



U.S. ARMY CORPS OF ENGINEERS

Mississippi Valley Region, Rock Island District, Operations Division Tech Support Branch

2004 Illinois Waterway Spring Reconnaissance

LaGrange and Peoria Pools, covering river miles 80 to 231

Summation Report for areas of shoaling or concern



*LaGrange Pool Reconnaissance
performed by:*

Motor Vessel HINDS

Jim Clark - Captain

Don Flinspach

Jim Luellen

Lee Schweiger



*Peoria Pool Reconnaissance
performed by:*

Motor Vessel Holling

Sam Hoover - Captain

Jim Luellen

Lee Schweiger

Rod Clausen

To view a plot of your area of interest click on one of the survey links from the "Recent Hydrographic Condition Surveys" list below

Data collected May, June 2004



Illinois Waterway 2004 Spring Recon LAGRANGE POOL - areas of shoaling or concern

River Miles	Reach Name	Flat Pool	Left	Center	Right	Channel Condition & Comments
84.2 to 86.0	Bar Island	Affected River Mile	85.5	85.5	84.6	+/- 20' shoaling from downstream of Bar Island at RM 85.9 on Red buoy line that continues to the island.
Date 28-Apr	Min Chan Width & RM Reach 340'	Present Minimum Depth	9.9	12.7	9.9	
L.O.L. or Flat Pool of Reach = 429.0	Gage Upr Beardstown +2.0	Stage at Affected RM	0.9	0.9	0.9	
	Gage Lwr Lagrange Upr +0.9	Depth Adjusted to L.O.L.	9.0	11.8	9.0	
86.0 to 88.0	Grape Island	Affected River Mile	86.4	86.0	87.0	40' of shoaling at RM 88.7 on Green buoy line.
Date 28-Apr	Min Chan Width & RM 87.0 250'	Present Minimum Depth	9.9	11.5	9.9	
L.O.L. or Flat Pool of Reach = 429.0	Gage Upr Beardstown +2.0	Stage at Affected RM	0.9	0.9	0.9	
	Gage Lwr Lagrange Upr +0.9	Depth Adjusted to L.O.L.	9.0	10.6	9.0	
88.0 to 89.0	Beardstown	Affected River Mile	88.7	88.4	88.3	20' of shoaling at RM 86.4 on the Red buoy line.
Date 28-Apr	Min Chan Width & RM 88.0 300'	Present Minimum Depth	6.9	12.7	10.7	
L.O.L. or Flat Pool of Reach = 429.0	Gage Upr Beardstown +2.0	Stage at Affected RM	1.7	1.7	1.7	
	Gage Lwr Lagrange Upr +0.9	Depth Adjusted to L.O.L.	5.2	11.0	9.0	
90.9 to 92.5	Fredrick Landing	Affected River Mile	91.2	91.9	92.0	50' of shoaling from RM 90.9 to 91.5 on Red buoy line, and 50' of shoaling off the Red buoy line at RM 91.2.
Date 28-Apr	Min Chan Width & RM 91.0 250'	Present Minimum Depth	9.8	13.2	11.2	
L.O.L. or Flat Pool of Reach = 429.0	Gage Upr Havana Power +3.8	Stage at Affected RM	2.2	2.2	2.2	
	Gage Lwr Beardstown +2.0	Depth Adjusted to L.O.L.	7.6	11.0	9.0	
92.5 to 94.1	Sugar Creek	Affected River Mile	93.7	92.6	93.6	20' of shoaling from RM 92.8 to 94.1 on Green buoy line, and 40' of shoaling from RM 93.4 to 93.8, also on Green buoy line.
Date 28-Apr	Min Chan Width & RM 91.2 200'	Present Minimum Depth	11.2	13.3	10.2	
L.O.L. or Flat Pool of Reach = 429.0	Gage Upr Havana Power +3.8	Stage at Affected RM	2.2	2.2	2.2	
	Gage Lwr Beardstown +2.0	Depth Adjusted to L.O.L.	9.0	11.1	8.0	
94.1 to 96.0	Sugar Creek Island	Affected River Mile	94.3	95.1	95.2	20' of shoaling from RM 92.2 to 94.7 on Red buoy line. +/- 20' shoaling from RM 95.1 to 95.5 on Green buoy line.
Date 29-Apr	Min Chan Width & RM 300+	Present Minimum Depth	11.0	14.3	11.0	
L.O.L. or Flat Pool of Reach = 429.1	Gage Upr Havana Power +3.0	Stage at Affected RM	2.0	2.0	2.0	
