Floyd County Emergency Response Call list

Name	Agency	Office Phone	Home Phone	Cell Phone	E-mail Address
David Tice	AMR	641-228-4772	641-228-5489	641-220-2140	dltice@fiai.net
Dawn Staudt	AMR	641-228-4772	641-228-3370	641-330-9869	dstaudt@amr-corp.net
Roy Schwickerath	Charles City Fire	641-257-6313	641-228-5788	641-330-6888	fdchief@cityofcharlescity.org
John Gohr	Charles City Police	641-228-3366	641-426-8124		dispatch@cityofcharlescity.or
Mike Wendel	Charles City Police	641-228-3366	641-228-7626	641-330-1430	chief@cityofcharlescity.org
Brad Gibson	Charles City Police	641-228-3366		641-330-9110	captain@cityofcharlescity.org
Jeff Sherman	Floyd County Board of Health	641-257-6145	641-228-1160	641-330-7440	Fcbh@floydcoia.org
Bridget Moe	Floyd County EMA	641-257-6144	641-590-1356	641-330-9900	floydema@floydcoia.org
Kathy Haus	Floyd County Medical Center	641-228-6830	641-228-4876	641-330-2099	khaus@fcmhosp.com
Joan Lore	Floyd County Medical Center	641-257-4345	641-435-4829	641-330-2247	jlore@fcmhosp.com
Gail Arjes	Floyd County Public Health	641-257-6111	319-278-4657	641-425-0613	garjes@floydcoia.org
Rick A Lynch	Floyd County Sheriff	641-228-1821	641-228-3097	641-330-2031	fcso@floydcoia.org

Division of Environmental Health Program Directory

Division Director: Ken Sharp, (515) 281-5099

Updated: March/2010

Environmental Health Services Bureau

Bureau Chief: Carmily Stone Phone: (515) 281-0921

Email: cstone@idph.state.ia.us

Tim Wickam (515) 281-7462 twickam@idph.state.ia.us

Algae Bloom

Peg Buman (712) 794-5390 pbuman@idph.state.ia.us

Backflow Prevention

Joyce Brown (515) 281-3548 jbrown@idph.state.ia.us

Mike Magnant (515) 281-8722 mmagnant@idph.state.ia.us

Bed Bugs

Bureau of Environmental Health Services (515) 281-7726

http://www.idph.state.ia.us/eh/common/pdf/b
oard of health assistance/factsheet bed b

ugs.pdf

Carbon Monoxide

Consumer Product Safety

Debbi Cooper (515) 242-6337 dcooper@idph.state.ia.us

Council of State and Territorial Epidemiologists' Fellow

Kaitlin Emrich (515) 281-3773 KEmrich@idph.state.ia.us

Emergency Response

Heather Lloyd (515) 281-8561 hlloyd@idph.state.ia.us

Environmental Epidemiologist

Tim Wickam

(515) 281-7462 twickam@idph.state.ia.us

Peg Buman (712) 794-5390 pbuman@idph.state.ia.us

Fluoridation

Mike Magnant (515) 281-8722 mmagnant@idph.state.ia.us

Food Safety

Tim Wickam (515) 281-7462 twickam@idph.state.ia.us

Healthy Homes Initiative

Mindy Uhle (515) 242-6131 muhle@idph.state.ia.us

Funeral /Crematorium

Carmily Stone (515) 281-0921 cstone@idph.state.ia.us

Housing Concerns

Mindy Uhle (515) 242-6131 muhle@idph.state.ia.us

<u>Hazardous Substances Emergency</u> <u>Events Surveillance System (HSEES)</u>

Debbi Cooper (515) 242-6337 dcooper@idph.state.ia.us

Local Board of Health issues

Carmily Stone (515) 281-0921 cstone@idph.state.ia.us

Grade "A" Milk

Kurt Rueber (515) 848-3299 krueber@idph.state.ia.us Migrant Labor Camps

Heather Lloyd (515) 281-8561 hlloyd@idph.state.ia.us

Scott Core (515) 281-4937 score@idph.state.ia.us

Mold

Bureau of Environmental Health Services (515) 281-7726 http://www.idph.state.ia.us/adper/comm on/pdf/mold_facts.pdf

