# This presentation premiered at WaterSmart Innovations

watersmartinnovations.com





# Selling residential water efficiency: The MLS Green Features Addendum

Frank Kinder Sr. Conservation Specialist

Wed Oct 4th 3:55-4:25- Sonoma B



- Share: Changes in Real Estate which monetize
   & communicate:
  - Water efficiency
  - management
  - sustainability

<u>Tools</u>: to implement these changes where you live

### Investments



- **ROI**: In the practice of water efficiency, part of discussion is **Return on Investment**.
- Simple Payback: how long the direct investment takes to pay for itself. Toilet-1year.
   ->Operating costs go down.
- Property Marketability: Can these projects raise the value of & differentiate my home?

# Past-Process



### Old School Home Buying System:



- Realtor-lead
- Driving around
- Knowledgecontrol
- ListingLimitations
- Experience
- Luck!

# It can feel like this....





# Past-Homes





### **Home Buying Attributes:**

- Price
- Location
- Style
- Bedrooms
- Bathrooms
- Cabinets
- Carpet
- Carports
- Condition

# New motivations... WATER COST

#### Water outlook & drought

As your local water provider, we have a responsibility to protect your water supply and help ensure the health, safety and economic vitality of our community. We carefully monitor several factors, including levels of our reservoirs, snowpack and forecasted stream flow.

As of June 30, 2017

#### Current situation

- In June, the average temperature was above average and precipitation was well below average.
- We currently have 3.4 years of demand in storage.
- Conditions expected to remain hot across Colorado this summer, with equal chances of above or below average precipitation.
- · Above average yield expected, runoff is nearly complete.
- We are monitoring streamflow, demand and storage to maximize
- Currently, the Water Shortage Ordinance is set at Stage 1 Voli continue to use water wisely.

Con the full report

Residential

Business W

Work With Us



CUSTOMER SERVICE >

WAYS TO SAVE V

ENVIRONMENT ...

SAFETY ×

COMMUN

#### **Drought persists**

As your local water provider, we have a responsibility to protect and carefully manage your water supply. Currently, we are actively planning for what is shaping up to be a serious drought year for Colorado Springs.

Colorado Springs is located in a semi-arid climate where drought conditions regularly occur. The U.S. Drought Monitor shows Colorado in moderate to exceptional drought conditions, which are forecasted to continue through at least 2013. Because our city isn't located on a major waterway, water is delivered to Colorado Springs from nearly 200 miles away.

Recent lower-than-normal snow pack, lack of significant precipitation and increased demand has strained

Colorado Springs' water supply. System-wide storage is at a near historical low of 48 percent; normal storage is 65 percent.

Water Restrictions, Landscape restrictions.



#### Related links

- · Water restrictions
- · Water saving tips inside the home
- · Water saving tips outside the home
- · Irrigation rebates

My Account

User ID

Password

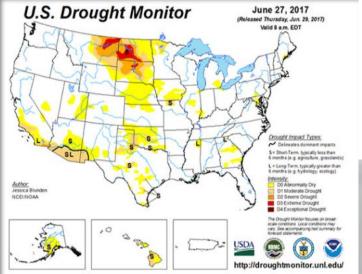
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# New water values...



- Scarcity
- Quality of life
- Stewards
- Environment
- Changes in landscape perception
- Maintenance, cost, impact
- Technology & Solutions
- Result-modifying homes to address concerns....
- Return on investment for Sustainability



# New Solutions



New and existing homes



**Utility Efficiency Rebates** 

- Fixtures
- Landscapes
- Systems









# Present-Homes





- Attributes:
- All of the above &
- Efficiency
- Conservation
- Safe & Healthy
- Affordable
- Sustainable
- "Green"



# Present-Process Democratized



realtor.com<sup>®</sup>









Images courtesy of company webpages. Couple buying home courtesy and Copyright http://directhousebuyer.co.uk/whos-actually-buying-property-moment/

# **Home Buying:**

- Online Research
- Buy Remote
- Direct buy
- Remodelers
- Flippers
- FSBO
- More details...
- Realtor controlled

# Greenthemls.org





NATIONAL Association of Realtors\*

Official Designation



#### **Value for Green Homes**



#### Documentation is key:

- √ Green building certificate
- ✓ Performance test results.
- ✓ Local green disclosure form.
- √ 12 month utility usage

