

## TAKE ME TO THE RIVER

**Constance Congdon** 

DRAMATURG'S BOOK

Thais Flaitt Giannoccaro

UNO – March 2013



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## TAKE ME TO THE RIVER by Constance Congdon



	Out on the Sherm's land NW Colorado	Mamie's home- by the pool – Scottsdale, AZ	Sherriff's office	Mamie's home	Nazarene Church Sanctuary	Roy's Bar	Outside by the River	Out on a prairie/ in the pickup	Inside the lobby of The Marriot	Outside near Sherm's house	Conference room at The Marriot	Out in the fields	Mom's old garden	A large public meeting	Sherm's land – water pump
Act/Scenes	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	1.10	2.1	2.2	2.3	2.4	2.5
Characters/Actors															
Sherm Campbell Paul Boesing	SC		SC		SC		SC			SC		SC	sc	SC	sc
Henry Fox	HF		HF		HF	HF							HF	HF	
Mamie Steinmetz Teresa Sindelar		MS		MS					MS	MS	MS		MS	MS	
Bodie Campbell Nick Zadina		BC (vo)	ВС	BC (vo)	ВС	ВС			ВС	ВС		ВС	ВС	ВС	ВС
Theresa Montoya Amy Kunz			TM		TM		TM	TM			TM		TM	TM	TM
Hannah Jefferson Tammy Ra'					HJ	H		HJ			HJ			HJ	
Dale Leonard Ben Birkholtz					DL									DL	
Carl Mike Markey					С									С	
Roger MacDonald Jeff Bell						RM					RM				
Roberto, the Sheriff; Bar Employee; George Vega Moises Salgado			S			BE								GV	
Section															
# pages	1/2p	1p	9p	2p	19p	8 1/2p	5 1/2p	2p	7 1/2p	5p	9p	5р	9p	9p	3р
pages #	4	4-5	5-14	14-16	16-34	35-44	44-49	50-51	52-59	59-65	66-75	75-80	80-89	89-97	97-100

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_																		
	Sherm shoors HF Out on the Sherm's land NW/ CO	Bodie calls Mamie Mamie's home- by the pool Scottsdale, AZ	Sherriff's office	Rifle and Indians	Teresa comes in	Henry Fox does not press charges	Sherm insults Roberto	Things are gonna get worse	Talking to her realtor Mamie's home	Setting up the meeting Nazarene Church Sanctuary	Riparian zone dispute. Kansas is suing CO	The Indians' rights	Bodie and Hannah arguing People's rights	Carl's venting	Brother's talk Roy's Bar	Hannah comes in	The British Investor	Stubborn Sherm
Act/Scenes	1.1	1.2	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.5	1.5	1.5	1.5	1.5	1.6	1.6	1.6	1.7
Characters/Actors	1			1.0		1.0				1.0	1.0		1.0		1.0		1.0	
Sherm Campbell	SC		SC	SC	SC	SC	SC			SC	SC	SC						SC
Paul Boesing																		
Henry Fox	HF					HF						HF			HF	HF		
riciny rox	'''					•••						•••			•••			İ
Mamie Steinmetz		MS							MS									
Teresa Sindelar																		
Bodie Campbell		ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	ВС	
Nick Zadina									(vo)									
Theresa Montoya					TM	TM					TM	TM						TM
Amy Kunz																		<u> </u>
Hannah Jefferson										HJ	HJ		HJ			HJ	H	İ
Tammy Ra'											- DI	<b>D</b>						
Dale Leonard										DL	DL	DL						İ
Ben Birkholtz Carl										С	С	С		С				1
Mike Markey												C						İ
Roger MacDonald																	RG	
Jeff Bell																		İ
Roberto, the Sheriff; Bar			S		S	S	S	S								BE		
Employee; George Vega																		İ
Moises Salgado																		ĺ
Section			Α	В	С	D	Е	F		Α	В	С	D	Е	Α	В	С	
# pages	½p	1p		2p	3р	1p	1 ½p	2p	2p	4p	6р	6p	2p	½p	4½p	2р	2½p	5 ½
pages #	4	4-5	5	5-7	7-10	10-	11-	13-	14-16	16-19	20-26	26-	31-34	34	35-39	39-41	41-44	44-4
					<u> </u>	11	13	14p			<u> </u>	31	<u> </u>		$\vdash$			Ш
																J		
s Flaitt Giannoccaro - updated March	19, 2013				9 ½	p						19p				9p		

19p

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	Theresa wants to be with the winners. Out on a prairie/ in the pickup	The drunk Bodie. Lobby of The Marriot	Sherm wakes up from a dream. Near the house in a lawn chair	The lonely Sherm	The presentation Conference room at The Marriot	The silent partners	Dad and son left behind. Out in the fields	Mamie is moving back Mom's old garden	Sherm and Theresa catch up	Bad news for The Camplbells	Henry tries to teach Mamie a lesson.	Trying to keep the land A large public meeting	Sherm asks for help	Mamie gives her money to the robber-barons	Bodie and Sherm stay Sherm's land – water pump	Sherm goes through his
Act/Scenes	1.8	1.9	1.10	1.10	2.1	2.1	2.2	2.3	2.3	2.3	2.3	2.4	2.4		2.5	2.5
Characters/Actors																
Sherm Campbell			SC	SC			SC	SC	SC	SC			SC	SC	SC	SC
Paul Boesing																
Henry Fox											HF	HF*	HF	HF		
Mamie Steinmetz		MS	MS			MS	1	MS		MS	MS			MS		$\vdash$
Teresa Sindelar																
Bodie Campbell		ВС	ВС				ВС	ВС		ВС		ВС	ВС	ВС	ВС	ВС
Nick Zadina			1 line													
Theresa Montoya	TM				TM	TM		TM	TM	TM		TM	TM	TM		TM
Amy Kunz																
Hannah Jefferson	HJ				HJ	HJ						HJ*	HJ			
Tammy Ra'																<u> </u>
Dale Leonard												DL	DL	DL*		
Ben Birkholtz												_		0.4		<u> </u>
Carl Mike Markey												С	С	C*		
Roger MacDonald					RM	RM										-
Jeff Bell					KIVI	KIVI										
Roberto, the Sheriff; Bar												GV	GV	GV*		$\vdash$
Employee; George Vega																
Moises Salgado																
Section			Α	В	Α	В		Α	В	С	D	Α	В	С	Α	В
# pages	2p	7 ½p	5p	1p	6р	3р	5p	3р	2p	2р	3р	3р	4p	1 ½p	3p	½p
pages #	50-51	52-59	59 -64	64-65	66-72	72-75	75-80	80-82	82-	84-86	86-89	89-92	92-96	96-97	97-	100
							1	_	84		1	1	<u> </u>	1	100	Ь——
* no lines													$\neg$			
is Flaitt Giannoccaro - updated March			6p <b>"</b>		9p				10	)n			9p			



#### **Characters Description**

SHERM CAMPBELL (played by Paul Boesing) - a lifetime farmer from a long line of farmers, age 78.

HENRY FOX (actor TBA) - a Native American man, Ute Nation, age 35, works for the Department of Natural Resources as a ditch rider, someone who checks water usage from canals. Henry grew up in the area and was married to Mamie Campbell, Sherman's only daughter. They are divorced, her idea.