Grants to Counties

Talisa Miller (515) 281-7726 tmiller@idph.state.ia.us

Nuisance Complaints

Mindy Uhle (515) 242-6131 muhle@idph.state.ia.us

Hazardous Waste Sites

Stu Schmitz (515) 281-8707 sschmitz@idph.state.ia.us

Plumbing Code

Mike Magnant

(515) 281-8722 mmagnant@idph.state.ia.us

Public Health Veterinarian

Dr. Ann Garvey (515) 281-4933

agarvey@idph.state.ia.us

Swimming Pools/Spas

Mike Magnant (515) 281-8722

mmagnant@idph.state.ia.us

Water Quality Carmily Stone

Water Treatment

mmagnant@idph.state.ia.us

Mike Magnant

(515) 281-8722

(515) 281-0921

cstone@idph.state.ia.us

Tattoo Program

Talisa Miller (515) 281-7726 tmiller@idph.state.ia.us

Lead Poisoning Prevention

Bureau Chief: Rita Gergely Phone: (800) 972-2026

Email: rgergely@idph.state.ia.us

(515) 242-5902

Kofficer@idph.state.ia.us

Adult Lead Surveillance

Rob Walker (515) 281-0908 rwalker@idph.state.ia.us

Blood Lead Reporting

Janet Lemmermann (515) 242-5200 Jlemmerm@idph.state.ia.us

Childhood Blood Lead Database

Pilar Logsdon (515) 242-5189 plogsdon@idph.state.ia.us

Childhood Lead Poisoning Prevention Program

Kevin Officer

Lead Professional Certification

Sylvia Gieseke (515) 281-3479 sgieseke@idph.state.ia.us

Lead Professional Training Providers

Pre-renovation Notification

Joelle Stolte (515)281-7464 jstolte@idph.state.ia.us

Mandatory Blood Testing Program

Rossany Brugger

515-281-3225 rbrugger@idph.state.ia.us

Rob Walker (515) 281-0908 rwalker@idph.state.ia.us

Occupational Health

Kathy Leinenkugel (515) 281-4930 kleinenk@idph.state.ia.us

Pesticide Surveillance

Plumbing and Mechanical Professional Licensing

Executive Officer: Cynthia Houlson

Phone: (515) 281-6881 or (866) 280-1521

Email: choulson@idph.state.ia.us

Radiological Health Bureau

Bureau Chief: Melanie Rasmusson

Phone: (515) 281-3478

Email: mrasmuss@idph.state.ia.us

(515) 281-0403 ATostleb@idph.state.ia.us

Mammography

Janet Kent (515) 281-0405 jkent@idph.state.ia.us

Permits to Practice (RT)

Charlene Craig (515) 281-0415 ccraig@idph.state.ia.us

Radioactive Materials

Amanda Tostlebe

Radon

Rick Welke (515) 281-4928

Radon Hotline: (800) 383-5992

rwelke@idph.state.ia.us

(515) 281-0403 ATostleb@idph.state.ia.us

Tanning

Charlene Craig (515) 281-0415 ccraig@idph.state.ia.us

X-Ray Machines

Amanda Tostlebe

Toxicology Services

Toxicologist: Stu Schmitz Phone: (515) 281-8707

Email: sschmitz@idph.state.ia.us

- Exposure to Chemicals and Toxicants
- Exposure to Hazardous and Contaminated Sites
- Fish Consumption Advisories



Participating County Contact List - Environmental Health Professionals/Sanitarians - working with the lowa Department of Natural Resources 3/9/2010

