

# **High Quality Water Resources**

A list for manure applicators and producers who need a construction permit

Passed by the 2002 General Assembly, Senate File 2293 set new requirements for the location and expansion of confinement feeding operations and for the land application of manure.

One of these changes added high quality water resources to the protected areas from certain manure application practices and as Items 10 and 35 on the master matrix, a system used to rate potential locations for confinement feeding operations needing a construction permit.

As defined by SF 2293, high quality water resources include high quality (HQ) waters and high quality resource (HQR) waters which are both listed in Iowa's Water Quality Standards in Chapter 61.3(5) "e" of the Iowa Administrative Code. Waters that were listed as HQ or HQR waters have above average characteristics and have not been channelized or significantly altered. High quality water resources also include protected water areas (PWA) listed below and on the DNR website under state parks, other division programs.

#### Definitions of the three water types

**High quality water (HQ):** Waters with exceptionally better quality than the levels specified in the Water Quality Standards and with exceptional recreational and ecological importance. Special protection is warranted to maintain the unusual, unique or outstanding physical, chemical, or biological characteristics which these waters possess.

**High quality resource water (HQR):** Waters of substantial recreational or ecological significance which possess unusual, outstanding or unique physical, chemical, or biological characteristics which enhance the beneficial uses and warrant special protection.

**Protected water areas (PWA):** This program started in 1978 to maintain, preserve and protect outstanding natural and scenic qualities of select waters and their adjacent land areas. Sections of five rivers have been designated (see below), but other possible protected waters exist, including lakes and marshes. The long-term goal of the program is to have one PWA in each of

#### the seven landform regions in lowa.



A meandering stream, Catfish Creek is a typical high quality resource water (HQR). The creek is located in Swiss Valley County Park in Dubuque County. Photo by Jamie Mootz

#### How to use the list

Look for high quality water resources by county or in the PWA list below.

#### **For More Information**

Manure applicators should see the DNR factsheet "Separation Distances for Land Application of Manure," available on the DNR website and at DNR field offices. Producers who need to use the master matrix can find more information, including an interactive matrix, under animal feeding operations on the DNR website at www.iowadnr.gov.

#### **Protected Water Areas (PWA)**

Upper Iowa River: Kendallville (Winneshiek Co.) to Hwy 76 in Allamakee Co. (64.2 miles)
Little Sioux River: Spencer (Clay Co.) to the Linn Grove Dam in Buena Vista Co. (34.5 miles)
Middle Raccoon River: Panora (Guthrie Co.) to the Redfield Dam in Dallas Co. (14.6 miles)
Wapsipinicon River: Hwy 93 (Bremer Co.) to conjunction with the Mississippi River, Clinton/ Scott Co. line (177 miles)
Boone River: Webster City (confluence of Brewers Cr.) to confluence with the Des Moines River (25 miles)

**CAUTION:** This document is only a summary of administrative rules contained in 567 IAC chapters 61 and 65; it is a guidance document and should not be used as replacement for the administrative rules. While every effort has been made to assure the accuracy of this information, the administrative rules will prevail in the event of a conflict between this document and the administrative rules. DNR 117: 3-2003