MAMIE STEINMETZ (<u>played by Theresa Sidelar</u>) - 37, daughter of Sherm, recent widow of Lou Steinmetz, the mother of Simone, a neurotic little dog only heard or seen in her carrier, usually zapped on Valium, and Mooshie a bigger dog. Mamie was formerly married to Henry Fox.

BODIE CAMPBELL (<u>played by Nick Zadina</u>) - Sherm's youngest son, and since the oldest Campbell son, Bruce, was killed in the first Gulf war, Bodie is the only brother. Age 33.

THERESA MONTOYA (played by Amy Kinz) - the middle-aged (55+) daughter of the Campbell's long-time neighbor, Jose Montoya. The Montoya farm abuts part of the Campbell land. Theresa and her brother have tried to keep their place, a former cattle ranch, working. Theresa is a close family friend who, after Sherm's wife died ten years ago, became Sherm's lover.

HANNAH JEFFERSON (<u>played by Tammy Ra'</u>) - African-American, 40 plus, born in a nearby city, she has spent two decades in the area, working in finance and real estate. Has a crush on Bodie and hopes it's visa versa.

DALE LEONARD (<u>played by Ben Birkholtz</u>) - age 40, a former hometown boy, went to the first Gulf War with Sherm's oldest son, Bruce, and two of Theresa's brothers but survived, came back and got a degree in environmental science and now works for the Colorado Department of Natural Resources. Lives in Denver.

CARL (played by Mike Markey) - a mouthy local farmer, fed up, has four sons with questionable futures.

ROGER McDonald (played by Jeff Bell) - a British businessman, looking to invest in western land

#### OTHER CHARACTERS (played by Moises Salgado)

- SHERRIFF a small-town lawman, Hispanic, knows everyone, also a rancher—most people pronounce his name, Roberto, as "Roberdo," making no effort to roll either of the "r"s or elongate the "e."
- BAR EMPLOYEE, at Roy's bar.
- GEORGE VEGA, a government official from the DNR. Half Native American. Half Hispanic.



Page #	Term/Allusion	Meaning/Explanation	Pronunciation/Image
2	Ute Nation	The oldest continuous residents of Colorado. It is not known exactly when the Utes came from the north and west and inhabited the mountainous areas of the present-day states of Colorado, Utah (which name comes from the Ute people), and New Mexico.	оуругіанt 2001, uleindian.com
2	Ute	Land of the Sun	
2	Department of Natural Resources	The Colorado Department of Natural Resources is the department of the government of the U.S. State of Colorado that is responsible for the development, protection, and enhancement Colorado natural resources for the use and enjoyment of the state's present and future residents, as well as for visitors to the state.	
2	The First Gulf War	The Gulf War (2 August 1990 – 28 February 1991), codenamed Operation Desert Storm (17 January 1991 – 28 February 1991) was a war waged by a U.Nauthorized Coalition force from 34 nations led by the United States, against Iraq in response to Iraq's invasion and annexation of Kuwait.	Ash Shuwaykh  Ash Shuwaykh  Ash Shuwaykh  Mina' al Ahmadi  Ash Shu aybah  Mina' 'Abd Allah  Mina' 'Abd Allah  Oarih  SAUDI ARABIA  O 25 50 km  O 25 50 km
3	Environmental Science	is a multidisciplinary academic field that integrates physical and biological sciences, (including but not limited to	





### ecology, physics, chemistry, biology, soil science, geology, atmospheric science and geography) to the study of the environment, and the solution of environmental problems. Environmental science provides an integrated, quantitative, and interdisciplinary approach to the study of environmental systems. 3 Northeastern Northeastern Colorado consists of the Colorado geographical area bordered by the Rocky Mountains to the west and the Colorado Springs area to the south. The metropolitan areas of Denver, Fort Collins and Boulder are encompassed in this as well as the Cheyenne, Wyoming, area and other attractions directly across the region's northern border. 3 Nazarene Church The Church of the Nazarene is an evangelical Christian denomination that emerged from the 19th-century Holiness movement in North America. With its members colloquially referred to as Nazarenes, it is the largest Wesleyanholiness denomination in the world 3 Scottsdale, Az is a city in the eastern part of Maricopa County, Arizona, United States, adjacent to Phoenix

		ACT 1	
Scene 1			
4	Rifle	is a firearm designed to be fired from the shoulder, with a barrel that has a helical groove or pattern of grooves ("rifling") cut into the barrel walls.	
Scene 3			
8	Virgin of Guadalupe	Nuestra Señora de Guadalupe is recognized as a symbol of all Catholic Mexicans. The peasant Juan Diego saw on the slopes of the Hill of Tepeyac a vision of a girl of fifteen or sixteen years of age, surrounded by light. Speaking to him in Nahuatl, the local language, she asked that a church be built at that site, in her honor; from her words, Juan Diego recognized the Lady as the Virgin Mary	
Scene 5			
16	Ogallalah Aquifer	The Ogallala Aquifer, part of the High Plains Aquifer System, is a vast yet shallow underground water table aquifer located beneath the Great Plains in the United States.	Wypming Booth Darking  Colvinor  Formal
16	Flyover States	Flyover Country and Flyover States are Americanisms describing the region of the United States between the East and the West Coasts. The terms, which are often used in a pejorative sense, refer to the	



### **Glossary of Terms and Concepts**

		regions of the country passed over during	
		transcontinental flights—e.g., flights	
		between the nation's two largest cities,	
		New York City and Los Angeles. Flyover	
		country thus refers to the part of the	
		country that many Americans only view	
		by air and never actually see in person at	
		ground level.	
18	Kumbayah	(Gullah, "Come By Here" — "Kum ba	Kum-bai-yah
		yah") — is a spiritual song from the	youtube:
		1930s. It became a standard campfire song	http://www.youtube.co
		in Scouting and summer camps, and	m/watch?v=1jjcxFGEy
		enjoyed broader popularity during the folk	<u>sE</u>
		revival of the 1960s. The song was	
		originally associated with human and	
		spiritual unity, closeness and compassion,	
		and it still is, but more recently it is also	
		cited or alluded to in satirical or cynical	
		ways which suggest false moralizing,	
		hypocrisy, or naively optimistic views of	
		the world and human nature.	
19	Riparian Zone	is the interface between land and a river or	
		stream.	
21	Scott City Lake	is located in the picturesque Ladder Creek	
		Canyon. Listed in National Geographic	7
		Traveler as one of the top 50 state parks in	*
		the U.S, this oasis-like setting is very	
		popular with campers and anglers.	



