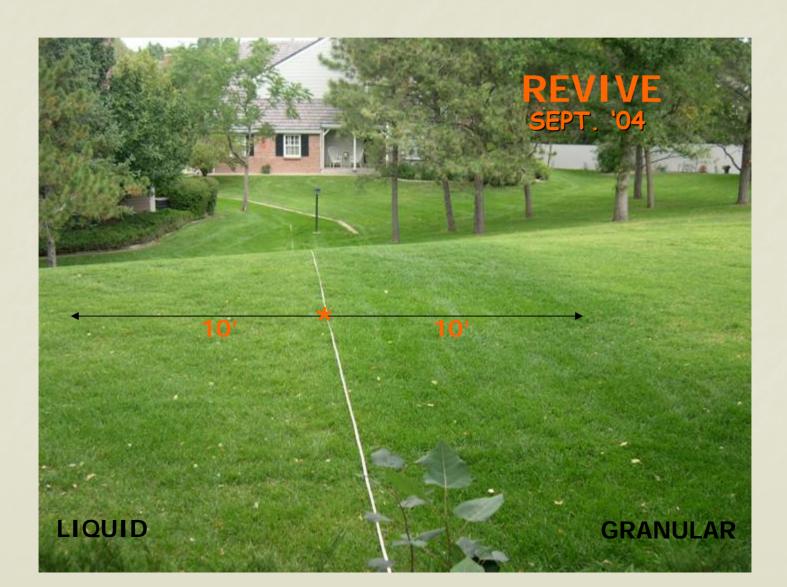


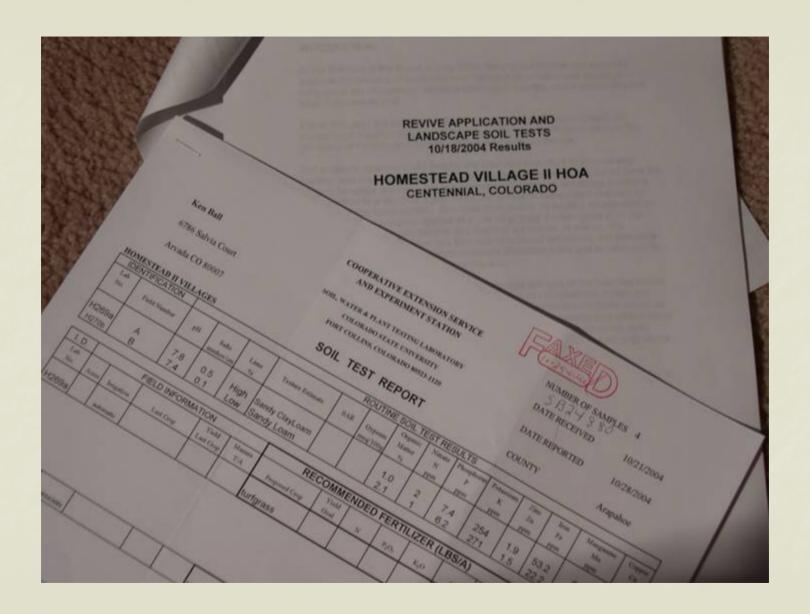


RIP, PLACE, AND TILL



TOP DRESSING





WHY FINISH THE JOURNEY WITH IRRIGATION?

- IMMEDIATE, SIMPLE, LOW COST WATER SAVINGS OF 30%, POSSIBLY MORE.
- SAVED \$ CAN BE DIRECTED TO OTHER IMPROVEMENTS.
- ELIMINATE MISUSE AND OPTIMIZE USE OF WATER.
- WATER APPLICATIONS CAN BE CONTROLLED.
- ENHANCE PUBLIC IMAGE.
- REDUCE DAMAGE TO SITE IMPROVEMENTS.
- AND, TO BUILD HEALTHIER LANDSCAPES

SAVINGS POTENTIALS:







SWITCH TO NEW TECHNOLOGY



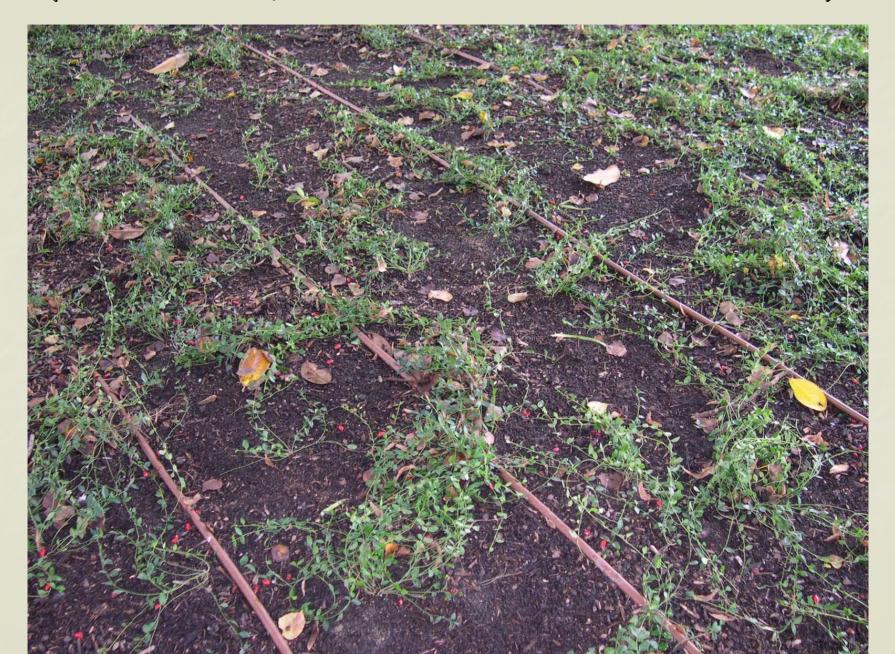


MICRO-IRRIGATION



(FIELD NOTE: Water harvesting will work!)

(NETAFIM OR, RAINBIRD LANDSCAPE DRIPLINE)









IRRIGATING TO
GET PLANTS
STARTED IS,

SOMETIMES,
ALL THAT
IS NEEDED



SIMPLE SOLUTIONS

- ADJUST CONTROLLERS FREQUENTLY.
- ADJUST NOZZLES/PRESSURE TO ELIMINATE MISTING.
- SET HEADS PLUMB AND FLUSH WITH ADJOINING GRADE.
- ELIMINATE RAIN SHADOW EFFECT.
- CONFINE SPRAY TO LIVING PLANT MATERIAL AREAS.

TOUGHER TASKS

- MAKE CERTAIN ALL HEADS IN A SINGLE ZONE ARE IDENTICAL. DO NOT MIX ROTORS AND POP UPS!
- CHANGE HEADS AND/OR NOZZLES TO MORE EFFICIENT TECHNOLOGY.
- CONVERT ZONES FOR SLOPE, ASPECT, PLANT IRRIGATION NEEDS, AND SAFETY.
- CHANGE, OR ELIMINATE PLANT MATERIALS. REDUCE TURF AREAS.
- INSTALL SMART CONTROLLERS.

DEFENSIBLE SPACE



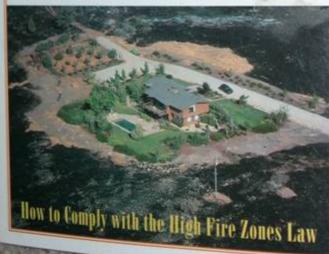


CREATING BANDS OF PROTECTION WITH PLANTS

MANAGING NATIVE VEGETATION

GETTING HELP: PUBLIC AND PRIVATE RESOURCES

Maureen Gilmer







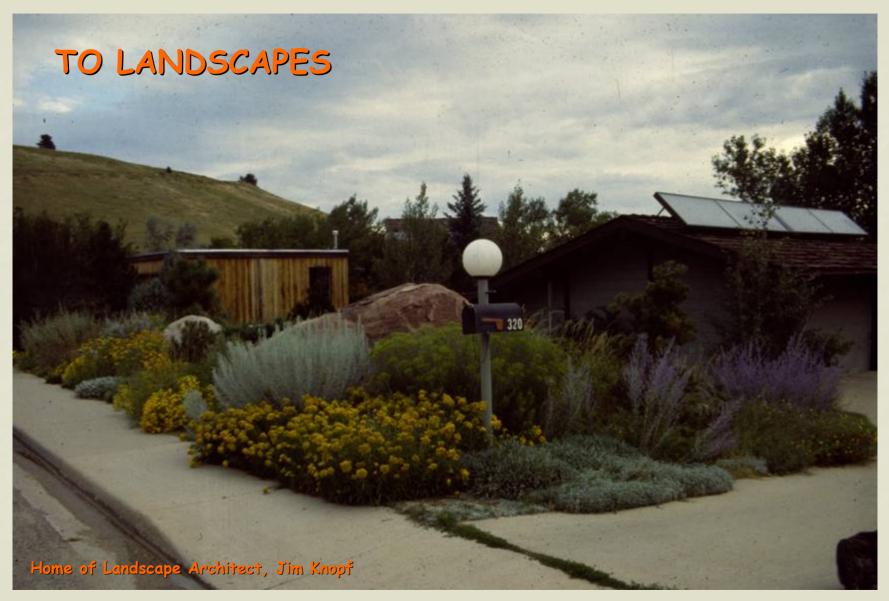
IN CLOSING,
THE JOURNEY HAS BEEN, AND
ALWAYS WILL BE, A GOOD ONE, FOR
OUR VALUED SENSE OF
ACCOMPLISHMENT AND, FOR THE
WELL BEING FOR ALL.

IMAGINE A FUTURE OF EXCITING COLOR, FORM, TEXTURE, LINE, FRAGRANCE, WILDLIFE, TRANQUILITY, AND DIVERSITY FROM OUR NEW GARDENS AS

'Mini-oases'







More Reflective of our Native Colorado



MAKE.

THANK YOU!

And,

Have a good evening!

Ken Ball, ASLA, RLA
MOUNTAIN SPIRIT STUDIO

6786 Salvia court Arvada, CO 80007 303-403-1434