# High Quality Water Resources by County

**HQ** = High Quality Water

**HQR** = High Quality Resource Water

**PWA** = Protected Water Areas on page 1

### Allamakee

AII	amakee
	Yellow River - Mouth to Allamakee-Winneshiek
	Co. line
	Dousman Creek - Mouth to Allamakee-Clayton
	Co. line
	Suttle Creek - Mouth to Allamakee-Clayton Co.
	line
	Unnamed Creek (aka Bear Creek) - Mouth (S13,
R	T96N, R5W) to N. line of S12, T96N, R5W,
	Allamakee Co.
	Norfolk Creek - Mouth to confluence with
	Teeple Cr. (S24, T97N, R6W, Allamakee Co.)
	Teeple Creek - Mouth to W. Line of S11, T97N,
HQR	R6W, Allamakee Co.
-	Cota Creek - Mouth to W. line of S10, T97N,
	R3W, Allamakee Co.
	Trout Run - Mouth through one mile reach
	Unnamed Creek (Erickson Spring) - Mouth (S
	23, T98N R4W) to W. line of S23, T98N, R4W,
	Allamakee Co.
	Irish Hollow Creek - Mouth to N. line of S17,
	T100N, R4W, Allamakee Co.
	Clear Creek - Mouth to N. line of S15, T100N,
	R5W, Allamakee Co.
	Upper Iowa River - Lane's Bridge (Allamakee Co.) to Allamakee-Winneshiek Co. line
	-
	Paint Creek - Little Paint Creek to Rd Crossing, S18, T97N, R4W, Allamakee Co.
	Little Paint Creek - Mouth to N. line of \$30,
	T97N, R3W, Allamakee Co.
	<b>Hickory Creek</b> - Mouth to S. line of S28, T96N,
	R5W, Allamakee Co.
	Wexford Creek - Mouth to W. line of S25, T98N,
	R3W, Allamakee Co.
	<b>Village Creek</b> - Mouth to W. line of \$19, T98N,
~	R4W, Allamakee Co.
Н	<b>Clear Creek</b> - Mouth to W. line of S25, T99N,
	R4W, Allamakee Co.
	French Creek - Mouth to E. line of S23, T99N,
	R5W, Allamakee Co.
	Silver Creek - Mouth to S. line of S31, T99N,
	R5W, Allamakee Co.
	Waterloo Creek - Mouth to Iowa-Minnesota
	state line
	Patterson Creek - Mouth to E. Line S3, T98N,
	R6W, Allamakee Co.

#### Appanoose

۲	<b>Chariton River</b>	- Hwy 2	2 to	Appanoose ·	- Lucas
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HQR Co. line

BI	ack Hawk
	Cedar River - Confluence with Beaver Creek to
	Blackhawk-Bremer Co. line
	<b>W Fk Cedar River</b> - Mouth to Blackhawk-Butler
HOR	, Co. line
Ĭ	
	Co. line
	Wapsipinicon River - Buchanan-Blackhawk Co.
	Line to Blackhawk-Bremer Co. line
Bo	pone
HOR	Des Moines River - Fraiser Dam to Boone -
Ĕ	Webster Co. line
Bı	emer
	Cedar River - Bremer-Blackhawk Co. line to
	Bremer-Chickasaw Co. line
~	Shell Rock River - Bremer-Blackhawk Co. Line to
HOR	Bremer-Butler Co. line
-	Wapsipinicon River - Bremer-Blackhawk Co.
	line to Snyder's Access (S34, T93N, R12W,
	Bremer Co.)
Bı	uchanan
R	Wapsipinicon River - Linn-Buchanan Co. line to
HOR	Buchanan-Blackhawk Co. line
B	Juena Vista
HOR	Little Sioux River - entire length in Buena Vista Co.
I	
B	utler
	W Fk Cedar River - Butler-Blackhawk Co. line to
2	confluence with Maynes Creek
PH	Shell Rock River - Butler-Bremer Co. line to S.
-	corporate limits, Shell Rock (S12, T91N, R15W
	Butler Co.)
Ca	arroll
HOR	North Raccoon River - Carroll-Greene Co. line
Р	to Hwy 286 (S17, T85N, R33W, Carroll Co.)
Ce	erro Gordo
2	
<b>P</b>	1
	J

		erokee Little Sioux River - Hwy 3 in Cherokee (S26,		Turkey River - Confluence Clayton-Fayette Count Little Turkey River - Clay
	HQR	T92N, R40W, Cherokee Co.) to Buena Vista - Cherokee Co. line		to S. line S11, T90N, R3 Ram Hollow - Mouth to
ļ	Ch	ickasaw		line <b>Baron Spring</b> - Mouth to
	HQR	<b>Cedar River -</b> Bremer-Chickasaw Co. line to S29, T94N, R14W, Chickasaw Co.	ФН	T91N, R6W, Clayton Co <b>Ensign Creek</b> (aka Ensigr
	Cla	ау		spring source (S29, T92 Mink Creek - Mouth to C
	HQR	Little Sioux River - Buena Vista-Clay Co. line to east corporate limit Spencer (S17, T96N, R36W, Clay Co.)		Buck Creek - Mouth to V R3W, Clayton Co.
		Elk Lake		Sny Magill Creek - Mout T94N, R3W, Clayton Co
ĺ	Cla	ayton		North Cedar Creek - Mor T94N, R4W, Clayton Co
		Point Hollow Creek - Mouth to Clayton- Dubuque Co. line	Ce	dar
		<ul> <li>Bloody Run Creek (aka Grimes Hollow) - Mouth to Clayton-Delaware Co. line</li> <li>Pecks Creek - Mouth to S. line S15, T91N, R3W,</li> </ul>	HQR	Cedar River - Muscatine Cedar-Johnson Co. line Wapsipinicon River - Ced
		Clayton Co. South Cedar Creek - N. line S7, T92N, R3W to N. line S30, T93N, R3W, Clayton Co.	Cli	Cedar-Jones Co. line Inton
		Steeles Branch - Mouth to Clayton-Delaware Co. line	HQR	Wapsipinicon River - Mo Co. line
		Brownfield Creek - Mouth to spring source	Da	allas
		<ul> <li>(S31, T91N, R3W, Clayton Co.)</li> <li>Volga River - Mouth to Clayton-Fayette Co. line</li> <li>Bear Creek - S. Line S18, T91N, R4W to W. line</li> <li>S23, T91N, R5W, Clayton Co.</li> <li>Mossey Glen Creek - Mouth to S. line S10,</li> <li>T91N, R5W, Clayton Co.</li> </ul>	HQR	Raccoon River - Polk-Dal confluence of N. & S. R Middle Raccoon River - Guthrie Co. line North Raccoon River - M
		$I \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} \mathcal{I} I$		