# Some involved entities



#### High-Performance Homebuilding

- NAR's Green REsource Council
- Home Innovation Research Labs, National Association of Home Builders
- TBACOS
- EPA—ENERGY STAR
   Certified New Homes,
   Indoor airPLUS,
   WaterSense, Indoor
   Environments Division
- DOE—Building America Program
- RESNET
- Passive House Institute US

#### Existing Home Remodeling/Upgrades

- Air Conditioning Contractors of America
- DOE—Home Performance with ENERGY STAR.
- Elevate Energy
- Buildings Performance Institute
- National Home Performance Council
- Masco Home Services
- Vermont Green Homes Atliance

#### Other Programs

- Ingersoff Rand Residential Solutions
- HUD/EPA—
   Partnership for Sustainable
   Communities

- Walk Score®
- DOE EERE— Lawrence Berkeley and Sandia National Solar Labs

#### Real Estate Agents/MLSs

- Real Estate Standards
   Organization Robert
   Gottesman, CEO;
   Rob Larson, Chair,
   Data Dictionary
   Working Group
- Ben Kaufman (Ketler-Wittiams, Seattle-area)
- John Rosshirt (Stanberry & Associates REALTORS\*, Austin, TX)
- Northwest MLS (Seattle area)

- IRES—NET (northern Colorado)
- Traverse Area Association of REALTORS®
- LPS MLS Solutions

#### Appraisers

- Sandy Adomatis, Adomatis Appraisal Service
- Appraisal Institute

#### Consultants

- Social, Environmental & Economic Consulting, LLC
- Conservation Services Group (MLS Energy Project)

# Standards organizations



- Identify national standards for each major Green MLS category as a reference for enumeration definitions:
  - Energy Efficiency References: EPA and DOE reference materials (ENERGY STAR, EERE Fact Sheets, Energy.gov, etc.)
  - Energy Generation Reference: Sandia Labs PV Value Tool™
  - Indoor Air Quality References: EPA Indoor AirPLUS specifications,
    National Center for Healthy Housing's National Healthy Housing Standard
  - Locarion Enterprise Green Communities' 2011 Enterprise Green
     Communities Criteria
  - Sustainability USGBC LEED for Homes (Materials specifications),
     Home Innovation Research Labs National Green Building Standard™ (Resource Efficiency specifications)
  - Water Conservation EPA WaterSense specifications, <u>EPA Green</u>

     Infrastructure webpage, <u>City of Lancaster Green Infrastructure</u>

    Plan Appendix

# The Guide

Requires collaborative approach

Phases

Realtors

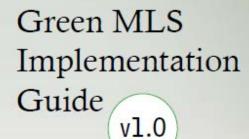
**Builders** 

**Appraiser** 

**Underwriters** 

Trades

Utilities



Brought to you by the

National Association of REALTORS® and NAR's Green REsource Council





# Communicating



- Green MLS fields are offered in three tiers:
  - 1. Third-party verified fields-Certification
  - 2. Marketing/Green search fields (general, non-verified)-*Retrofits*
- Technical fields (green features embedded into existing fields)-Details Up to your regional MLS body to implement.

# At-A-Glance: Green Search/Marketing Colorado Springs Utilities Fields

- GreenWaterConservation
- Water-Smart Landscaping
- Green Infrastructure
- Water Recycling
- Efficient Hot Water Distribution
- Low-Flow Fixtures (It says WaterSense later)

# At-A-Glance: Specific/Technical Field sto Springs Utilities

#### STRUCTURE FIELDS

- Interior Features
  - WaterSense labeled bathroom faucet(s)
  - WaterSense labeled toilet(s)
  - Dual-flush toilet(s)
  - WaterSense labeled urinal(s)!-future?
  - WaterSense labeled showerhead(s)
- Other stuff....

# At-A-Glance: Specific/Technical Field sto Springs Utilities

### LotFeatures (outdoor)

- WaterSense labeled irrigation controller
- Used WaterSense irrigation partner
- South/West Shading
- North Windbreaks
- Water-Smart Landscaping
- Native Plants
- Permeable Paving
- Vegetated Swale
- Certified Wildlife Landscape
- Gray Water System
  - All can be described in detail.

# Documentation matters Professional Designations help.



- Implementation & MLS-different everywhere!
- Realtors populate Marketing Fields
  - NAR Green Designation helps:
  - Green materials
  - Energy-efficient technology
  - Green ratings
  - Green design
  - Green incentives
  - Green living
  - And more

"Sixty-one percent of builders said that customers will pay more for a green home."