	Gage Lwr Beardstown +1.7	Depth Adjusted to L.O.L.	9.0	12.3	9.0	
106.0 to 107.6	Grand Island Foot	Affected River Mile	106.1	107.5	106.7	Buoy position is good.
Date 4-May	Min Chan Width & RM Reach 300'	Present Minimum Depth	10.3	15.1	12.1	
L.O.L. or Flat Pool of Reach = 429.2	Gage Upr Havana Power +3.9	Stage at Affected RM	3.1	3.1	3.1	
	Gage Lwr Beardstown +2.1	Depth Adjusted to L.O.L.	7.2	12.0	9.0	
108.9 to 110.7	Anderson Lake	Affected River Mile	109.2	109.4	110.0	Buoy position is good.
Date 4-May	Min Chan Width & RM Reach 250'	Present Minimum Depth	12.1	14.9	12.1	
L.O.L. or Flat Pool of Reach = 429.2	Gage Upr Havana Power +3.9	Stage at Affected RM	3.1	3.1	3.1	
	Gage Lwr Beardstown +2.1	Depth Adjusted to L.O.L.	9.0	11.8	9.0	
110.7 to 112.0	Otter Creek	Affected River Mile	111.3	111.6	111.6	20' of shoaling off Red buoy line from RM 110.8 to 112.0. 20' of shoaling off Green buoy line from RM 111.6 to 111.9.
Date 4-May	Min Chan Width & RM 111.7 220'	Present Minimum Depth	9.6	13.8	12.1	
L.O.L. or Flat Pool of Reach = 429.2	Gage Upr Havana Power +3.9	Stage at Affected RM	3.1	3.1	3.1	
	Gage Lwr Beardstown +2.1	Depth Adjusted to L.O.L.	6.5	10.7	9.0	
112.0 to 113.7	Grand Island Head	Affected River Mile	112.3	113.4	113.7	Buoy position is good.
Date 5-May	Min Chan Width & RM 113.6	Present Minimum Depth	11.8	14.9	11.8	
L.O.L. or Flat Pool of Reach = 429.2	Gage Upr Havana Power +3.0	Stage at Affected RM	2.8	2.8	2.8	
	Gage Lwr Beardstown +1.7	Depth Adjusted to L.O.L.	9.0	12.1	9.0	
116.8 to 118.0	Devils Elbow	Affected River Mile	117.1	117.5	117.1	10' to 20' of shoaling along the Reds and Greens at the upper end of the reach. Buoy position is good.
Date 5-May	Min Chan Width & RM Reach +300'	Present Minimum Depth	10.7	13.6	9.6	
L.O.L. or Flat Pool of Reach = 429.2	Gage Upr Havana Power +3.0	Stage at Affected RM	2.8	2.8	2.8	
	Gage Lwr Beardstown +1.7	Depth Adjusted to L.O.L.	7.9	10.8	6.8	
119.8 to 121.0	Havana	Affected River Mile	120.8	120.7	120.2	+/- 10' of shoaling along the Green buoy line from RM 120.1 to 120.5. Buoy position is good.
Date 5-May	Min Chan Width & RM 120.7	Present Minimum Depth	12.0	14.9	12.0	
L.O.L. or Flat Pool of Reach = 429.2	Gage Upr Copperas +3.7	Stage at Affected RM	3.0	3.0	3.0	
	Gage Lwr Havana Power +2.9	Depth Adjusted to L.O.L.	9.0	11.9	9.0	
121.0 to 122.7	Quiver Island	Affected River Mile	121.4	121.7	122.1	Buoy position is good.
Date 5-May	Min Chan Width & RM Reach 250'	Present Minimum Depth	12.1	15.4	12.1	
L.O.L. or Flat Pool of Reach = 429.3	Gage Upr Copperas +3.7	Stage at Affected RM	3.1	3.1	3.1	
	Gage Lwr Havana Power +2.9	Depth Adjusted to L.O.L.	9.0	12.3	9.0	
130.3 to 131.7	Duck Creek Pump Station	Affected River Mile	130.6	131.0	130.8	40' of shoaling along the Red buoy line from RM 130.3 to 130.9 and 131.1 to 131.4. Shoaling along the Green buoy line from RM 130.8 to 130.9.
Date 12-May	Min Chan Width & RM 130.9	Present Minimum Depth	11.5	14.4	12.0	
L.O.L. or Flat Pool of Reach = 429.4	Gage Upr Copperas +3.7	Stage at Affected RM	3.4	3.4	3.4	
	Gage Lwr Havana Bridge +2.7	Depth Adjusted to L.O.L.	8.1	11.0	8.6	