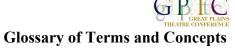
21	Riffle Beetle	Riffle beetle-is a tiny, seldom-seen insect that lives in the springs feeding into the	1
		lake. Because this beetle is found nowhere	
		else in the world, it has been listed as a	
		Kansas endangered species.	
22	Dust Bowl	was a period of severe dust storms causing	
		major ecological and agricultural damage	
		to American and Canadian prairie lands in	
		the 1930s.	
23	Arkansas River	The Arkansas generally flows to the east	200,0000
		and southeast as it traverses the US states	The or the same of
		of Colorado, Kansas, Oklahoma, and	The state of the s
		Arkansas. The river's initial basin starts in	Association of the contract of
		the Western United States in Colorado,	
		specifically the Arkansas River Valley,	
		where the headwaters derive from the	
		snowpack in the Collegiate Peaks. Then it	
		flows east into the Midwest via Kansas,	
		and finally into the South through	
		Oklahoma and Arkansas.	
Scene 6	'	'	
42	Yahoo	Drink	
		1 drop Rum, light (Bacardi)	
		1 1/2 oz. Liqueur, melon (Midori)	
		1 1/2 oz. Lime Cordial (Rose's)	
		1 1/2 oz. Vodka (Styka)	
		Fill with 7-up	
		2 dashes Grenadine (Rose's)	
	<u> </u>		



### **Glossary of Terms and Concepts**

42	GlenCoe	Early in the morning of 13 February 1692,	
		in the aftermath of the Glorious	
		Revolution and the Jacobite uprising of	
		1689 led by John Graham of Claverhouse,	
		a massacre took place in Glen Coe, in the	
		Highlands of Scotland. This incident is	
		referred to as the Massacre of Glencoe.	
Scene 7		referred to as the massacre of Glencoc.	
	TI DI LIV		
46	The Black Vomit	Jatropha is a species of flowering plant in	
	Nut	the genus Jatropha in spurge family,	
		Euphorbiaceae that is native to the	
		American tropics. When crushed and	
		processed, the jatropha plant's seeds	
		produce a sustainable, eco-friendly biofuel	
		that can be used in standard diesel engines	
		without modifications.	
Scene 8			
51	Cojones	is a vulgar Spanish word for testicles or,	ko'xones
		denoting courage when used in the phrase	
		"tener cojones" (equivalent to English	
		"have the balls to"). It is considered a	
		curse word when used by itself as an	
		expletive in Spanish. In English, as a	
		loanword, it means courage, brazenness,	
		"nerve", "guts", etc.	
Scene 9			
56	Molybdenum (Mo)	A hard, silvery-white metallic element	<sub>m</sub> ə₋l 1b də₋nəm
		used to toughen alloy steels and soften	ma-l₁p da-uam
		tungsten alloy. An essential trace element	
		in plant nutrition, it is used in fertilizers,	

		dyes, enamels, and reagents.	
Scene 10			
60	John Barleycorn	is a British folksong. The character of	
		John Barleycorn in the song is a	
		personification of the important cereal	
		crop barley and of the alcoholic beverages	
		made from it, beer and whisky. In the	
		song, JB is represented as suffering	
		attacks, death and indignities that	
		correspond to the various stages of barley	
		cultivation, such as reaping and malting.	
		ACT 2	
Scene 1			
75	Pancho Villa	José Doroteo Arango Arambula (5 June	
		1878 – 20 July 1923) – better known by	
		his pseudonym Francisco Villa or his	
		nickname Pancho Villa – was one of the	
		most prominent Mexican Revolutionary	
		generals.	
Scene 2			



77	Wyatt Earp	Wyatt Berry Stapp Earp (March 19, 1848  – Jan 13, 1929) was a city policeman ("assistant city marshal") in Wichita, Kansas and Dodge City, Kansas. Earp's modern-day reputation is that of the Old West's "toughest and deadliest gunman of his day."	
78	Clanton boys	a group of outlaw Cowboys that had ongoing conflicts with lawmen Wyatt, Virgil and Morgan Earp. The Clantons repeatedly threatened the Earps because they interfered with the Cowboys' illegal activities.	
Scene 3			
88	Mars	The fourth planet from the Sun and the second smallest planet in the Solar System.	
Scene 4			
90	EPA	Environmental Protection Agency (EPA or sometimes USEPA) is an agency of the United States federal government, which was created for the purpose of protecting human health and the environment by writing and enforcing regulations based on laws passed by Congress.	
91	Hoover Dam	is a concrete arch-gravity dam in the Black Canyon of the Colorado River, on the border between the US states of Arizona and Nevada. It was constructed	F

		hatryage 1021 and 1026 desires the C	
		between 1931 and 1936 during the Great	
		Depression and was dedicated on	
		September 30, 1935, by President	
		Franklin D. Roosevelt.	
91	Lake Mead	is the largest reservoir in the United States	and the same of th
		in maximum water capacity. It is located	
		on the Colorado River about 24 mi (39	
		km) from the Strip southeast of Las	
		Vegas, Nevada, in the states of Nevada	
		and Arizona. Formed by the Hoover Dam,	
		Lake Mead is 112 miles (180 km) long	
		when the lake is full, has 550 miles (890	
		km) of shoreline, is around 500 feet at	
		greatest depth, has 247 square miles (640	
		km2) of surface, and when filled to	
		capacity, 28 million acre-feet of water.	
		However, the lake has not reached this	
		capacity in more than a decade, due to	
		increasing droughts.	
91	White Cliffs of	The White Cliffs of Dover are cliffs which	
	Dover	form part of the English coastline facing	We have the
		the Strait of Dover and France. The cliffs	a) an amage and an area
		have great symbolic value in Britain	
		because they face towards Continental	
		Europe across the narrowest part of the	
		English Channel, where invasions have	
		historically threatened and against which	
		the cliffs form a symbolic guard.	
	1	I .	<u> </u>



	96	Patty Hearst	Patricia Campbell Hearst (born February	100
			20, 1954), now known as Patricia	
١			Campbell Hearst Shaw, is an American	
			newspaper heiress, socialite, actress,	S AN MATEO SHERRY HEARST P C
			kidnap victim, and convicted bank robber.	



### **Property List**

Scene	p.	Prop	Qua	Character/ Description
	3	antique pump head with a		SET???
		handle above a well		
Act 1				
1	4	rifle		
2	4	phone		Mamie
2	4	Pet carrier		Simone
2	5	cell phone		Bodie
3	11	piece of paper/pen		Sheriff -
4	15	cell phone		Mamie
5	16	visual aids (US map)		
5	15	table from a bar		SET???
5	17	piece of paper		Dale
5	31	handouts		Dale
6	35	shot glass		
6	35	napkins		
6	35	wallet		
6	35	money \$20s		
6	40	coke		(can/bottle/cup?)
6	42	draft of a prospectus		
6	42	cup drink		Roger – "Yahoo"
8	50	a pickup		SET? Chairs?
8	50	pickup headlights		SET?
9	55	coke		Mamie
9	55	coffee		from the vending machine
9	59	luggage cart		Marriot hotel
10	59	lawn chair		Sherm
10	64	cell phone		Sherm
Act 2				
1	66	prospectus		to the audience
1	66	a screen		??
1	71	cell phone		Hannah
1	72	water bottle		Mamie
1	72	Styrofoam coffee cup		
2	75	gear boxes		machinery
3	80	luggage		Mamie
3	80	glass with sweet tea		
3	80	lawn chairs		how many?
3	81	kennel box		Mooshie
3	82	make up case with stuff		Mamie
3	86	Simone is wrap in a shirt		
3	87	pill container		valium
4	89	piece of paper		Dale
4	95	cell phone		Henry Fox
5	99	coke	2	cans