HQR

 Cox Creek (aka Anderson Hollow) - Kleinlein Cr. to S. Line S12, T91N, R6W, Clayton Co.
 Kleinlein Creek (aka Spring Creek) - Mouth to spring source (S10, T91N, R6W, Clayton Co.)

Hewett Creek - Mouth to S. line of S29, T92N, R6W, Clayton Co.

**Dry Mill Creek** - Mouth to W. line of S9, T93N, R4W, Clayton Co.

- Miners Creek Hwy 52 (Clayton Co.) to W. line of S1, T92N, R3W, Clayton Co.
- Unnamed Creek (aka W. Fk. Sny Magill Cr.) -Mouth to W. line of S7, T94N, R3W, Clayton Co.
- **Bloody Run** Mouth to W. line of S22 T95N, R4W, Clayton Co.

Maquoketa River - Delaware-Clayton Co. line to Clayton-Fayette Co. line

**Pine Creek** - Mouth to confluence with Brownfield Creek (Clayton Co.)

	Turkey River - Confluence with Volga River to
	Clayton-Fayette County line
	Little Turkey River - Clayton-Delaware Co. line
	to S. line S11, T90N, R3W, Delaware Co.
	Ram Hollow - Mouth to Clayton-Delaware Co.
	line
	Baron Spring - Mouth to spring source (S4,
	T91N, R6W, Clayton Co.)
ğ	
T	spring source (S29, T92N, R6W, Clayton Co.)
	<b>Mink Creek</b> - Mouth to Clayton-Fayette Co. line
	Buck Creek - Mouth to W. line of S9, T93N,
	R3W, Clayton Co.
	Sny Magill Creek - Mouth to W. line of S6,
	T94N, R3W, Clayton Co.
	North Cedar Creek - Mouth to W. line of S24,
	T94N, R4W, Clayton Co.
Ce	edar
	Cedar River - Muscatine-Cedar Co. line to
2	Cedar-Johnson Co. line
HQR	Wapsipinicon River - Cedar-Clinton Co. line to
	Cedar-Jones Co. line
C	inton
HQR	Wapsipinicon River - Mouth to Clinton-Cedar
Ĕ	Co. line
	allas
	11103
	Raccoon River - Polk-Dallas Co. line to
	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River
	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas-
HQR	<ul> <li>Raccoon River - Polk-Dallas Co. line to confluence of N. &amp; S. Raccoon River</li> <li>Middle Raccoon River - Redfield Dam to Dallas-Guthrie Co. line</li> </ul>
	<ul> <li>Raccoon River - Polk-Dallas Co. line to confluence of N. &amp; S. Raccoon River</li> <li>Middle Raccoon River - Redfield Dam to Dallas-Guthrie Co. line</li> <li>North Raccoon River - Mouth to Dallas-Greene</li> </ul>
HQR	<ul> <li>Raccoon River - Polk-Dallas Co. line to confluence of N. &amp; S. Raccoon River</li> <li>Middle Raccoon River - Redfield Dam to Dallas-Guthrie Co. line</li> <li>North Raccoon River - Mouth to Dallas-Greene County line</li> </ul>
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ЫОК	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line North Raccoon River - Mouth to Dallas-Greene County line Ckinson Grover's Marsh Big Spirit Lake East Okoboji Lake
и Di	<ul> <li>Raccoon River - Polk-Dallas Co. line to confluence of N. &amp; S. Raccoon River</li> <li>Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line</li> <li>North Raccoon River - Mouth to Dallas-Greene County line</li> <li>ckinson</li> <li>Grover's Marsh</li> <li>Big Spirit Lake</li> <li>East Okoboji Lake</li> <li>Lower Gar Lake</li> </ul>