Illinois Waterway 2004 Spring Recon LAGRANGE POOL - areas of shoaling or concern

River Miles	Reach Name	Flat Pool	Left	Center	Right	Channel Condition & Comments
131.7 to 133.1	Senate Island Lower	Affected River Mile	132.9	132.9	132.4	10' of shoaling along the Red buoy line at RM 132.9.
Date 12-May	Min Chan Width & RM 131.9	Present Minimum Depth	11.5	14.3	11.7	
L.O.L. or Flat Pool of Reach = 429.4	Gage Upr Copperas +3.7	Stage at Affected RM	3.4	3.4	3.4	
	Gage Lwr Havana Bridge +2.7	Depth Adjusted to L.O.L.	8.1	10.9	8.3	
133.1 to 134.5	Senate Island	Affected River Mile	134.1	134.0	133.6	20' of shoaling along the Red buoy line from RM 133.8 to 134.0 and 134.2 to 134.4; shoaling along the Green buoy line from 133.0 to 133.4, 133.5 to 133.7 and 134.0 to 134.5.
Date 12-May	Min Chan Width & RM 133.9	Present Minimum Depth	10.9	14.7	11.1	
L.O.L. or Flat Pool of Reach = 429.4	Gage Upr Copperas +3.7	Stage at Affected RM	3.4	3.4	3.4	
	Gage Lwr Havana Bridge +2.7	Depth Adjusted to L.O.L.	7.5	11.3	7.7	
134.5 to 136.0	Duck Island	Affected River Mile	134.7	135.4	134.5	+/- 20' of shoaling along buoy line from RM 134.6 to 134.9, 135.0 to 135.2, 135.4 to 135.5 and 135.6 to 136.0L.
Date 12-May	Min Chan Width & RM 134.5	Present Minimum Depth	12.1	14.5	11.9	
L.O.L. or Flat Pool of Reach = 429.5	Gage Upr Copperas +3.7	Stage at Affected RM	3.6	3.6	3.6	
	Gage Lwr Havana Bridge +2.7	Depth Adjusted to L.O.L.	8.5	10.9	8.3	
136.0 to 137.4	Copperas Creek Lock	Affected River Mile	137.0	137.1	136.7	Pilots favor the center of the channel. Buoy position is good.
Date 18-May	Min Chan Width & RM 300' Reach	Present Minimum Depth	17.6	20.1	17.3	
L.O.L. or Flat Pool of Reach = 429.5	Gage Upr Mackinaw (CFI) +9.4	Stage at Affected RM	8.7	8.7	8.7	
	Gage Lwr Copperas +8.7	Depth Adjusted to L.O.L.	8.9	11.4	8.6	
137.4 to 138.8	Copperas Creek	Affected River Mile	138.0	138.0	137.4	Shoaling of +/- 20' at RM 137.9R below delta. Minimum channel width is 300'. Buoy position is good.
Date 18-May	Min Chan Width & RM 300' Reach	Present Minimum Depth	18.4	21.2	17.5	
L.O.L. or Flat Pool of Reach = 429.5	Gage Upr Mackinaw (CFI) +9.4	Stage at Affected RM	8.8	8.8	8.8	
	Gage Lwr Copperas +8.7	Depth Adjusted to L.O.L.	9.6	12.4	8.7	
138.8 to 140.1	Canton Landing	Affected River Mile	140.2	139.5	140.0	Buoy position is good.
Date 18-May	Min Chan Width & RM 330' Reach	Present Minimum Depth	17.2	21.8	17.8	
L.O.L. or Flat Pool of Reach = 429.6	Gage Upr Mackinaw (CFI) +9.4	Stage at Affected RM	8.9	8.9	8.9	
	Gage Lwr Copperas +8.7	Depth Adjusted to L.O.L.	8.3	12.9	8.9	
140.1 to 141.5	Coon Hollow Island	Affected River Mile	140.8	140.9	140.5	+/- 50' of shoaling along the Green buoy line at RM 140.8 to 141.1. No buoys at this location.