Source: New and Remodeled Green Homes. McGraw-Hill





# Appraiser Capability





- Professionals Providing Real Estate Solutions
- Valuation of Sustainable Buildings: Residential –
- A professional development program designation

	Cli	ent File #:		Appraisal F	ile #:			
<b></b>		Residential Green and Energy Efficient Addendum						
.IIII'IIIII		Client:						
AI Reports	Sul	Subject Property:						
Form 820.05*	Cit	y:		State:		Zip:		
Additional r	Additional resources to aid in the valuation of green properties and the completion of this form can be found at http://www.appraisalinstitute.org/education/green_energy_addendum.aspx							
The appraiser here			mation provided within this adde		спаатизрх			
<ul> <li>has been cor intended use</li> <li>is not provid by the appra</li> <li>is the result</li> </ul>	nsidered in er(s) identif ed by the a siser as the of the appr	the appraiser's fied in the appr appraiser for an client or intend raiser's routine	s development of the appraisal or raisal report and only for the inte ray other purpose and should not ded user(s) in the report. inspection of and inquiries abou	of the subject p ended use state t be relied upon ut the subject p	ed in the report. by parties othe roperty's green	er than those identified and energy efficient		
the appraise  is not made	features. Extraordinary assumption: Data provided herein is assumed to be accurate and if found to be in error could alter the appraiser's opinions or conclusions.  is not made as a representation or as a warranty as to the efficiency, quality, function, ope of the reported items or of the subject property in general, and this addendum should not assessments.							
throughout a building practice expands and	Green Building: The practice of creating structures and using processes that are environmentally restruction. This chroughout a building's lifecycle from siting to design, construction, operation, maintenance, renoved struction. This practice expands and complements the classic building design concerns of economy, utility, durabili US EPA). High Performance building and green building are often used interchangeably.							
water, (3) energy, (4)	materials, st measura	(5) indoor envi ble elements of	ing has attributes that fall into tl ironmental quality, and (6) main f green or high performance hot ontributory value.	ntenance and op		vn as (1) site, (2) Id water Velop an		
THIRD-PARTY VER	IFICATIO	NS (See type	es defined in glossary).					
			thin the appraisal analysis of the	subject proper	tv:			
Green Certification	Environme		n Agency (EPA):	☐ Indoor airP		Sense		
Certifications attest	Home Inn	ovation Resear	rch Labs NGBS Home Remodel:			<u> </u>		
that the home meets	Home Inn	ovation Resear	rch Labs NGBS New Home:	☐ Bronze		Gold		
certain minimum	_	ring Building Challenge (LBC): 🔲 Living Building Certified 🔲 Petal Certification						
thresholds.		s Standard:				Phit Passive House		
		ouse Institute L	JS:	□ PHIUS+ 201				
	USGBC LE	ED:		☐ Certified	☐ Silver ☐	☐ Gold ☐ Platinum		
	Other:				4 D O V (	AND VIE CHECKED		
	Date		rtification Version:			ONLY IF CHECKED: reviewed on site		
	Verified:	Organizat	HOH OKE:			reviewed on site attached to this report		

# Appraiser Capability



#### Appraisal Institute

Professionals Providing Real Estate Solutions

- Valuation of Sustainable Buildings: Residential –
- A professional development program designation