#### **Settings:**

- Exterior of the Campbell's farm lawn chairs and antique pump head with a handle above a well (Act 1 - Scene 1, 10 / Act 2 – Scene 2, 3 and 5)
- Mamie's house by the pool in Scottsdale, AZ (Act 1 – Scene 2 and 4)
- Sheriff's office (Act 1 – Scene 3)
- Interior of the local Nazarene Church old table from Roy's bar (Act 1 – Scene 5)
- Roy's bar (Act 1 Scene 6)
- By the River (Act 1 – Scene 7)
- In a pickup (Act 1 – Scene 8)
- Lobby of the Marriot hotel (Act 1 – Scene 9)
- Conference Room at the Marriot hotel (Act 2 - Scene 1)
- Public Meeting Where? (Act 2 – Scene 4)



#### **Sound Plot**

Scene	p.	Cue	Description	Notes
ACT 1				
1 4 Sherman enters and shoots the riffle		Sherman enters and shoots the riffle	Riffle	
2	4	end of scene 1	Phone ring/dog barking	
2	4	Mamie: shut uppppp!	phone beep to go to voicemail	
2	4	Mamie: be quiet!	Simone's yips	
2	4	Mamie: Simone, always the last word	Mamie's voice on answering machine	
2	4	Mamie: no spaces dot org.	Bodie's voice on answering machine	needed??? Or live?
4	15	Mamie: place to stay in the meantime	Bodie's voice on answering machine	
4	16	Mamie: Lou! Why did you leave me?	Dogs barking	
8	52	Top of the scene	bad music	The hotel lobby
10	64	Sherm:or Theresa.	cell phone rings	Sherm
10	65	Sherm goes off stage	glass breaking	
ACT 2				
1	66	top of the Act	native American flute music / Ad	
1	71	Roger: that doesn't work for me	cell phone rings	Hannah
1	71	Roger: that doesn't work for me	dog barking (Simone)	
4	95	Dale:actually make a profit.	dog barking/cell phones	Bodie/Sherm/Henry
5	5 98 Sherm:it's just you and me, son sound of helicopters		sound of helicopters	
5	100	Bodie: Who?	sound of the word WATER	all languages



Water in all the world languages in brown: phonetical transcription

LANGUAGE	TRANSLATION
AFRIKAANS	water
ALBANIAN	uji
ALSATIAN	wàsser
APACHE	tū
ARABIC	el-ma / maa / mayya
ARMENIAN	djour
AZERI	su
BAMBARA	gui
BASQUE	ura
BELARUSIAN	Вада (vada)
BENGALI	jal
BERBER	amane
ВОВО	zou
BOSNIAN	voda
BRETON	dour, deur
BULGARIAN	voda
BURMESE	yei
CATALAN	aigua
CHECHEN	hi
CHEROKEE	ama
CHINESE (MANDARIN)	水 (shuǐ)
CORSICAN	acqua
CROATIAN	voda
CZECH	voda
DANISH	vand
DUTCH	het water
ENGLISH	water
ESPERANTO	akvo
ESTONIAN	vesi
FAROESE	vatn
FINNISH	vesi
FRENCH	eau
FRISIAN	wetter
FRIULAN	aghe
GALICIAN	auga
GALLO	iò
GEORGIAN	tskhali
GERMAN	das Wasser
GREEK	nero
GUARANÍ	у
HAITIAN CREOLE	dlo

HAWAIAN	wai
HEBREW	maim
HINDI	paani
HUNGARIAN	víz
ICELANDIC	vatn
INDONESIAN	air
IRISH GAELIC	uisce
ITALIAN	acqua
JAPANESE	mizu
KABYLIAN	amane
KANNADA	neeru
KHMER	thuk
KINYARWANDA	amazi
KOREAN	mool
KURDISH	av
LAO	nam
LATIN	aqua (ae, f)
LIGURIAN	ægoa
LINGALA	mayi
LITHUANIAN	vanduo
LOW SAXON	water
LUXEMBOURGEOIS	waasser
MACEDONIAN	voda
MALAGASY	rano
MALAY	air
MALAYALAM	vellam
MALTESE	ilma
MAORI	wai
MAPUCHE (MAPUDUNGUN)	ko
MARATHI	paani
MONGOLIAN	us (yc)
MORÉ	kôm
NORWEGIAN	vann
OCCITAN	aiga
ORIYA	jala / paani
OSSETIAN	дон
PAPIAMENTU	awa
PERSIAN	âb
POLISH	woda
PORTUGUESE	água
ROMANI	pani
ROMANIAN	apă
RUSSIAN	voda
SARDINIAN	abba (logudorese) / acua (campidanese)
SCOTTISH GAELIC	uisge
SERBIAN	voda



by constance conguen	
SESOTHO	metsi
SHIMAORE	magi
SHONA	mvura
SINDHI	panhi
SINHALA	vatura (spoken) / jalaya (formal)
SLOVAK	voda
SLOVENIAN	voda
SOBOTA	voda
SONINKÉ	dji
SPANISH	agua
SWAHILI	maji
SWEDISH	vatten
TAGALOG	tubig
TAHITIAN	pape
TAMIL	ta-neer
TATAR	su
TELUGU	neeru
THAI	nám
TURKISH	su
UDMURT	vu
UKRAINIAN	voda
URDU	pani
VIETNAMESE	nuoc
WALOON ("betchfessîs" spelling)	aiwe
WELSH	d^wr
WEST INDIAN CREOLE	dlo
XHOSA	amanzi
YIDDISH	vasser
YORUBA	omi
ZULU	amanzi



#### About the Playwright

CONSTANCE CONGDON has been called "one of the best playwrights our country and our language has ever produced" by playwright Tony Kushner in Kushner's introduction to her collection *Tales of the Lost Formicans and Other Plays*. In addition to *Tales of the Lost Formicans*, which has had more than 200 productions, worldwide. Congdon's plays include: *Casanova, Dog Opera*, both produced at the Public Theatre, *No Mercy* (HumanaFestival), *Losing Father's Body* (Portland Stage (Maine), *Lips*, (Primary Stages), *Native American*, (Portland Stage(Maine), (Lyric Hammersmith Studio).

Her latest play, *Paradise Street*, was most recently workshopped at the JAW Festival at Portland Stage in Oregon. Three commissions from the American Conservatory Theater: *A Mother*, starring Olympia Dukakis, a new verse version of *The Misanthrope*, and a new adaptation of *The Imaginary Invalid*, were all produced by ACT and have gone on to other productions. Also at ACT: *Moontel Six*, a commission by the A.C.T. Young Conservatory and subsequently performed at London's National Theatre, followed by another production of the two-act version at San Francisco's Zeum and directed by Young Conservatory Director, Craig Slaight. *The Automata Pietà*, another YC commission, received its world premiere at San Francisco's Magic Theatre in 2002; *Nightingales* went to the Theatre Royale Bath's Youth Theatre. Congdon's *No Mercy*, and its companion piece, *One Day Earlier*; were part of the 2000 season devoted to Congdon at the Profile Theatre.