Date 18-May	Min Chan Width & RM 141.0	Present Minimum Depth	17.7	20.6	17.7	
L.O.L. or Flat Pool of Reach = 429.6	Gage Upr Mackinaw (CFI) +9.4	Stage at Affected RM	9.1	9.1	9.1	
	Gage Lwr Copperas +8.7	Depth Adjusted to L.O.L.	8.6	11.5	8.6	
141.5 to 142.9	Lancaster Light	Affected River Mile	141.9	142.3	142.3	Buoy position is good, but favor mid-channel.
Date 18-May	Min Chan Width & RM 142.5	Present Minimum Depth	16.8	21.0	16.8	
L.O.L. or Flat Pool of Reach = 429.6	Gage Upr Mackinaw (CFI) +9.4	Stage at Affected RM	9.1	9.1	9.1	
	Gage Lwr Copperas +8.7	Depth Adjusted to L.O.L.	7.7	11.9	7.7	
142.9 to 144.3	Lancaster Landing	Affected River Mile	143.6	143.8	143.7	20' of shoaling along the Red buoy line at RM 143.0. Buoy position is good.
Date 17-May	Min Chan Width & RM 143.0	Present Minimum Depth	17.6	20.2	17.1	
L.O.L. or Flat Pool of Reach = 429.6	Gage Upr Mackinaw (CFI) +9.2	Stage at Affected RM	8.9	8.9	8.9	
	Gage Lwr Havana Bridge +6.4	Depth Adjusted to L.O.L.	8.7	11.3	8.2	
144.3 to 145.7	Kingston Mines	Affected River Mile	143.0	144.4	144.3	Buoy position is good.
Date 17-May	Min Chan Width & RM 300' Reach	Present Minimum Depth	18.5	19.7	17.5	
L.O.L. or Flat Pool of Reach = 429.7	Gage Upr Mackinaw (CFI) +9.2	Stage at Affected RM	9.0	9.0	9.0	
	Gage Lwr Havana Bridge +6.4	Depth Adjusted to L.O.L.	9.5	10.7	8.5	
145.7 to 147.1	Mackinaw River Lower	Affected River Mile	146.4	145.7	146.1	+/- 15' of shoaling along the Red buoy line. Buoy placement is good.
Date 17-May	Min Chan Width & RM 146.3	Present Minimum Depth	18.2	20.6	18.2	
L.O.L. or Flat Pool of Reach = 430.0	Gage Upr Mackinaw (CFI) +9.2	Stage at Affected RM	9.2	9.2	9.2	
	Gage Lwr Havana Bridge +6.4	Depth Adjusted to L.O.L.	9.0	11.4	9.0	
147.1 to 148.4	Mackinaw River	Affected River Mile	Reach 147.1	Reach 147.1	Reach 147.1	Delta building at mouth of Mackinaw. 100' of shoaling at RM 147.8L.
Date 12-May	Min Chan Width & RM 148.1	Present Minimum Depth	18.4	20.1	18.4	
L.O.L. or Flat Pool of Reach = 429.7	Gage Upr Peoria Lock tail +4.3	Stage at Affected RM	9.4	9.4	9.4	
	Gage Lwr Mackinaw CFI + 3.8	Depth Adjusted to L.O.L.	9.0	10.7	9.0	
149.9 to 151.5	Pekin Bend	Affected River Mile	Reach 150.5	Reach 150.5	Reach 150.5	Shoaling present on Green and Red buoy lines at RM 105.6.
Date 17-May	Min Chan Width & RM 150.6	Present Minimum Depth	18.4	19.3	18.4	
L.O.L. or Flat Pool of Reach = 429.8	Gage Upr Peoria Lower +10.1	Stage at Affected RM	9.4	9.4	9.4	
	Gage Lwr CFI +9.2	Depth Adjusted to L.O.L.	9.0	9.9	9.0	



Illinois Waterway 2004 Spring Recon

PEORIA POOL - areas of shoaling or concern.