ЫОК	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line North Raccoon River - Mouth to Dallas-Greene County line Ckinson Grover's Marsh Big Spirit Lake East Okoboji Lake Lower Gar Lake Minnewashta Lake
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НО НОК	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line North Raccoon River - Mouth to Dallas-Greene County line Ckinson Grover's Marsh Big Spirit Lake East Okoboji Lake Lower Gar Lake Minnewashta Lake Upper Gar Lake West Okoboji Lake West Okoboji Lake Bloody Run Creek (aka Grimes Hollow) -
НО НОК	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line North Raccoon River - Mouth to Dallas-Greene County line Ckinson Grover's Marsh Big Spirit Lake East Okoboji Lake Lower Gar Lake Minnewashta Lake Upper Gar Lake West Okoboji Lake Eaware Bloody Run Creek (aka Grimes Hollow) - Clayton-Delaware Co. line to source S3, T90N,
РО НОК	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line North Raccoon River - Mouth to Dallas-Greene County line Ckinson Grover's Marsh Big Spirit Lake East Okoboji Lake Lower Gar Lake Minnewashta Lake Upper Gar Lake West Okoboji Lake Elaware Bloody Run Creek (aka Grimes Hollow) - Clayton-Delaware Co. line to source S3, T90N, R3W, Delaware Co.
РО НОК	Raccoon River - Polk-Dallas Co. line to confluence of N. & S. Raccoon River Middle Raccoon River - Redfield Dam to Dallas- Guthrie Co. line North Raccoon River - Mouth to Dallas-Greene County line Ckinson Grover's Marsh Big Spirit Lake East Okoboji Lake Lower Gar Lake Minnewashta Lake Upper Gar Lake West Okoboji Lake Eaware Bloody Run Creek (aka Grimes Hollow) - Clayton-Delaware Co. line to source S3, T90N, R3W, Delaware Co.
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- S Br Fountain Spring Creek Mouth to W. line of SW1/4, S16, T90N, R4W, Delaware Co.
- HQR Schechtman Branch - Mouth to S. line S14, T90N, R4W, Delaware Co.
  - Maguoketa River Delaware-Jones Co. line to confluence with Plum Creek
  - Maguoketa River Mouth of S. Fk. Maguoketa River to Clayton-Delaware Co. line
  - Spring Branch Mouth to spring source in S35, T89N, R5W, Delaware Co.
  - Fenchel Creek Mouth to Richmond Springs (center S4, T90N, R6W, Delaware Co.)
- д Little Turkey River - Clayton-Delaware Co. line to S. Line S11, T90N, R3W, Delaware Co. Ram Hollow - Clayton-Delaware Co. line to source S10, T90N, R3W, Delaware Co. Fountain Spring Creek - Mouth to W. line of
  - NW1/4, S16, T90N, R4W, Delaware Co.

#### Dubuque

- Catfish Creek S. line S9, T88N, R2E to W. line S30, T88N, R2E, Dubuque Co.
- Little Maquoketa River Hogans Branch to N. line of S5, T88N, R1W, Dubuque Co.
- Bloody Run Mouth to W. line S21, T90W, R2E,
- Dubuque Co. Cloie Branch Mouth to W. line S5, T89W, R2E, Dubuque Co.
  - Hogans Branch Mouth to W. line S9, T88N, R1W, Dubuque Co.
  - Point Hollow Creek Clayton-Dubuque Co. line to source (S8, T90N, R2W, Dubuque Co.)
  - Mid. Fk Little Maquoketa River W. line S31,
- дĦ T90N, R1E to N. line S33, T90N, R1W, Dubuque Co.