She has also written a number of opera libretti and seven plays for the Children's Theatre Company of Minneapolis. *The Children of the Elvi*, Congdon's epic and NOT suitable for children, finally received its premiere at the Key City Public Theater in 2007. Congdon's plays have been produced throughout the world, including Cairo and Berlin. Her plays are published, mainly, by



Broadway Plays Publishing. Samuel French published Dog Opera. A collection of four of her plays has been published by TCG, Inc. Her new verse version of *Tartuffe* will be included in the next Norton Anthology of Drama, and is out in a single-volume Norton Critical edition. She's been writing a long time and can thank the NEA, the Rockefeller Foundation, the W. Alton Jones Foundation, the Guggenheim Foundation, the Arnold Weisberger Award, the Berilla Kerr Award, and, most recently, The Helen Merrill Award for making this more possible. She's an alum of New Dramatists, member of The Dramatists Guild and of PEN. Congdon has taught playwriting at the Yale School of Drama, but her home is as playwright-in-residence at Amherst College where she's been teaching for a couple of decades.

#### Published Plays:

BOARDERS - Three short plays about apartment dwellers, with an epilogue by their landlady.

MOTHER - is an exhilarating blend of one of Chekhov's dysfunctional provincial families run through the wringer of Joe Orton's iconoclastic comedy. It's also Maxim Gorky through and through, providing a canny look at Gorky as a dramatic bridge between Chekhov and Brecht. The play is adapted from Gorky's play Vassa Zheleznova. Vassa, a kind of proto-Mother Courage, is the head of a family one generation removed from serfdom and facing a crisis. The husband with whom she's built a fairly successful peat mining and tile-making business is dying upstairs. Without a will, all their possessions will pass to their two sons—the uselessly self-pitying Pavel and the slothful, self-indulgent Semyon, a man who can no longer fit into any of his clothes except pajamas.



NO MERCY - It begins in 1945 at the Jormada del Muerto area in New Mexico, where Robert

Oppenheimer and other scientists were putting together the atom bomb, and it moves into the present through the life of a soldier, Ray, who was one of the witnesses to the first blast.

LIPS - President Joni, the first woman to be elected to that office, is a politician with heart who wants to bring the issue of gay rights to her party's political platform. She wants to confront and change the laws that discriminate against her gay and lesbian constituents.

DOG OPERA - Peter and Madeline have been friends since they were teenagers in Queens. They have Manhattan apartments and separate unsatisfactory sex lives. Though more loving than most couples and searching for partners, they are incompatible: he is gay. Maddi is overweight and drawn to men who treat her badly. He hides behind snappy retorts and skepticism. Maddie's alcoholic mother, Peter's father, lovers, pickups, and friends with AIDS move through their lives. A homeless teenager, a thief and a poet who would rather be called a whore than a hustler because he doesn't try that hard address the audience to throw everyone's problems into perspective.

UNDER LUBLANKA SQUARE - A young American tourist has a run in with a Russian street vendor.

The two are lost in translation when a KGB member steps in and sways the girl in his favor.

LOSING FATHERS' BODY - Just days before the funeral Pauline and her two children loose her husband's body.

*TALES OF THE LOST FORMICANS* - Trapped in a planned community where nothing works as planned, the characters search for explanations in their dreams and in the artifacts around them--for even in Formica there may be a fleck of God. In Tales of the Lost Formicans, we finally meet the aliens, and they are us.

## Drought hits Colorado in Constance Congdon's farm drama, Take Me to the River

GREENFEBRUARY 24, 2009BY: SUSANNA SPEIER Subscribe



photo of C. Congdon taken by S. Speier

I got a rare glimpse of one of Colorado's most controversial environmental conundrums –water rights– earlier this month at the Ricketson Theater when I went there to see a staged reading of Constance Congdon's, "Take me to the River." Congdon's farm drama, commissioned Denver Center's New Play program, explored the political and environmental implications of water rights in Colorado.

Though the issues are clearly meticulously researched, the ill fated, provincial Colorado family that the story revolves around is humanizing, accessible and not in the least, contrived. As the misfit members of this outspoken, funny, angry and lovable family fight one another, their neighbors and the state of Colorado for their most essential natural resource, water, the audience gets sucked in. The naturally resource we usually taken for granted –or lack of it— can destroy a family. It can also bring an entire civilization down.

The love, concern and understanding of the region emanates from the Congdon's personal connection to it. Her parents were both born on farms, her mother's father farmed dryland wheat outside Dodge City and has family living on working farms today. Congdon was, therefore, acutely aware of the issues faced by farmers as she was growing up in Colorado and Kansas. It is the authenticity of the characters and dialog that keep this incredibly complex and potentially top heavy subject matter buoyant and fast paced throughout the narrative.

"Take me to River" was commissioned by the Denver Center New Play Program and was partially funded by the Albert P. Sloan Foundation in its support of the commissioning and production of new plays about science and technology. It was read on Friday, February 13 at 11am and Saturday, February 14 at 3pm in the Ricketson Theatre and will hopefully be restaged in Denver soon.

### Topical tale of farm troubles in Key City play



Massachusetts playwright Constance Congdon's "Take Me to the River" will be given a staged reading Monday at Port Townsend's Key City Playhouse.

By Diane Urbani de la Paz Peninsula Daily News

PORT TOWNSEND — The future of family farms, the arrival of developers and the water of life all converge in "Take Me to the River."

And though it's a play about two clans living along the Colorado River, "Take Me" is topical in any part of the country where farming, water rights and housing tracts add up to trouble.

Key City Public Theatre's WordPlay program will present a staged reading of "Take Me," written by Massachusetts playwright Constance Congdon, at 7 p.m. Monday at the Key City Playhouse, 419 Washington St.

Admission to this WordPlay reading is a suggested donation of \$10.

#### 11 local actors

Eleven local actors will bring to life the story of the Campbell family and their friends the Montoyas, former migrant farm workers who now have their own land.

Trouble is, drought has dropped the river down. The state natural resources department has required some farmers to shut down their wells.

Housing developers come in. They want to build condominiums, which they say will be less of a drain on the area's water resources.

At the same time, a younger member of the Montoya family questions whether she wants to continue working the farm for the rest of her life, sunup till sundown.

Congdon, who teaches playwriting at Amherst College, came to Port Townsend earlier this year as the guest playwright at Key City Public Theatre's February Playwrights' Festival. Key City presented her play "Lips" in the spring.

Congdon's "Take Me" has been workshopped and given staged readings at the Denver Center Theatre and at the University of Massachusetts in Amherst.

The playwright hopes this story will inspire people to mull questions like: What will happen to small family farms? How will water rights be allocated for the farms and housing developments of the future?

"At the end, [the play] gets big. It gets global," Congdon said.

The patriarch of the Campbell family, in his 70s, begins to hallucinate. What he sees are people stealing from his well.

"It turns out," the playwright said, "that he's seeing the world."

The actors presenting "Take Me to the River" are Kristin Wolfram, Doug Taylor, David Hundhausen, Caleb Peacock, Pauline Morgan, David Baker, Amy Sousa, Henry Feldman, Michael Vicha and Patti Quintero, with Michelle Hensel providing the voice-over.