_	\$10000			3/9/2010					
COUNTY	Co	CONTACT NAME	PHONE #	Address	City/State/Zip	SEPTICS	² OSWAP	³ WELLS	4GTC
Adair		Steve Patterson	·1·	200 N. Fifth Street	Guthrie Center, IA 50115	Х	Х	Х	Х
Adams	2	Carl Goodson	641/322-3410		Corning, IA 50841	Х	X	Х	X
Allamakee		Laurie Moody		110 Allamakee St.	Waukon, IA 52172	Х	X	Х	X
Appanoose	4	Bill Milani	*	12307 Hwy 5, PO Box 389	Moravia, IA 52571	Х	X	Х	X
Audubon		Steve Patterson	4	200 N. Fifth Street	Guthrie Center, IA 50115	X	X	Х	X
Benton	6	Marc Greenlee	7	P.O. Box 327	Vinton, IA 52349	X	<u>.</u>	x	X
Black Hawk		Jon McNamee		1407 Independence Ave.	Waterloo, IA 50703	X	X X	X	X
		•	•	•	Boone, IA 50036	x	×	X	X
Boone	8	Mike Salati	A. Control of the Con	201 State Street	Waverly, IA 50677	X	X	X	×
Bremer	4	Doug Bird	•	415 East Bremer	•	x		x	x
Buchanan		Ed Fitzgerald	and the second s	210 5th Ave. NE, PO Box 2	Independence, IA 50644	1	· · · · · · · · · · · · · · · · · · ·	x	· · · · · · · · · · · · · · · · · · ·
Buena Vista		Kim Johnson	712/749-2555		Storm Lake, IA 50588	X X	······································	x	x
Butler	1	Mike Weinberg	4	Courthouse, P.O. Box 305	Allison, IA 50602	4		x	î
Calhoun		Shelly Schossow	712/267/8323		Rockwell City, IA 50579	X	X .	a	
Carroll	14	Carey Kersey		P.O. Box 702	Carroll, IA 51401	X	X	X	<mark>X</mark>
Cass		Steve Patterson		:200 N. Fifth Street	Guthrie Center, IA 50115	X	X	X	Х.
Cedar	16	Phil LaRue	563/886-2248	Courthouse	Tipton, IA 52772	X	ΧΧ	X	X
Cerro Gordo	17	Brian Hanft	641/421-9340	22 N. Georgia Ave. Mohawk Sq., 3rd Floor	Mason City, IA 50401	X	X	X	X
Cherokee	18	Aimee Barritt	712/225-6721	Courthouse, Box D	Cherokee, IA 51012	X	X	X	X
Chickasaw	19	Ken Rasing	641/394-2406	P.O. Box 214	New Hampton, IA 50659	Х	X	X	, X
Clarke	20	Allan Mathias	641/342-6654	100 S. Main	Osceola, IA 50213	X	X	X	X
Clay	21	Tammy McKeever	712/262-8165	300 West 4th St., Suite 6	Spencer, IA 51301-3889	X	Х	X	Х
Clayton	22	Janet Ott	563/245-2451	P.O. Box # 456	Elkader, IA 52043	. X	Х	X	X
Clinton		Bob Summers		329 East 11th Street	DeWitt, IA 52742	X	X	X	X
Crawford		Carey Kersey		P.O. Box 702	Carroll, IA 51401	Х	Х	X	X
Dallas		Kathy Witkovski	515/993-5803		Adel, IA 50003	X	X		X
Davis	26	Donnie Herteen		12307 Hwy 5, PO Box 389	Moravia, IA 52571	X	X	X	Χ
Decatur		Allan Mathias	641/446-7131		Leon, IA 50144	X	Х		Х
Delaware		Dennis Lyons	563/927-5925	•	Manchester, IA 52057	X	X	X	Х
Des Moines		Patrick Waters	*	522 N. Third Street	Burlington, IA 52601	X	🏔	X	X
			,		Spirit Lake, IA 51360	. X	х	X	x
Dickinson		David Kohlhaase		1810 Ithaca Ave.	, ,	x	x	X	X
Dubuque		Dr. Paul Buss	•	:13063 Seippel Road	Dubuque, IA 52002	`^ .	×	· ^	
Emmet	32	Terry Reekers		508 South 1st Street	Estherville, IA 51334		·	÷	X
		Joe Neary		P.O. Box 271	Emmetsburg, IA 50536			X	x
Fayette	•	Catherine Miller	•	P.O. Box 269, 114 N. Vine	West Union, IA 52175	X	X	x	· x
Floyd	34	and the second s	i .	101 S. Main, Courthouse	Charles City, IA 50516	<mark>X</mark> .	X		
Franklin	•	Earl Kalkwarf	•	115 1st Street SE	Clarion, IA 50525	X	X	X	, X
Fremont	36	Mike Crecelius	712/3743355	2014 210th Avenue	Sidney, IA 51652	X	X	X	X
Greene	37	Tim Healy	•	114 N. Chestnut	Jefferson, IA 50129	X	X	Х	X
Grundy	38	Carie Sager	319/824-1212	704 H Avenue, Suite 5	Grundy Center, IA 50638	X	X	X	Х
Guthrie	39	Steve Patterson	641/747-8320	200 N. Fifth St., Courthouse	Guthrie Center, IA 50115	X	X	X	X
Hamilton	40	Al Haberman	515/832-9510	821 Seneca Street	Webster City, IA 50595	X	Х	X	X
Hancock	41	Steve Anderson	515/923-2702	:109 W State St.	Aigona, IA 50511	X	Х	X	X
Hardin	42	Lori Kadner	641/858-5058	P.O. Box 534	Eldora, IA 50627	X	Х	Х	Х
Harrison	43	Matt Pitt	712/644-2302	116 North Second Avenue	Logan, IA 51546	X	X	. х	χ
Henry	44	Jodi Sutter	319/385-6724	Co.Health Ctr, 407 S. White	Mt. Pleasant, IA 52641	X	Х	X	X
Howard	45	LaCinda Altman		Courthouse, 137 N. Elm	Cresco, IA 52136	X	Х	X	X
Humboldt		Don McLain		2221 220th St.	Humboldt, IA 50548	X	Х	Χ	X
lda		Cheryl Andresen		401 Moorehead, Courthouse	Ida Grove, IA 51445	Х	Х	Χ	Х
lowa	48	Richard Heller	*	P.O. Box 371	Marengo, IA 52301	Х	Х	X	Х
Jackson		Frank Frieberg	563/652-5658		Maguoketa, IA 52060	X	Х	X	X
Jasper	50	Sue Irving	*	115 N 2nd Ave. E	Newton, IA 50208	X	X	X	Х
Jefferson		Dan Miller		2200 West Jefferson	Fairfield, IA 52556	x	X	X	X
	,	James Lacina		1105 Gilbert Court	Iowa City, IA 52240	x	X	x	X
Johnson					Anamosa, IA 52205	x	X	x	X
Jones		Paula Hart		500 West Main	•	x	x	x	x
Keokuk	4	Travis Sines		101 S. Main St., Courthouse	Sigourney, IA 52591		X	x	x
Kossuth		Jack Bradley		.109 W State St.	Algona, IA 50511	X	A contract of	x	x
Lee		Diane Septer		2218 Ave. H, Suite A	Fort Madison, IA 52627	, X	X	the state of the s	5
Linn		Heidi Peck		501 13th St. NW	Cedar Rapids, IA 52404	X	X	X	X
Louisa		Andrew Beaver	319/523-5271		Wapello, IA 52653	X	X	X	X
Lucas		Bill Milani		12307 Hwy 5, PO Box 389	Moravia, IA 52571	X	Х	X	X
Lyon	60	Jeff Williams, P.E.		206 S. Second Avenue	Rock Rapids, IA 51246	X		X	X
Madison	61	Elton Root	515/462-2636	Courthouse, Box 152	Winterset, IA 50273	X	X	X	X
		Eric Dursky	641-660-3419	2074 Hwy, 163	Oskaloosa, IA 52577	Х	X	X	X
Mahaska	62	Enc Dalony	011 000 0110						
Mahaska Marion		Cory Frank		214 E. Main St.	Knoxville, IA 50138	X	Х	Х	X