#### Emmet

- **Burr Oak Lake** HQR
  - **Tuttle Lake**

### Fayette

- **Volga River** Clayton-Fayette Co. line to E. corporate limit Fayette (NE1/4, S28, T93N, R8W, Fayette Co.) Brush Creek - Bear Creek to E. line of S17, T92N, HQR R7W, Fayette Co. Bell Creek - Mouth to W. line S8, T94N, R7W, Fayette Co. Bass Creek - Mouth to W. line S3, T95N, R9W, Fayette Co. Otter Creek - Mouth to confluence Grovers Cr. (S22, T94N, R8W, Fayette Co.) Ř Maquoketa River - Fayette-Clayton Co. line to Hwy. 3
- Turkey River Clayton-Fayette Co. line to Fayette-Winneshiek Co. line Mink Creek - Clayton-Fayette Co. line to W. line S15, T93N, R7W, Fayette Co. 
  **Bear Creek** - Mouth to W. line S6, T92N, R7W,

   Favorto Co
   Fayette Co. Grannis Creek - Mouth to W. line S36, T93N, R8W, Fayette Co. Unnamed Creek (aka Glovers Cr.) - Mouth to W. line S15, T94N, R8W, Fayette Co. Greene North Raccoon River - Entire length in Co. HQR Guthrie Middle Raccoon River - Dallas-Guthrie Co. line HQR to Lake Panorama Dam Lake Panorama Hamilton Boone River - Webster-Hamilton Co. line to confluence with Brewers Creek South Skunk River - Story-Hamilton Co. line to confluence with Brewers Creek Drainage Ditch 71 (S11, T86N, R24W) Hardin ∠ Iowa River - Marshall-Hardin Co. line to E. НQ corporate limits, Iowa Falls (S20, T89N, R20W) Harrison ∠ DeSoto Bend НQГ **Skunk River** - Henry Co. Rd. (S3, T71N, R7W) to Henry-Jefferson Co. Jine Henry Humboldt E. Fork Des Moines River - Mouth to Humboldt НQI - Kossuth Co. line Howard Chialk Creek - Mouth to N. line of S36, T99N, R11W, Howard Co. Upper Iowa River - Winneshiek-Howard Co. line HQR to NE1/4, S12, T100N, R13W (Howard Co.) Staff Creek - Mouth to W. line S 27, T100N, R14W
  - Beaver Creek Mouth to S. line S29, T100N, R13W, Howard Co.
  - Turkey River Howard-Winneshiek Co. line to Vernon Springs (S34, T99N, R11W)
  - HQ Bohemian Creek - Winneshiek-Howard Co. line to W. line S2, T97N, R11W, Howard Co.

- бH
- Nichols Creek (aka Bigalk Cr.) Winneshiek-Howard Co. line to W. line S23, T100N, R11W, Howard Co.

#### Jackson

- N Fork Maguoketa River Mouth to Jackson-Jones Co. line Cedar Creek - Mouth to E. line of S29, T85N, R3E, Jackson Co. Unnamed Creek - Mouth (S7, T86N, R2E) to W. **Ozark Spring Run** - Mouth to spring source in **Ozark Spring Run** - Mouth to spring source in line S11, T86N, R 1E, Jackson Co.
  - center of S32, T86N, R1E, Jackson Co. Pleasant Creek - W. line S11, T85N, R4E, to W. line S15, T85N, R4E, Jackson Co.
  - Maquoketa River Deep Creek to Jones-Jackson Co. line
  - Brush Creek N. line S23, T85N, R3E to N line S1, T85N, R3E, Jackson Co.
  - Mill Creek (aka Big Mill Creek) Confluence with Little Mill Cr. to confluence with unnamed Cr. (S1, T86N, R3E, Jackson Co.) Little Mill Creek - Mouth to W. line of S29,
  - T86N, R4E, Jackson Co.
- бH S. Fk. Big Mill Creek - Mouth to W. line of S17, T86N, R4E, Jackson Co.
  - Storybook Hollow Mouth to S. line S12, T86N, R3E, Jackson Co.
  - Unnamed Creek Mouth (S1, T86N, R3W) to W. line of S1, T86N, R3E, Jackson Co.

# **Dalton Lake**

#### Jefferson

Skunk River - Entire length in Jefferson Co.