Tickets are available in advance by phoning 360-385-5278 (KCPT) or visiting www.KeyCityPublicTheatre.org.

Remaining tickets will be sold at the playhouse door Monday night.

Features Editor Diane Urbani de la Paz can be reached at 360-452-2345, ext. 5062, or at <a href="mailto:diane.urbani@peninsuladailynews.com">diane.urbani@peninsuladailynews.com</a>.

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For 2012, WordPlay will present staged readings of two plays by our special Playwrights' Festival guest **Constance Congdon...** 

Fall WordPlay: **"Take Me to the River"** by Constance Congdon on Monday Nov 5 at 7:00 p.m.

Mon Nov 5 - 7:00 p.m. [Online Tix]



"Take Me to the River" reading Monday November 5







Water rights in Colorado is the subject of the next play to have a staged reading during Key City Public Theatre's WordPlay, as Constance Congdon's "Take Me to the River" is presented Monday November 5 at 7:00 p.m. at Key City Playhouse. Congdon is KCPT's 2012 featured guest playwright and this play becomes even more relevant in light of the severe drought in the Midwest this summer.

"Take Me to the River," the story of competing interests vying for the water of the Ogallala underground water aquifer, is based on true events, but with fictionalized characters. The central figures are a father, son and daughter from a farming community whose rights to take water from the aquifer are being challenged by large







KCPT is funded in part by generous grants from:

U.S. Bancorp Foundation USbank.

**Target** 

urban areas. The government has agreed to close the wells in outlying farming communities to preserve the flow to the urban areas.



For the director Patricia Earnest, water and it's preciousness has long been an important subject as she lives on Marrowstone Island with a well. Marrowstone has had it's own water issues which has pitted neighbor against neighbor, some favoring the new piped-in water, some preferring to stay on wells. "This play is about money," Earnest said, "and what people are going to eat without water for farms."

**KCPT's WordPlay Reading Series** originally was just the reading of various plays, but over time has evolved to almost a full play with the actors using scripts. The plays are still read but the goal is for the audience to completely visualize what the playwright intended the audience to see. WordPlay - which happens only twice a year - now focuses on the work of KCPT's guest artist exclusively. In the Spring, Congdon's play "Lips" was presented.

The readers for "Take Me to the River" are Kristin Wolfram, Doug Taylor, David Hundhausen, Caleb Peacock, Pauline Morgan, David

Baker, Amy Sousa, Henry Feldman, Michael Vicha, Patti Quintero and Michelle Hensel doing the voice over.

KCPT's season sponsors are Alchemy Bistro & Wine Bar and SOS Printing. "Take Me to the River" starts at 7 p.m. on Mon., Nov. 5 at the Key City Playhouse. Doors open at 6:00 p.m. Admission is a suggested donation of \$10. To purchase tickets in advance call 360-385-KCPT or visit our **online calendar**.



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arts.wa.gov

Jefferson County Community Foundation 2012 Spring WordPlay: "**Lips**" by Constance Congdon June 4 & 5

The first woman President is caught in a web of scandal, corruption, blackmail and deceit.

Note that "Lips" includes adult language and sexual situations. It runs about 2:15 including intermission.

Directed by Judith Glass Collins

Mon June 4 - 7:00 p.m. Tue June 5 - 7:00 p.m.

## WordPlay Archives 2011

For 2011, WordPlay presented staged readings of two classic plays by our special Playwrights' Festival guest **Lee Blessing...** 

"Eleemosvnarv"

Ute Indian - Tribal History 3/19/13 8:46 AM

## Tribal History

Here we present a brief profile of the Ute Indian tribe, the people from the land of the sun for whom the state of Utah is named.



#### **History**

the Ute Indians; of the Shoshone Indian linguistic stock, were originally divided into seven nomadic, and forest-dwelling tribes which lived on vast territory in Colorado and parts of Utah and northern New Mexico prior to he arrival of the European settlers; they were the Capote, the Mouache, the Parianucs, the Tabeguache, the Uintah, the Weeminuche, and the Yampa.

Ute, which means "land of the sun" also gave the state of Utah its name. The Ute Indians lived in in bark covered teepee-like huts called wickiups, these were bulkier and less easy to relocate than the teepee, which they later converted to for practical reasons. Ute clothing was made from deerskin and the fur of small animals such as minks and jackrabbits.

As it was with many of the American Indian aboriginals, the Ute's religious beliefs were based in nature, with animals serving as the central deities. The Ute believed they were closely related to the bear, and animal which features prominently in Ute mythos. Ute Shamans were believed to be very powerful, and in the Spring, the Ute would gather for the annual Beardance, also known as "Momaqui Mowat", followed in the Summer by the Sundance, which was their most important social and religious ceremony.

The Ute were very respectful of the environment, never overexploiting its resources, and they would not hunt for sport, but only for food and clothing. Ute land included hunting grounds, along with places of spiritual importance.

The Ute were polygamous, which means the men were allowed to have several wives, this is perhaps the only thing they had in common with the Mormon settlers, with whom the Ute were often in conflict.

Whilst not being sedentary and not growing crops, the Ute way of life was greatly influenced by outsiders such as the Spanish, who

Ute Indian - Tribal History 3/19/13 8:46 AM

introduced them to horses, which the Ute referred to as "Magic Dogs", and of course, the Mormon settlers who introduced them to agriculture. Soon, the Ute were raising livestock, exploiting land and most importantly, thanks to the added convenience being able to ride on horseback, hunting buffalo; which they practically wiped out of existence in Ute land. Eventually, the Ute became deft traders of both livestock and slaves, who were basically conquered enemies sold into labor.

However, things were not so with the Northern Ute or "Noochew" from Colorado, who were opposed to changing their lifestyle, and instead proceeded to raid Mormon settlers who were encroaching on Ute territory. Unfortunately, they were defeated by the colonists, and forced to relocate onto the Uintah Valley Reservation upon orders from US President Abraham Lincoln.

This pattern was quite common with many of the First peoples who were driven from their land by European settlers, and even though the conflicts were bloody, some sought other means with which to achieve peaceful co-existence, such as the great Ute Chief Ouray, who even went to Washington with his wife <a href="Chipeta">Chipeta</a> to try and stop the relocation of his tribe. Ouray was fluent in several Native languages, and also spoke English and Spanish, his great skill at diplomacy led to the first successfully arranged treaty between the Ute and the US Government.

There are currently around 3500 Ute Indians living on the Uintah and Ouray Reservations in Utah, they own 1,300 000 acres of land on which they operate their own government, exploit their own resources, and continue to promote their heritage. Ceremonial dances are performed are performe throughout the year on the major reservations, and an annual PowWow is held at the Tribal Headquaters in Fort Duchesne.

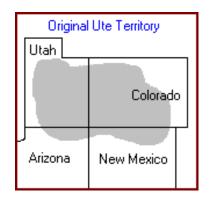
See our <u>resource</u> page for addresses and other important contact information.