Mitchell 66 Mark Ross	Milis	65	Mike Sukup	712/527-9699	Box 209	Glenwood, IA 51534	Х	Х	X	Х
Nonnome F7 Sandy Bubble 712/423-3400 610 lowa Ave. Onawa, IA 51040 X	Mitchell	66	Mark Ross	641/732-5468	509 State St.	•	A CONTRACT OF THE SECOND			
Mornow 68	Monona	67	Sandy Bubke	712/423-3400	610 lowa Ave.					
Mortgomery 99 Richard Price 712/623-6643 1109 Highland Red Oak, IA, 51566 X X X X X X X X X	Monroe		•	*						
Muscatine 70 Jeremy Underwood 563/263-0482 3610 Paik Ave, West Muscatine, IA 52761 X X X X X X X X X	Montgomery	69	Richard Price							
Visition 71 Almee Devereaux 712/757-0105 155 S. Hayes, Courthouse Primghar, IA 51245 X	Muscatine	70	Jeremy Underwood							
Secola 72 Dennis Davids 712/754-3996 300 7th St., Courthouse Sibley. IA 51249 X X X Stage 73 Donny McCoy 712/542-2510 Courthouse, 112 E. Main Clainda, IA 51832 X X X X X X X X X	O'Brien	71	*							
Age 73 Donny McCoy 712/542-2510 Courthouse, 112 E, Main Clarinda, IA 51632 X	Osceola	72	Dennis Davids		* *		Tarana and the same of the sam	and the second second		
Allo Allo 74 Joe Neary 712/852-3058 P.O. Box 271 Emmetsburg, IA 50536 X X X X Ilymouth 75 Noel Ahmann 712/854-7516 Courthouse, 215 4th Ave. SE LeWars, IA 51031 X X X X X X X X X	Page	73	Donny McCoy			,				
	Palo Alto				•		and the second second			1
Cocahontas 76 Don McLain 712/335-4142 99 Court Square Pocahontas, IA 50574 X	Plymouth	75	Noel Ahmann				the second of the second			
Colk 77	Pocahontas	76	Don McLain			· ·	a contract to the first			
ottawattamie 78 Kay Mocha 712/328-5792 223 S. Sixth Street Council Bluffs, IA 51501 X	Polk	177	Jim McCasland		•	•				
Covershiek 79 Carroll Smith 641/623-3762 P.O.Box 418 Montezuma, IA 50171 X X X X X X X X X	Pottawattamie		•						5	
Septics Singgold Singgold Allan Mathias 641/342-6654 100 S. Main Osceola, IA 50213 X	Poweshiek	79	Carroll Smith	641/623-3762	P.O.Box 418					
Sherrie Wilson 712/662-7929 116 S. State St Suite A Sac City, IA 50583-2340 X X X X X X X X X	Ringgold		1			· ·	an action for according			
cott 82 Larry Linnenbrink 563/326-8618 428 Western Ave. Davenport, IA 52801 X X X X Analysis A	Sac	81	Sherrie Wilson					and the second second		X
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September Sept	Shelby	83	Joe Stroeher	712/755-2609	1313 Industrial Parkway	A CONTRACTOR OF THE CONTRACTOR				
tory 85 Margaret Jaynes 515/382-7242 Health Dept., Courthouse Nevada, IA 50201 X X X X X Ama 86 Bill Christensen 641/484-4788 Health Dept., 129 W High St. Toledo, IA 52342 X X X X X Aylor 87 Angela Green 712/523-2556 505 State St. Bedford, IA 50833 X X X X X X X X X Aminon 88 Louis Boeckman 641/782-7803 1701 Commerce Road Creston, IA 50801 X X X X X X X Annion 89 Jim Laughlin 319/293-2531 Box 475, Courthouse Keosaqua, IA 52565 X X X X X X X X X X X X X X X X X X	Sioux	84	Ken Oldenkamp	•	,	· ·	Annual Control of the			
ama 86 Bill Christensen 641/484-4788 Health Dept., 129 W High St. Toledo, IA 52342 X X X X X Aylor 87 Angela Green 712/523-2556 505 State St. Bedford, IA 50833 X X X X X X An Bedford, IA 50833 X X X X X X X An Bedford, IA 50801 X X X X X X An Bedford, IA 50801 X X X X X X X An Bedford, IA 50801 X X X X X X X An Bedford, IA 50801 X X X X X X X X An Bedford, IA 50801 X X X X X X X X X X X X X X X X X X X	Story	85	Margaret Jaynes	515/382-7242	Health Dept., Courthouse	, •	fore a constant and a constant	A RESERVED A REPORT OF A SECOND SECOND		
Angela Green 712/523-2556 505 State St. Bedford, IA 50833 X X X X X X X X X	Tama					the state of the s				
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an Buren 89 Jim Laughlin 319/293-2531 Box 475, Courthouse Keosaqua, IA 52565 X X X X X X Appello 90 Ross Glosser 641/683-0651 105 E. 3rd St. Ottumwa., IA 52501 X X X X X X X X Appello 90 Ross Glosser 641/683-0651 105 E. 3rd St. Ottumwa., IA 52501 X X X X X X X X X X X X X X X X X X X	Union	88	Louis Boeckman	641/782-7803	1701 Commerce Road	· ·				
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Varren 91 Curt Coghlan 515/961-1062 P.O. Box 456 Indianola, IA 50125 X	Wapello	90	Ross Glosser	641/683-0651	105 E. 3rd St.	Ottumwa., IA 52501		. x		
/ashington 92 Jeff Thomann 319/653-7782 314 McCreedy Dr. Washington, IA 52353 X X X X /ayne 93 Bill Yeager 641/872-1903 P.O. Box 435 Corydon, IA 50060 X	Warren	91	Curt Coghlan	515/961-1062	·P.O. Box 456	· ·				
Value 93 Bill Yeager 641/872-1903 P.O. Box 435 Corydon, IA 50060 X X X X Vebster 94 Kari Prescott 515/573-4107 330 1st Ave. N Fort Dodge, IA 50501 X X X Vinnebago 95 Ron Kvale 515/582-3412 216 South Clark Street Forest City, IA 50436 X X X Vinneshiek 96 Doug Groux 563/387-4120 201 West Main Decorah, IA 52101 X X X X Voodbury 97 Ron Brandt 712/279-6119 1014 Nebraska St. Sioux City, IA 51105 X X X X Vorth 98 Shane Buenzow 641/845-2200 4125 Pheasant Avenue Kensett, IA 50448 X X X Viright 99 Yale Schutt 515/532-3461 115 1st Street SE Clarion, IA 50525 X X X Septics = Contact for septic system permitting DSWAP = County participates in the onsite loan program Vells = Contact for private well permitting Contact	Washington	92	Jeff Thomann	319/653-7782	314 McCreedy Dr.	Washington, IA 52353	X	X	χ	
/Innebago 95 Ron Kvale 515/582-3412 216 South Clark Street Forest City, IA 50436 X X X X X X X X Inneshiek 96 Doug Groux 563/387-4120 201 West Main Decorah, IA 52101 X X X X X X X X X X X X X X X X X X	Wayne	93	Bill Yeager	641/872-1903	P.O. Box 435	Corydon, IA 50060				
/Innebago 95 Ron Kvale 515/582-3412 216 South Clark Street Forest City, IA 50436 X X X X X X X X Inneshiek 96 Doug Groux 563/387-4120 201 West Main Decorah, IA 52101 X X X X X X X X X X X X X X X X X X	Webster	94	Kari Prescott	515/573-4107	330 1st Ave. N					
/Inneshiek 96 Doug Groux 563/387-4120 201 West Main Decorah, IA 52101 X X X X X X / Ocodbury 97 Ron Brandt 712/279-6119 1014 Nebraska St. Sioux City, IA 51105 X X X X X X X / Orth 98 Shane Buenzow 641/845-2200 4125 Pheasant Avenue Kensett, IA 50448 X X X X X X X X X X X X X X X X X X	Winnebago	95	Ron Kvale	515/582-3412	216 South Clark Street	Forest City, IA 50436	Х	X		
Voodbury 97 Ron Brandt 712/279-6119 1014 Nebraska St. Sioux City, IA 51105 X </td <td>Winneshiek</td> <td>96</td> <td>Doug Groux</td> <td>563/387-4120</td> <td>201 West Main</td> <td>* * * * * * * * * * * * * * * * * * * *</td> <td>: :.</td> <td></td> <td></td> <td>1</td>	Winneshiek	96	Doug Groux	563/387-4120	201 West Main	* * * * * * * * * * * * * * * * * * * *	: :.			1
/orth 98 Shane Buenzow 641/845-2200 4125 Pheasant Avenue Kensett, IA 50448 X X X X X X X X X X X X X X X X X X	Woodbury	97	Ron Brandt	712/279-6119	1014 Nebraska St.	·			la compressor of contract,	for a server of the server
right 99 Yale Schutt 515/532-3461 115 1st Street SE Clarion, IA 50525 X X X X X Septics = Contact for septic system permitting DSWAP = County participates in the onsite loan program Vells = Contact for private well permitting	Worth	98	Shane Buenzow	641/845-2200	4125 Pheasant Avenue		Х			
DSWAP = County participates in the onsite loan program: Vells = Contact for private well permitting	Wright	99	Yale Schutt	515/532-3461	115 1st Street SE	Clarion, IA 50525	Х			
Vells = Contact for private well permitting					:					
	² OSWAP = Co	unty	participates in the ons	ite loan program						
FTC = County participates in the Grants to Counties Program	³ Wells = Conta	ct fo	r private well permitting	3						
	⁴ GTC = County	parl	icipates in the Grants	to Counties Prog	ram					1