#### Jones

HQR

- Maguoketa River Jones-Jackson Co. line to Delaware-Jones Co. line
- HQR N Fork Maguoketa River - Jackson-Jones Co. line to confluence with White Water Creek Wapsipinicon River - Cedar-Jones Co. line to Jones-Linn Co. line

#### Johnson

- Iowa River Louisa-Johnson Co. line to northern- most point of Johnson-Washington HQR Co. line
  - Cedar River Cedar-Johnson Co. line to Johnson-Linn Co. line

#### Keokuk



#### Muscatine

Cedar River - Entire length in county ۲ Ř

#### Palo Alto



Virgin Lake

#### Scott

HQR

Wapsipinicon River - entire length in Scott Co.

#### Story

South Skunk River - Ames Waterworks Dam to Story-Hamilton Co. line

### Warren

≌. HQF

North River - Co. Rd. R63 (S16, T77N, R24W) to Badger Cr. (S33, T77N, R25W, Warren Co.)

# Washington

Skunk River - Entire length in Washington Co.

Iowa River - Entire length in Washington Co.

**For Early Provided Action** For the set of t T77N, R6W, Washington Co.) with Ramsey Cr.

# Webster

- Des Moines River Boone-Webster Co. line to W. line S15, T88N, R28W, Webster Co.
- HQR Boone River - Mouth to Webster-Hamilton Co. line

# Winneshiek

HQR

- Yellow River Allamakee-Winneshiek Co. line to N. Fork Yellow R. (S13, T96N, R7W, Winneshiek Co.)
- Upper Iowa River Entire length in Co. Middle Bear Creek - Mouth to N. line S16, T100N, R7W, Winneshiek Co.
- Paint Creek (aka Pine Cr.) Mouth (Allamakee Co.) to unnamed creek (SE¼, S11, T99N, R7W, Winneshiek Co.)
- Unnamed Creek Mouth (SE¼, Sec 11, T99N, R7W) to N. line S12, T99N, R7W, Winneshiek Co.
- Pine Creek Mouth to N. line S21, T99N, R7W, Winneshiek Co.
- North Canoe Creek Mouth to N. line S2, T99N, R8W, Winneshiek Co.
- Trout Creek (aka Trout River) Mouth to confluence with Smith Cr.
- Trout Creek (aka Trout Run) Mouth to confluence with unnamed stream (S27, T98N, R8W, Winneshiek Co.)

	Ten Mile Creek - Mouth to confluence with
	Walnut Cr. (S18, T98N, R9W, Winneshiek Co.)
	Unnamed Stream (aka Casey Spring) - Mouth to
	W. line S26, T99N, R9W, Winneshiek Co.
HQR	Dry Run Creek - Mouth to W. line S36, T98N,
	R9W, Winneshiek Co.
	Martha Creek - Mouth to W. line S13, T99N,
	R10W, Winneshiek Co.
	E Pine Creek - Mouth to Iowa-Minnesota State
	line
	Pine Creek - Mouth to Iowa-Minnesota State
	line
	Silver Creek - Mouth to N. line S26, T100N,
	R9W, Winneshiek Co.
	Bohemian Creek - Mouth to Howard-
	Winneshiek Co. line
	Bear Creek - N. Bear Creek to spring source S29,
	T100N, R7W, Winneshiek Co.
	North Bear Creek - Mouth to Iowa-Minnesota
	State line
	Canoe Creek (aka W. Canoe Cr.) - Winneshiek
	Co. Rd W38 to W. line of S8, T99N, R8W,
	Winneshiek Co.
	<b>Coon Creek</b> - Mouth to road crossing S13, T98N,
σ	R7W, Winneshiek Co.
НΩ	Smith Creek (aka Trout River) - Mouth to S. line
	S33, T98N, R7W, Winneshiek Co.
	Twin Springs Creek - Mouth to springs in S20, T98N, R8W, Winneshiek Co.
	<b>Unnamed Stream</b> (aka Trout Run) - mouth to S.
	line S27, T98N, R8W, Winneshiek Co.
	Nichols Creek (aka Bigalk Cr.) - Mouth to
	Winneshiek-Howard Co. line
	Unnamed Creek (aka Cold Water Cr.) - Mouth
	to N. line S31, T100N, R9W, Winneshiek Co.
	<b>Turkey River</b> - Fayette-Winneshiek County line
	to Winneshiek-Howard Co. line
W/	orth
	Silver Lake
R	JIVEI LANC

# ¥ Silver Lake Marsh

# Wright

Elm Lake Я Д

This list was developed to assist manure applicators and applicants for a confinement feeding operation construction permit. It was current in March 2003.

If you need more information, please contact the closest DNR field office.