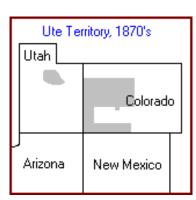


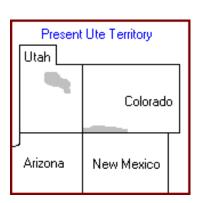
#### Ute Mountain Ute Tribal History

Historically, the Ute Nation roamed throughout Colorado, Utah, and northern New Mexico in a hunter-gatherer society, moving with the seasons for the best hunting and harvesting. Their dealings with the government were not to their benefit and in the late 1800's, treaties with the Untied States forced the three bands of Southern Utes into southwestern Colorado.

The bands within the Ute Nation divided and today the homelands for the Weeminuche, or Ute Mountain Ute Tribe, total about 597,000 acres in southwestern Colorado, southeastern Utah, and northern New Mexico. The White Mesa community of the Tribe lives in Utah, where most of the housing is on tribal lands. The majority of lands there are allotted to tribal members and are laid out in a checkerboard design.







The tribal lands are on what's known as the Colorado Plateau, a high desert area with deep canyons carved through the mesas. This is a harsh land and there are no cities to provide services for the tribe. So the tribe must be self-sufficient by looking for other means of implementing progress and creating successful enterprises to serve the needs of the tribal members as well as create a healthy economy in which to live. The natural resources of the land provide the tribe

income. These resources include oil and gas, grazing land for herds of tribal members, and land and water for the new Farm & Ranch project south of the Sleeping Ute Mountain.



Chief Ouray in Washington,D.C. (courtesy, Ute Mtn Ute Tribe)

After over 100 years of no water, the Colorado
Ute Water Settlement Act of 1988 brought an
end to years of legal battles for the tribe's water
rights. Under that agreement, the Ute
Mountain Ute Tribe brought the first piped
drinking water to the reservation and irrigation
water the Farm & Ranch project. This
project was mandated within the Dolores

Project (McPhee Dam).

Today the tribe employs over 900 people in its enterprises and departmental programs. These employees include tribal members, other Native Americans, and Anglos, thus making the tribe the second largest employer in the Four Corners area. The per capita enrollment for the Ute Mountain Ute Tribe is 1,968, as of January, 1999. The majority of the members live on the reservation in Towaoc with a smaller in the White Mesa community. The tribal census shows the largest part of the membership is in the twenties and younger age group.

Because the Ute tribe is so young, the members must be ready to take up the reins of leadership for the future of the tribe. As the tribal membership grows, the planning for the 21st century has to be done with care to enable the tribe to grow economically with the times, but retain and preserve the culture and ways of the Ute Mountain Ute Tribe. The achievements, goals, and objectives of the tribe for the future will be carried out by the strong wills of the future leaders.



### **History of Water Rights**



Colorado holds the unique distinction of being the first state to provide for the distribution water by public officials. In 1879, the legislature created a part of the present administrative system. It provided for the division of the state into ten water districts, nine of which are in the South Platte valley, and one in the Arkansas drainage. In each district, the statute provided for a Water Commissioner to divide the water according to priorities of the various ditches within the district, in accordance with the Prior Appropriation Doctrine of first-in-time, first-in-right.

The priority of each ditch was determined by the district courts based upon the date the ditches were constructed and the water placed to beneficial use. The statute as passed by the legislature in 1879 did not provide for stream measurement.

The Office of the State Engineer was created in 1881. The primary responsibility of the State Engineer was to measure the water in each stream from which water was diverted for irrigation, starting with those mostly used for irrigation. Three water divisions were created, made up of water districts located within the South Platte, the Arkansas, and the Rio Grande basins. Within six years, each of the remaining four water divisions as they exist today were created. In 1887, the state created a Superintendent of irrigation - who is known today as the



Division Engineer - to supervise Water Commissioners within each division.

By the beginning of the 1890's, many stream systems were over-appropriated. Ditch companies were actively constructing reservoirs to store winter flows and spring runoff. In addition, new sources of water were being pursued, which included transmountain diversions and pumping of ground water. Changes of water rights, exchanges, transfer of water rights and "loan statutes" were issues that had to be addressed by the office of the State Engineer by the turn of the century.



In 1899, the State Engineer was given the responsibility of approving all plans and specifications for dams designed over ten feet in height and covering more than twenty acres, or having a capacity of more than 1,721 acre-feet. In addition, the statures required that the construction had to be approved by the State Engineer. That same year the State Engineer was given authority to have water levels lowered in any reservoirs that were deemed unsafe.

Prior to 1957, no permit was required to construct a well. Ground water was not managed or allocated by the State, even though some of the earliest State Engineers expressed concerns about the impact alluvial wells might have on surface water rights. The Colorado Ground

Water Law of 1957 required a permit from the State Engineer as a prerequisite to drilling a new well and required the registration of existing wells. It exempted certain stock watering,



domestic, and artesian wells from these requirements.

The Colorado Ground Water Management Act of 1965 created the Ground Water Commission and the designated ground water basins. This act provided for the formation of management districts that were empowered to regulate the spacing of wells in designated ground water basins and set limits on production rates to minimize the lowering of water tables.

Also, statutes enacted as a result of this 1965 act directed the State Engineer to administer the laws of the state relative to the distribution of the surface waters to include underground waters tributary thereto, in accordance with the prior appropriation doctrine. Subsequent findings of the Colorado Supreme Court found that regulation of tributary wells - in order to protect senior surface water rights - was constitutional. In addition, the court directed the State Engineer to promulgate rules and regulations that would maximize the beneficial use of ground water while preventing injury to senior water rights.



In response to the Supreme Court's findings regarding tributary wells and surface water, the Water Rights Determination and Administration Act of 1969 was passed. Besides changing the name of the State Engineer's Office to the Division of Water Resources, the act required that surface and ground water rights be administered together. Ground water rights were required to be adjudicated in order to protect their priority. Plans for Augmentation were also allowed to mitigate material injury to senior vested water rights.

During the mid-1980's, new legislation was enacted concerning non-tributary and not non-tributary ground water and the permitting requirements that the Division of Water Resources must utilize in managing these resources. Gravel pit legislation was also enacted which required owners of any gravel pit constructed after December 31, 1980, to obtain well permits



and a court approved Plan for Augmentation plan of Substitute Supply to replace the evaporation losses that resulted from exposure of ground water. The State Engineer was given authority to promulgate rules and regulations regarding water quality for well construction, exchanges and substitute water supply plans. These rules and regulations were established in 1992.

The Division of Water Resources and the State Engineers are finding administration of water rights to be ever increasing in its complexity. Basin of origin issues, reserved rights, wetlands, endangered species recovery and interstate water issues are all new pressures on an already limited water supply. The State Engineer and the Division of Water Resources of the 21st century are committed to efficiently meeting these challenges of the future.