CHURCHES

All churches offer assistance and/or counseling. See the yellow pages of the telephone directory for the denomination of your choice.

HEALTH CARE

Tour Day Odings	0 1 1 200
Ambulance	911
American Cancer Society	800-227-2345
American Diabetes Association	800-678-4232
Cancer Information	319-356-4262
Easter Seal Society	515-289-1933
Floyd County Hospital	641-228-6830
Immunization Clinic	641-257-6848
Home Health Care	641-257-6363
Kidney Foundation	319-369-4474
Poison Control Center	800-222-1222
Public/Comm. Health Nursing	641-257-6848
Veterans General Assistance	641-228-1850
WIC Family Planning Service	641-228-2893
Homecare Medical Supply	800-662-5565

FINANCIAL ASSISTANCE

Veterans Benefits/Assistance	Veterans Administration	Unemployment Compensation	Social Security Administration	Floyd County Human Services	Floyd County Relief Office
641-228-1850	800-827-1000	641-228-5136	800-772-1213	641-228-5713	641-257-6153

FINANCIAL COUNSELING

lowa State University Extension 641-228-1453 Small Business Counseling 800-827-5722

DISASTER QUICK REFERENCE

FEMA Disaster Application Hotline: 1-800-462-9029; TDD, 1-800-462-7585

Agricultural Conservation Service: General Dept. of Agriculture 515-281-5321 Soil Conservation 515-281-6146

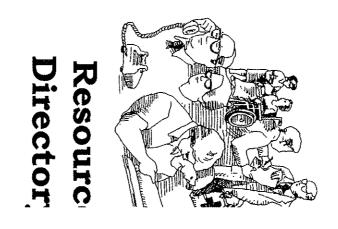
POLITICAL CONTACTS

lowa Senate Switchboard	lowa House Switchboard	lowa Senator Amanda Ragan	lowa Representative Mark Kuhn	U.S. Congressman James Nussle	U.S. Senator Tom Harkin	U.S. Senator Charles Grassley
515-281-3371	515-281-3221	641-424-0874	641-228-2566	641-235-1109	319-365-4504	319-232-6657

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Extension programs are available to all without regard to race, color, national origin, religion, sex, or disability.

Floyd County



Floyd County Extensic 615 Beck Stre Charles City, IA 506: Phone/fax: 641-228-14!

www.extension.iastate.edu/flo

COUNSELING & EMOTIONAL SUPPORT

Alconol/Drug Abuse Hotline	SUU-ALCOHOL
Alliance for Mentally III	515-254-0417
Bremwood Children's Home	641-228-8030
Crisis Intervention Service	800-479-9071
Floyd County Human Services	641-228-5713
Hope House	641-228-7453
Lutheran Social Services	641-423-6313
North Iowa Mental Health Center	641-424-2075
Nutrition Counseling	800-433-3883
Prairie Ridge	641-228-1477
lowa Concern Hotline	800-447-1985
Healthy Family Hotline	800-369-2229
Teen Hotline	800-443-8336

FOOD

641-228-2893	NIC
641-228-3114	Senior Citizen's Meal Site
641-228-7022	Community Services Food Box

WEATHERIZATION **UTILITY ASSISTANCE &**

lowa Community Action	County Relief Office
641-228-2893	641-228-6153

Floyd North

EMPLOYMENT AND JOB TRAINING

Vocational Rehabilitation	IA. Workforce Development	
641-422-1551	641-228-5136	

THRIFT CLOTHING

Treasure Chest	Salvation Army
641-228-5055	641-424-4031

SMALL BUSINESS DEVELOPMENT

IDED Small Business Helpline	ISU Extension/Floyd County
800-532-1216	641-228-1453