The following items  Insulation	are considered within	the apprais	al analysis of	f the s	ubject p	roperty:					
Insulation	☐ Fiberglass Blown-										
	☐ Fiberglass Blown-In ☐ Foam Insulation ☐ Cellulose ☐ Fiberglass Batt Insulation ☐ R-Value										
Building Envelope	Envelope Tightness:Unit:CFM25CFM50ACH50ACH natural Instructions: Insert the rating as a number that could be 0.5 to 7ACH50 or higher. The lower the number, the more air tight the envelope. Building Codes for area show maximum Envelope Tightness allowed based on the climate zone. Not all areas have adopted a building code. <a href="http://bcap-energy.org/">http://bcap-energy.org/</a>										
Windows	☐ ENERGY STAR®	□ Low E	☐ High Imp	act	☐ Stor	m	□ Doub □ Triple		☐ Tinted	☐ S Sha	olar des
Day Lighting	# Of Skylights: # Of Solar Tubes: Other (Describe): (% Of lighting LEDs):										
	ENERGY STAR®:   Dishwasher  Refrigerator  Washer/Dryer  Other:  Energy Source:  Propane  Electric  Natural Gas  Other:  Note: ENERGY STAR® appliances do not result in an ENERGY STAR® Home.										
	☐ ENERGY STAR®	Size: Tankles:	gallons	□ Sc	olar (nex	kt page)	☐ Hea	t Pump	□ Coil		
SEER: Efficiency Efficiency Rating:% Rating: Auxiliary hea AFUE*% COP: Radiant Floo Figure SEER: SEER: Geothermal?			ermostat/Controllers?			5	No No No No No No No No				
En Qualit	□ Energy (ERV) or Heat Recovery Ventilator (HRV) □ Other Measured Whole-House Ventilation Device (See glossary) □ Humidity Monitoring Device installed □ Reclaimed Water System (Describe): □ Rain Barrels Used in Irrigation					n System: Active gation		assive			
Utility Costs	☐ Greywater reuse system ☐ Water Saving Fixtures ☐ Cistern size: gallons ☐ Location of cistern: Annual Utility Cost: \$ /year, based on: / / to / / (full year).										
,	Includes (check all th	nat apply):	Electric	1 Heat	ing 🗆	Water	Other	:	# Of Occup		
Comments Include source for information provided in this section.	If a property is built the features. The m analysis of its label a building code. This d include higher energ	arket analysi Ione. Provid ocument is i	s is of the st e additional ntended for	ructur inform	e's phys nation th	sical, ecor hat illustr	nomic, an ates how	d location this prop	nal attribute erty exceed	s and s loca	not an

Completed by:	_Title:	Date:

# Owner/Seller

Populate Green Features Addendum- No Realtor liability

- -Easy
- -Improves Valuation

Standard/vetted -Source

#### **ENERGY / GREEN FEATURES ADDENDUM**

<u>Instructions</u>: This checklist is designed to be completed by the Seller or the Builder. Check all items that apply. Anything left blank does not apply or is unknown. Additional documentation such as receipts or information from manufacturers is also helpful, whenever available. Broker may deliver a copy of this Addendum to prospective buyers.

Propert	y Address				
City			State		Zip Code
Comple	eted By: Builder	Seller	Name(s)		Date
Comple	sted by. Dulider	Jeliei	rvaine(s)		Date
1.	Home Performance P	rograms	ome Performance with	ENERGY STAR	
2.	Construction Type:	SIPS Improved Insulation Other	☐ ICF ☐ Straw Bale	☐ Material Efficient Fr☐ Earthen Built / Ram	
3.	Heating, Cooling and Ventilation: (check box for each type)	Ground Source Heat  *Tankless / On Demar  Evaporative Cooling  *High SEER A/C  SEER Rating		Whole House Fan High Efficiency Wate Insulation Air Sealin	ace / Boiler (eg. > = 90% AFUE)  Ceiling Fans er Heater (eg. > = 90%, or EF > = .82 for gas) g Upgrades Completed South Facing Overhangs)
4.	Water Efficient Features:	Low Flow Toilets Low-water sod *Xeriscaping		Low Flow Fixtures / Hot Water Recircula * Greywater System	Shower Heads tion Pump / Structured Plumbing
	Indoor Air Quality:		•	cumentation required)	■ No or Low VOC Paint ■ Radon Mitigation System
	Sustainable	FSC Certified Lumber		FSC Certified Cabine	,
	Materials:	Reclaimed Flooring		<ul> <li>Sustainable Flooring</li> </ul>	Regionally Harvested
	Energy Features:	*ENERGY STAR / Low  *Orientation / Passive  ENERGY STAR Rated	Solar Design		Automated Lighting Controls High Efficiency Lighting *Programmable Thermostat
8.	ENERGY STAR Appliances	*Refrigerator	*Range / Oven	*Dishwasher	☐ Clothes Washer
*ADDITI	ONAL COMMENTS:				

<sup>\*</sup>Asterisks indicate fields that are the same on both the "Green Features Addendum" and the Appraisal Institute "Residential Green and Energy Efficient Addendum" forms.





# THESE LENDERS WANT TO MEET APPRAISERS AT VALUATION EXPO



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# Understanding the Residential Green and Energy Efficient Addendum



Search



#### **APPRAISERS** E&O INSURANCE

- ➤ Discounts for multi-appraiser firms
- ➤ Prior Acts Coverage available
- Easy, online application

https://www.appraisalbuzz.com/understanding-the-residential-green-and-energy-efficient-addendum/

http://www.resnet.us/blog/wp-content/uploads/formidable/AI-Residential-Green-and-Energy-Efficient-Addendum-Handouts Compatibility-Mode.pdf

# Start here





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