River Miles	Reach Name	Flat Pool	Left	Center	Right	Channel Condition & Comments
157.7 to 159.3	Peoria Lock upper	Affected River Mile	Reach	159.4	Reach	Buoy position is good, slight shoaling.
Date 17-May	Min Chan Width & RM 425 @ 159.2	Present Minimum Depth	9.3	15.3	9.3	
L.O.L. or Flat Pool	Gage Upr Peo Upper +0.3	Stage at Affected RM	0.3	0.3	0.3	
of Reach = 440.0	Gage Lwr Peo Upper +0.3	Depth Adjusted to L.O.L.	9.0	15.0	9.0	
159.3 to 160.6	Wesley Bend	Affected River Mile	Reach		Reach	Bend is constricted to 425'+. Shoaling from RM 159.3 to 159.6 on Green buoy line.
Date 17-May	Min Chan Width & RM 300+	Present Minimum Depth	9.5	15.5	9.5	
L.O.L. or Flat Pool	Gage Upr Peoria Boat Yard +1.2	Stage at Affected RM	0.5	0.5	0.5	
of Reach = 440.0	Gage Lwr Peoria Upper +0.1	Depth Adjusted to L.O.L.	9.0	15.0	9.0	
180.0 to 181.5	Chillicothe	Affected River Mile	Reach		Reach	Shoaling at RM 181.0 to 181.2 on Green buoy line.
Date 19-May	Min Chan Width & RM 300+	Present Minimum Depth	11.2	14.0	11.2	
L.O.L. or Flat Pool	Gage Upr Chillicothe +2.2	Stage at Affected RM	2.2	2.2	2.2	
of Reach = 440.0	Gage Lwr Chillicothe +2.2	Depth Adjusted to L.O.L.	9.0	11.8	9.0	
199.9 to 201.3	Willow Island	Affected River Mile	Reach	200.9	Reach	Shoaling along Green buoy line at RM 200.9
Date 25-May	Min Chan Width & RM 275' @ 200.9	Present Minimum Depth	13.6	16.9	13.6	
L.O.L. or Flat Pool	Gage Upr Hennepin +4.4	Stage at Affected RM	4.6	4.6	4.6	
of Reach = 440.1	Gage Lwr Henry +4.1	Depth Adjusted to L.O.L.	9.0	12.3	9.0	
206.8 to 208.2	Hennepin	Affected River Mile	Reach		Reach	Shoaling between RM 206.1 and 207.0. Channel favors left descending bank.
Date 26-May	Min Chan Width & RM 300+	Present Minimum Depth	14.0	17.0	14.0	
L.O.L. or Flat Pool	Gage Upr Hennepin +5.2	Stage at Affected RM	5.0	5.0	5.0	
of Reach = 440.1	Gage Lwr Henry +4.0	Depth Adjusted to L.O.L.	9.0	12.0	9.0	
208.2 to 209.5	IM Canal	Affected River Mile	Reach	209.1	Reach	Shoaling on Green buoy line at RM 209.0 to 209.3.
Date 26-May	Min Chan Width & RM 300+	Present Minimum Depth	14.5	16.8	14.5	
L.O.L. or Flat Pool	Gage Upr Spring Valley +6.5	Stage at Affected RM	5.5	5.5	5.5	
of Reach = 440.1	Gage Lwr Hennepin +5.2	Depth Adjusted to L.O.L.	9.0	11.3	9.0	
210.8 to 212.2	Illinois Power	Affected River Mile	Reach	212.0	Reach	Buoy position good.
Date 26-May	Min Chan Width & RM 275' @ 212.0	Present Minimum Depth	14.5	17.5	14.5	
L.O.L. or Flat Pool	Gage Upr Spring Valley +6.5	Stage at Affected RM	5.5	5.5	5.5	
of Reach = 440.1	Gage Lwr Hennepin +5.2	Depth Adjusted to L.O.L.	9.0	12.0	9.0	
212.2 to 213.6	Lyon's Lake	Affected River Mile	Reach	212.6	Reach	Minor shoaling at RM 212.5 to 40' channelward of Green buoy line.
Date 26-May	Min Chan Width & RM	Present Minimum Depth	15.0	16.7	15.0	