ABUSE/NEGLECT

Sexual Assault Center Shelter for Abused Women	Services for Abused Women	Parent Helpline	Floyd County Sheriff	Floyd County Human Services	Domestic Abuse Hotline	Crisis Intervention Services	Child Abuse/Neglect Report	
800-433-3883 800-383-2988	800-383-2988	1010-275-00	911	641-228-5713	800-942-0333	800-479-9071	800-362-2178	

EDUCATION

800-772-2085	Vartburg College
641-756-3610	Rudd-Rockford-Marble Rock
641-228-4634	lorth Iowa Community College
641-749-5301	lora Springs-Rock Falls
641-435-4835	Vashua-Plainfield
641-228-1453	SU Extension/Floyd County
888-466-4222	3ED Program
641-257-6500	Charles City Comm. Schools
800-798-8764	Buena Vista College

FARM CONCERNS

lowa Rural Development	Consumer Law	Rural Concern Hotline	Mediation Services	Legal Services of Iowa	JTPA Farmworks Program	ISU Farm On Program	Attorney General-Farm
515-242-4875	319-335-9023	800-447-1985	515-331-8081	800-332-0419	800-392-5685	800-447-1985	515-281-5351

ISU PHONE NUMBERS

IA. Horticulture Society	Teen Line	Porkline	Iowa Concern	Horticulture Line	Healthy Families	ISU Continuing Ed.	ISU Soil & Plant Test Lab	Continuing Education	Bets Off	Answer Line (Home & Family)
515-294-0028	800-443-8336	800-808-7675	800-447-1985	515-294-3108	800-369-2229	800-262-0015	515-294-3076	800-262-0015	800-238-7633	800-262-3804

ISU WEB SITE

www.extension.iastate.edu

IOWA STATE UNIVERSITY

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shock-chlorinating small water systems

Sanitary water system components (well, pump, pipes, tanks and treatment equipment) are as essential to a hygienic drinking water supply as clean cooking and serving utensils are to wholesome food.

A properly designed well and water distribution system incorporates sanitary features that keep contamination from entering under normal operating conditions, but there are occasions when contaminants will get in, During well construction, or when pumps and other water system components are being installed, soil, grease, joint sealing compound, and other foreign materials that carry bacteria adhere to interior surfaces of the equipment. Furthermore, most water system repairs must usually be accomplished in trenches, well pits, or other locations where opportunities for contamination are numerous.

To combat disease-causing bacteria and viruses that remain in a water system following construction, repair, or maintenance, some means of disinfecting the interior surfaces is necessary. Shock chlorination is a convenient method for doing this through the use of a concentrated chlorine solution.

Shock chlorination is occasionally confused with the type of chlorination provided in public water systems, but the two processes differ substantially. Public water supply disinfection is accomplished with

a continuous application of small amounts of chlorine. The major purpose is to disinfect the water itself, and water from community water supplies commonly contains less than 1 part per million (ppm) of chlorine. Shock chlorination, however, uses chlorine concentrations ranging from 50 to 200 ppm, and the primary purpose is to sanitize wells, piping, and other equipment that the water passes through.

Shock chlorination is *not* a continuous process and it cannot protect a defective well or plumbing system from continuous entry of contaminants. Only water systems that are protected against

further contamination will benefit from shock chlorination. Poorly designed or deteriorated water system components that allow contamination to enter should be repaired or replaced, then shock chlorinated. For further information on the sanitary construction features that should be incorporated in a well, see Good Wells for Safe Water, ISU Extension publication PM 840.

Control of nuisance organisms that can live in a water system is another use for shock chlorination. Iron bacteria, for example, are commonly found in water supply equipment. This type of bacteria is not known to cause disease,

Table 1. Pounds of HTH* needed to shock chlorinate wells of various depths and diameters.

Well water			Mall	diamantav	(implement			•
depth (feet)	4	6	8	diameter 12	(mones)	24	30	36
25	0.04	0.09	0.16	······································				
25 50	0.04	0.09	0.16 0.31	0.35 0.7	0.8 1.6	1.4 2.8	2.2	3.2
75	0.00	0.16	0.47	1.1	2.4	4.2	4.4 6.6	6.4 9.5
100	0.12	0.25	0.47	1.4	3.2	5.6		
							8.8	12.7
125	0.20	0.44	0.8	1.8	4.0	7.1	11.0	15.9
150	0.24	0.5	0.9	2.1	4.8	8.5	13.2	19.1
175	0.27	0.6	1.1	2.5	5.6	9.9	15.4	22.2
200	0.31	0.7	1.3	2.8	6.4	11.3	17.6	25.4
250	0.39	0.9	1.6	3.5	7.9	14.1	22.1	31.8
300	0.47	1.1	1.9	4.2	9.5	16.9	26.5	38.1
350	0.5	1.2	2,2	4.9	11.1	19.8	30.9	44.5
400	0.6	1.4	2.5	5.6	12.7	22.6	35.3	50.8
450	0.7	1.6	2.8	6.4	14.3	25.4	39.7	57.2
500	8.0	1.8	3.1	7.1	15.9	28.2	44.1	63.5

^{*}For products containing 65 to 75 percent Ca(OCI),

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but it thrives in some iron-bearing waters and forms large amounts of rust-colored slime that clogs wells, pipelines, and water filters. Though extremely difficult to eliminate from a water system, iron bacteria growth can be controlled with periodic shock chlorination.