Source: http://water.state.co.us/SurfaceWater/SWRights/Pages/WRHistory.aspx



#### Water Availability for the Western United States--Key Scientific Challenges

#### By Mark T. Anderson and Lloyd H. Woosley, Jr.

In the Western United States, the availability of water has become a serious concern for many communities and rural areas. Near population centers, surface-water supplies are fully appropriated, and many communities are dependent upon ground water drawn from storage, which is an unsustainable strategy. Water of acceptable quality is increasingly hard to find because local sources are allocated to prior uses, depleted by overpumping, or diminished by drought stress. Some of the inherent characteristics of the West add complexity to the task of securing water supplies. The Western States, including the arid Southwest, have the most rapid population growth in the United States. The climate varies widely in the West, but it is best known for its low precipitation, aridity, and drought. There is evidence that the climate is warming, which will have consequences for Western water supplies, such as increased minimum streamflow and earlier snowmelt events in snow-dominated basins. The potential for departures from average climatic conditions threatens to disrupt society and local to regional economies. The appropriative rights doctrine governs the management of water in most Western States, although some aspects of the riparian doctrine are being incorporated. The "use it or lose it" provisions of Western water law discourage conservation and make the reallocation of water to instream environmental uses more difficult. The hydrologic sciences have defined the interconnectedness of ground water and surface water, yet these resources are still administered separately by most States. The definition of water availability has been expanded to include sustaining riparian ecosystems and individual endangered species, which are disproportionately represented in the Western States. Federal reserved rights, common in the West because of the large amount of Federal land, exist with quite senior priority dates whether or not water is currently being used. A major challenge for water users in the West is that these reserved rights may supersede other existing users. The minimum amount of water required, however, to sustain native peoples, a riparian system, or an endangered species eventually will need to be known in order to manage the available water supply. Periodic inventory and assessment of the amounts and trends of water available in surface water and ground water are needed to support water management. There is a widespread perception that the amount of available water is diminishing with



time. This and other perceptions about water availability should be replaced by objective data and analysis. Some data are presented here for the major Western rivers that show that flows are not decreasing in most streams and rivers in the West. Systematic information is lacking to make broad assessments of ground-water availability, but available data for specific aquifers indicate that these aquifers are being depleted, especially near population centers.

The complexity added to the issue of Western water availability by these and other factors gives rise to a significant role of science. Science has played a role in support of Western water development from the beginning, and the role has evolved and changed over time as society's values have changed. In this report, the role of science is discussed in three phases: (1) development and construction, (2) consequences and environmental awareness, and (3) sustainability. The development and construction phase includes some historical accounting of water development in the West and shows how some precedents set in those early days are still applied today. Science has played an important role in the second phase by objectively pointing out the consequences of this development and construction phase, such as the effects from converting rivers to reservoirs, the effects of ground-water pumping on surface water in streams, land-surface subsidence, and the changes in water quality brought about by the disposal of wastewater and manmade chemicals into the Nation's waterways and aquifers. The sustainability phase reflects the present efforts of water managers and other natural-resource managers to sustain water supplies beyond the present generation. Sustainability, as presently interpreted, goes beyond mere water availability for water supply, and includes ecosystems and even individual species. Sustainability by this definition is superficially appealing, but is and will continue to be a significant challenge for science to translate into measurable water-management strategies. A sustainable water supply for a community ideally would provide enough water to support a growing population and economy, even during protracted periods of drought a tall order. There are many scientific challenges surrounding a sustainable use of water resources, but five key challenges are discussed in this report: (1) the determination of a sustainable level of ground-water use that meets identified management needs, (2) artificial recharge in the long-term, (3) selected water-use strategies such as desalination and water reuse, (4) sustaining valued ecosystems, and (5) sustaining individual endangered species. These key challenges will demand scientific attention in the coming decades and are examined here in detail, including the following case examples: (1) the Middle Rio Grande Basin, New Mexico; (2) artificial



recharge in the Greater Los Angeles, California, area; (3) selected water-use strategies (no location); (4) San Pedro Riparian National Conservation area, Arizona; and (5) Upper Klamath Lake, Oregon. The case examples illustrate the technical and scientific complexity of the issues and explain the scientific approaches taken to address these issues, including the types and amounts of data collected. To support society's demand for sustainability, scientists, managers, policymakers and water users at large will need to develop, communicate, and use scientific information in more effective ways. New collaborative ways of conducting monitoring and research across disciplinary lines will be needed to develop quantitative habitat requirements for ecosystems and endangered species. The new role of science will be to support environmental decisionmaking to achieve some new level of sustainable use that will provide an assured supply of good-quality water for humans and for stream and riparian ecosystems.

Source: <a href="http://pubs.usgs.gov/circ/2005/circ1261/">http://pubs.usgs.gov/circ/2005/circ1261/</a>



#### **The Fresh Water Project**

Produce a photographic documentation of 30 important freshwater environments from across the globe.



Te Waikoropupu Springs, New Zealand







Pantanal, Brazil







Gacka, Croatia







Desert Waters, Wadi Wurayah and Wadi Shawka, United Arab Emirates







Sava Dolinka, Slovenia







Floridan aquifer, Florida, USA



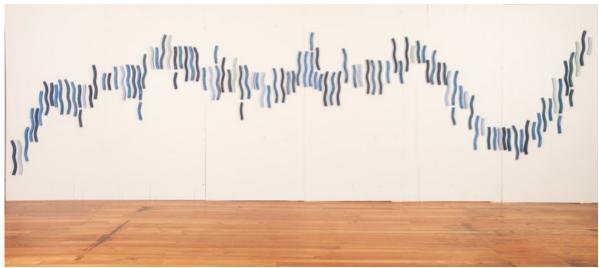


#### Jess Benjamin – ceramic artist

The Watercolor series focuses on water usage in the Great Plains area: a regional concern that is related to the phenomenon of global drought.



Reflecting on the Missouri River



Rise and Decline of Lake Mac





Rise and Decline of Lake Mead



The Rise of the Missouri River



#### Internet Resources

About the play:

2009 Colorado New Play Summit

http://www.youtube.com/watch?v=QU3tP0fFd14

The Ute Nation:

http://www.utetribe.com

http://www.mountainstudies.org/databank/history/Towns/UteMountainUtes.htm

About the water:

Colorado Department of Natural Resources

http://dnr.state.co.us/Pages/DNRDefault.aspx

The Freshwater Project

http://www.youtube.com/watch?v=BKew8vTYncw&fmt=18

http://www.roggo.ch/thefreshwaterproject/

Protecting our water - The Cycle of Insanity: The Real Story of Water

http://vimeo.com/10328536

http://www.ecoevaluator.com/environment/water-quality/protecting-our-waters.html

One Drop

http://www.onedrop.org/en/default.aspx

Water is Essential to Life

http://www.youtube.com/watch?v=83PCqmKEJrw&feature=player\_embedded



Access to Water is a Fundamental Human Right

http://www.youtube.com/watch?v=83PCqmKEJrw&feature=player\_embedded

Water and Food Security

http://www.youtube.com/watch?v=fGouYMkN9MA&feature=player\_embedded

Water and Women

http://www.youtube.com/watch?v=ja4ZnFGeyKw&feature=player\_embedded

Over-consumption

http://www.youtube.com/watch?v=if5ww5xgEUQ&feature=player\_embedded

Water and Pollution

http://www.youtube.com/watch?v=EuWh3Mc6XTg&feature=player\_embedded

Water and Solidarity

http://www.youtube.com/watch?v=ToGPcVfo75w&feature=player\_embedded

Water in Art

http://witcombe.sbc.edu/water/artwaterlifeyouth.html

■ Jess Benjamin – ceramic artist

http://www.jessbenjamin.com/Jess\_Benjamins\_Website/Home.html