L.O.L. or Flat Pool	Gage Upr Spring Valley +6.5	Stage at Affected RM	6.0	6.0	6.0	
of Reach = 440.2	Gage Lwr Hennepin +5.2	Depth Adjusted to L.O.L.	9.0	10.7	9.0	
215.0 to 216.4	Clark Island	Affected River Mile	Reach	215.5	Reach	Buoy position good. 125' of shoaling on Green buoy line at RM 215.7.
Date 26-May	Min Chan Width & RM 225' @ 215.1	Present Minimum Depth	15.0	17.2	15.0	
L.O.L. or Flat Pool	Gage Upr Spring Valley +6.5	Stage at Affected RM	6.0	6.0	6.0	
of Reach = 440.2	Gage Lwr Hennepin +5.2	Depth Adjusted to L.O.L.	9.0	11.2	9.0	
216.4 to 217.8	Spring Valley Lower	Affected River Mile	Reach	217.1	Reach	125' of shoaling on Green buoy line from RM 217.0 to 217.3.
Date 26-May	Min Chan Width & RM 200' @ 217.4	Present Minimum Depth	15.5	17.1	15.5	
L.O.L. or Flat Pool	Gage Upr Spring Valley +6.5	Stage at Affected RM	6.5	6.5	6.5	
of Reach = 440.2	Gage Lwr Hennepin +5.2	Depth Adjusted to L.O.L.	9.0	10.6	9.0	
217.8 to 219.1	Spring Valley	Affected River Mile	Reach	219.0	Reach	Buoy position good.
Date 26-May	Min Chan Width & RM 225' @ 218.6	Present Minimum Depth	15.5	17.5	15.5	
L.O.L. or Flat Pool	Gage Upr Spring Valley +6.5	Stage at Affected RM	6.5	6.5	6.5	
of Reach = 440.2	Gage Lwr Hennepin +5.2	Depth Adjusted to L.O.L.	9.0	11.0	9.0	
219.1 to 220.6	Huse Slough	Affected River Mile	Reach	219.4	Reach	Buoy position good.
Date 2-Jun	Min Chan Width & RM 225' @ 220.4	Present Minimum Depth	21.5	22.8	21.5	
L.O.L. or Flat Pool	Gage Upr LaSalle +13.4	Stage at Affected RM	12.5	12.5	12.5	
of Reach = 440.2	Gage Lwr Spring Valley +12.3	Depth Adjusted to L.O.L.	9.0	10.3	9.0	
225.3 to 227.0	Vermillion River	Affected River Mile	Reach	226.2	Reach	Shoaling on Green buoy line at RM 226.1 to 226.3
Date 2-Jun	Min Chan Width & RM 250' @ 226.1	Present Minimum Depth	22.9	24.5	22.9	
L.O.L. or Flat Pool	Gage Upr Starved Rock Lower +14.7	Stage at Affected RM	13.9	13.9	13.9	
of Reach = 440.3	Gage Lwr LaSalle +13.4	Depth Adjusted to L.O.L.	9.0	10.6	9.0	
227.0 to 228.5	Deer Park Light	Affected River Mile	Reach	228.4	Reach	Buoy position good.
Date 2-Jun	Min Chan Width & RM 250' @ 228.5	Present Minimum Depth	22.9	23.9	22.9	
L.O.L. or Flat Pool	Gage Upr Starved Rock Lower +14.7	Stage at Affected RM	13.9	13.9	13.9	
of Reach = 440.3	Gage Lwr LaSalle +13.4	Depth Adjusted to L.O.L.	9.0	10.0	9.0	
229.6 to 230.3	Plum Island Lower	Affected River Mile	Reach	229.7	Reach	125' of shoaling on Red buoy line at RM 230.4 to 230.6. Buoy position good.
Date 2-Jun	Min Chan Width & RM 250' @ 230.2	Present Minimum Depth	22.7	23.3	22.7	
L.O.L. or Flat Pool	Gage Upr Starved Rock Lower +14.0	Stage at Affected RM	13.7	13.7	13.7	
of Reach = 440.3	Gage Lwr LaSalle +12.9	Depth Adjusted to L.O.L.	9.0	9.6	9.0	