How to Shock Chlorinate

Sources and Amounts of Chlorine

Liquid and powdered forms of chlorine are readily available at grocery or hardware stores and swimming pool supply outlets. Liquid household bleach, which commonly contains 5.25 percent sodium hypochlorite (NaOCI), is a convenient product to use if your well is not extremely large or deep. High-test hypochlorite powder, commonly referred to as HTH, is a highly concentrated source of chlorine suitable for large or deep wells. It generally contains 65 to 75 percent calcium hypochlorite (Ca(OCI)₂).

Tables 1 and 2 indicate approximately how much HTH or bleach is needed to yield a chlorine concentration of 200 parts per million (ppm) in wells of various depth and diameter. Water containing substantial amounts of iron, hydrogen sulfide, or organic material will require more chemical because chlorine is depleted by these substances.

Example 1: A weighted string lowered into a 6-inch diameter well indicates water in the well is about 100 feet deep. Approximately **how much HTH** would be used to shock chlorinate this well?

From Table 1—enter the column for a 6-inch well and read down to the row for 100 foot depth. Approximately 0.35 pounds of HTH is needed.

Example 2: How much household bleach, containing 5.25 percent NaOCI, would be needed to shock chlorinate the well in Example 1? From Table 2—again, read down the column for a 6-inch well until the row for 100 feet of water depth is reached. In this case 4.7 pints of bleach is recommended.

It is not necessary that chlorine levels in the well be exactly 200 ppm; 100 to 200 ppm is adequate. A strong chlorine odor, however, should be present in water pumped from the well to other parts of the plumbing system. If a

strong odor is not noticeable, you will need to add more chlorine.

Disinfecting the Water SystemOnly the surfaces that are contacted by the chlorine solution

will be disinfected. The following recommendations will help to accomplish a thorough job.

To avoid adding more contaminants to the well during the disinfection procedure, clean up the work area around the top of the well. Remove grease, mineral deposits, and other encrustation from accessible parts of the well interior and scrub these surfaces with a solution of 1/2 cup of laundry bleach in 5 gallons of water. Be sure to wash pumping equipment and piping with the chlorine solution as it is lowered into the well

Table 2. Pints of bleach* needed to shock chlorinate wells of various depths and diameters.

Well water depth			VA.	ell diame	tor (inc	hae)			
(feet)	4	6	8	12	18	24	30	36	48
25	0.5	1.2	2.1	4.7	10.6	18.8	29.3	42.2	75.1
50	1.0	2.3	4.2	9.4	21.1	37.5	58.7		
75	1.6	3.5	6.3	14.1	31.7	56.3			
100	2.1	4.7	8.3	18.8	42.2	75.1			
125	2.6	5.9	10.4	23.5	52.8				
150	3.1	7.0	12.5	28.2	63.4				
175	3.7	8.2	14.6	32.9	73.9				
200	4.2	9.4	16.7	37.5					
250	5.2	11.7	20.9	46.9					
300	6.3	14.1	25.0	56.3					
350	7.3	16.4	29.2	65.7					
400	8.3	18.8	33.4	75.1					
450	9.4	21.1	37.5						
500	10.4	23.5	41.7						

^{*}For bleach containing 5.25 percent NaOCI.

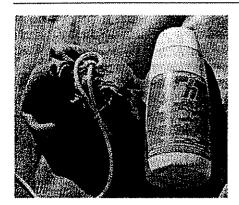


Fig. 1. Cloth sack filled with powdered chlorine is ready to be lowered into the well.

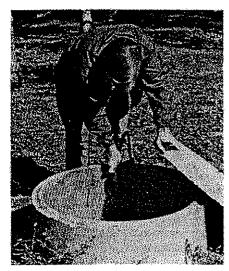


Fig. 2. Weighted sack filled with chlorine powder is lowered into the well.



Fig. 3. Strong chlorine solution is recirculated back to the well.

Newly constructed wells, or those that have been submerged by flood waters, may contain substantial amounts of sediment that cloud the water and interfere with disinfection. Pump the well until the water clears before proceeding with shock chlorination.

Liquid sources of chlorine can be poured directly into the well. Powdered chlorine compounds can be introduced in two ways:

1. Mix the required amount of dry compound with a small amount of water and stir thoroughly to dissolve. Let the undissolved calcium carbonate particles settle. Pour off the clear chlorine solution and use this to disinfect the well.

OR

2. Place the required amount of chemical in a weighted cloth sack (fig. 1) or in a section of perforated pipe that has been capped on both ends. Attach a rope and alternately raise and lower the chemical throughout the water-bearing portion of the well to dissolve the compound and distribute the disinfectant (fig. 2).

Pumping will help to mix the disinfectant with the water standing in the well. Use a garden hose to recirculate the strong chlorine solution directly back into the well (fig. 3). Direct the return flow onto the pump piping and interior portions of the well casing that are above the water level.

Open the faucets and hydrants on each water line, one by one, and allow water to flow until a strong chlorine odor is detected. If a strong chlorine odor is not detectable, add more chlorine at the well. This will be necessary if the water contains substantial amounts of iron, hydrogen sulfide, or organic materials that. deplete the chlorine in solution.

Drain water heaters and bleed the air from pressure tanks so that chlorinated water can completely fill and sanitize them. Water softeners, sand filters, and iron removal filters should be backwashed with the strongly chlorinated water. *Do not* chlorinate carbon or charcoal filters because this will deplete their capacity.

It takes time for the chlorine to do a thorough job of disinfecting. Allow the chlorine to remain in the water system for at least 2 hours—longer, if possible.

Before using the water supply, thoroughly flush the remaining chlorine from the system. Minimize the amount of chlorinated water that enters a septic tank by flushing the well, pressure tank, and other large volumes of disinfecting solution through outside hydrants. Vegetation may be harmed by the strongly chlorinated water; dispose of it on ground where damage will be minimal. Pipes that serve indoor plumbing fixtures can be flushed after the well and pressure tank have been filled with fresh water.

Observe These Precautions

All concentrated chlorine solutions are corrosive, and care should be taken to avoid splashing them onto skin or into eyes. Rubber gloves, goggles, and protective aprons are recommended when handling chlorine solutions. Skin areas contacted by the disinfecting solution should be flushed immediately with clean water.

Never mix chlorine solutions with compounds containing acids or ammonia to improve their cleansing ability because toxic gases will form. Both liquid and powdered chlorine sources lose strength with time. Exposure to heat, light, and moisture (if the compound is powdered) accelerates decomposition of the materials. Accordingly, buy fresh chemicals in small quantities to avoid storage losses. Always read and follow the manufacturer's recommendations for handling and storing powdered and liquid chlorine compounds.

Strongly chlorinated water may damage the elastic air-water separator or air bladder used in some pressure tanks. Check the manufacturer's recommendations if your pressure tank is equipped with this feature.

Retest Before Drinking

Follow-up testing for bacteria is an essential part of the shock chlorination procedure. Wait a few days after shock chlorinating before collecting the water sample. If bacteria are still entering the water system, it may take several days for detectable amounts to show up in a water sample.

Do not drink the water until results from the water test indicate the supply is safe. It's a good idea to retest a few weeks later to be sure that all points of entry for contamination have been blocked. Bacterial contamination is most likely to enter a well during wet weather when the water table is high and excess surface water seeps into the ground. A well that shows little or no signs of bacterial contamination during dry weather may be heavily contaminated during wet seasons.

If a water system continues to show bacterial contamination following shock chlorination, it may be necessary to hire a plumber or well driller to help locate and repair places where contamination enters.

File: Engineering 5-5

Prepared by Tom Glanville, extension agricultural engineer.

... and justice for all

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Hygienic Laboratory

The University of Iowa 102 Oakdale Campus #H101 OH Iowa City, Iowa 52242-5002 (319) 335-4500

Drinking Water Safety Testing

Instructions for collection on back

External:

		Complete t	his sec	tion (Ple	ease pri	nt clear	ly)				
Report Resi	ults To:						***				
Name:			Coll	Collection Date/Time: / / / 24-hr. clock							
					MM DD YY 24-hr. clock Collection Address:						
					5 1)						
				_	ner Name: .			ast name)			
				ector Name):	(#FST and I	ast name)				
		CL SALILAL I	 San	anle Locatio	nn.	(first and l	ast name)	-			
Depth of well ft. Well Number (if known)					nple Locatio	/11.	(e.g. kitch	en faucet)			
***************************************			Check	Tests D	esired	***************************************					
If there a	Inder normal circu	umstances, total coliforn s or tests needed, call th	n bacteria (prese	ent/absent) and	nitrate testing wi	I indicate genera	al drinking	water quali	ty.		
	are other stration.	o or tests needed, can ti	le Laboratory at	1 1-000-421-409	2 or visit out web	site: www.uni.uk	owa.edu (d	quick link: w	vell water)		
Total (Coliform Bac	teria, <i>E. coli,</i> and	Nitrate					<u></u> \$	17		
OR To	otal Coliform	Bacteria and <i>E. c</i>	oli ONLY		\$12						
OR N	itrate ONLY				—						
The to	otal coliform l	pacteria and <i>E. c</i> o	oli tests (as	marked abo	ove) will be	reported as			3		
presei numbe	nt or absent : er (most-prol	in your sample. If pable number per	you want th 100 mL), c	he bacteria :heck this a	results repoi Iditional box	ted as a		<u> </u>	Ü		
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			For L	ab Use	Only						
Test	Method	Start of Analysis	Time	Result	Count	Date Read	Time	Reject	Analyst		
Total		YY-MM-DD		<u> </u>	(if Present)	YY-MM-DD		Code			
Coliform	9223B			☐ Present☐ Absent	-						
~~~~	1	<u> </u>		☐ Present							
E. coli	9223B			□ Absent							
Nitrate	4500-NO3F				mg/L						
Date R	ec'd					Internal:		·*·			
Sample	Number										



### Drinking Water Safety Testing for Private Water Supplies Sample Collection Instructions

- 1. Fill out the top half of the report form, especially **DATE AND TIME OF COLLECTION** or the sample will not be tested.
- 2. Use the sample bottle(s) supplied by the laboratory. At a minimum, write on the bottle label your name and collection date and time. One bottle is needed for total coliform & *E.coli* testing and one bottle for nitrate testing.
- 3. To assess overall drinking water quality, collect sample from drinking water tap, avoid leaking faucets and outside hydrants.
- 4. Remove aeration screens from faucet before collecting sample. If unable to remove, select another tap.
- 5. Open cold water tap to obtain smooth-flowing stream at moderate pressure without splashing. If water flow not steady, select another tap.
- 6. Allow water to run to waste at least 2-3 minutes (time sufficient to clear line). Note: For an outside collection site, special tap disinfection (flame or chlorine) and longer flushing (10-15 minutes) is usually required to obtain valid bacterial results.
- 7. Reduce water flow slightly (to pencil-width) to fill bottle without splashing.
- 8. Fill bottle to one inch of top and replace cap tightly. *Caution:* Inside sample bottle is sterile avoid placing fingers inside bottle or cap. Do not place cap down. Do not rinse out bottle(s).
- 9. Include check payable to the **Hygienic Laboratory** for the tests requested unless the form is stamped "PREPAID" signifying that the analytical fees have already been paid for. Do not send cash.
- 10. Mail or ship sample bottles immediately after collection (same day collected). Samples must be received within **48 hours** after collection avoid weekend or holiday mailings. First-class postage, UPS ground, or other carrier service may be necessary to insure rapid delivery from your area.

For further information contact:



Hygienic Laboratory
The University of Iowa

Iowa's Environmental & Public Health Laboratory

102 Oakdale Campus #H101 OH Iowa City, IA 52242-5002 (319) 335-4500 (800) 421-4692