Quasar: Application Rate Calibration Log

All Application Rates must be verified by measurement of distance designated for equipment used for beneficial use application. Calibration should be done upon arrival at each beneficial use land application site.

Date	Desired App Rate (gal/acre)	Respective Distance (ft)	Distance Measured (y/n)	Equipment	Site #	Initials
4/15	10,000	1701	Y	MASTE	[illegible]	[illegible]
4/19	10,000	1701	Y	MASTE	[illegible]	[illegible]

gm -

SC Rock

Field area = 17.2
Total area = 17.2
Total vol = 303974
Field vol = 173831

3280
2280
1500

TruckPro.com

ARMADA BettsHD SKF Delco Remy Haldex
MONROE Mystik PHILLIPS STEMCO
Trucklite TRUPOWER

RE BUA Operator Daily Log

Site #: MOQ-05-07 Date: 4-18-16

Hours of Operation: 7:45 am / pm to 6:45 am / pm

Weather Conditions: Sunny & Dry

Are Signs Posted? (yes / no) Buffers Flagged? (yes / no)

Does the field have drainage (tile)? (yes / no) Are Tile Outlets Plugged? (yes / no)

Method of Application? (surface app / injection) App Rate (gal/acre): 10,000

Next Year's Crop: Corn

Number of Loads to Site: ~~173,000~~ 32 Are Hauling Logs Attached? (yes/No)

Gallon Applied To Site On This Date: 193000

Approximate Acres Applied On This Date: 17.2

Notes:

Operator Name: Timothy Dawson

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 4/18/16
Start Time: 8:30am
End Time: 7:00pm
Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOO-05-07	8:15am	8:55am	6000	9:05am	10:40am
2		10:53am	11:20am		11:30am	12:33pm
3		12:53pm	1:20pm		1:30pm	2:50pm
4		3:30pm	3:54pm		4:02pm	4:46pm
5		5:03pm	5:20pm		5:30pm	5:53pm
6		6:06pm	6:16pm		6:26pm	6:42pm
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Company: Reversy
Truck Number: 123
Driver Sig:
Date: 4/18/16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR
CALL IN #: 216-395-7415
PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 4/18/16
Start Time: 7.0 m.
End Time: 7.00 P.M.
Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-05-07	8.15am	9.30am	6000	9.42am	10.37am
2		10.54am	11.12am	6000	11.24am	12.26pm
3		12.37am	1.11pm	6000	1.28pm	4.30pm
4		4.45pm	4.53pm	600	5.08pm	5.21pm
5		5.33pm	5.45pm	6000	6.00pm	6.15pm
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Company: Secret LLC
Truck Number: 777
Driver Sig: [illegible]
Date: 4/18/16
Plant Operator Sig:
Date:
Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR
CALL IN #: 216-395-7415
PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 04-18-2016
Start Time: 7:00
End Time:
Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-OS-07	8:15	9:00	6000	9:45	10:10
2		10:40	10:50		11:00	11:05
3		12:20	12:30	12005	12:45	1:21
4		1:45	1:57		2:00	2:02
5		2:45	3:04		3:20	3:05
6		4:00	4:13		4:30	4:56
7		5:20				
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Company: Seneca LLC
Truck Number: 009
Driver Sig:
Date: 04-18-2016

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR
CALL IN #: 216-395-7415
PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 4-18-16
Start Time: 8AM
End Time: 1830

Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-05-07	0814	0851	6000	0903	0938
2		0954	1010		1019	1055
3		1100	1133		1142	1218
4		1259	1333		1342	1400
5		1411	1425		1435	1523
6		1620	1634		1645	1705
7		1717	1725		1732	1809
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Company: [illegible]

Truck Number: 010

Driver Sig: [illegible]

Date: 4-18-16

Plant Operator Sig:

Date:

Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR

CALL IN #: 216-395-7415

PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

News Headlines

- 2016 Spotter Training Class Schedule
- Latest Snowfall Climatology

En Español Share

Current conditions at

Delaware Municipal Airport (KDLZ)

Lat: 40.42°N Lon: -82.95°W Elev: 948ft

Fair

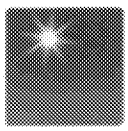
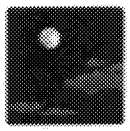
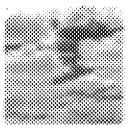
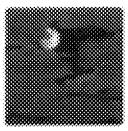
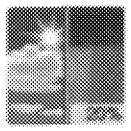
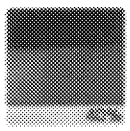
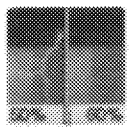
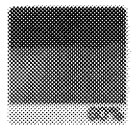
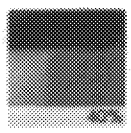
43°F

6°C

Humidity	93%
Wind Speed	Calm
Barometer	30.34 in
Dewpoint	41°F (5°C)
Visibility	10.00 mi
Last update	18 Apr 6:35 am EDT

Extended Forecast for

Ashley OH

Today	Tonight	Tuesday	Tuesday Night	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday
								
Sunny	Mostly Clear	Partly Sunny	Mostly Cloudy	Mostly Sunny then Slight Chance Showers	Chance Showers	Chance T-storms then Showers Likely	Showers Likely	Chance Showers
High: 80 °F	Low: 51 °F	High: 70 °F	Low: 45 °F	High: 70 °F	Low: 53 °F	High: 70 °F	Low: 54 °F	High: 64 °F

Detailed Forecast

Today
Sunny, with a high near 80. Calm wind becoming west around 5 mph in the afternoon.

Tonight
Mostly clear, with a low around 51. West wind 3 to 5 mph.

Tuesday
Partly sunny, with a high near 70. North wind 7 to 10 mph.

Tuesday Night
Mostly cloudy, with a low around 45. Northeast wind around 9 mph.

Wednesday
A slight chance of showers after 1pm. Partly sunny, with a high near 70. East wind around 10 mph. Chance of precipitation is 20%.

Wednesday Night
A chance of showers, mainly after 7pm. Mostly cloudy, with a low around 53. Chance of precipitation is 40%. New precipitation amounts of less than a tenth of an inch possible.

Thursday
A chance of showers before 9am, then a chance of showers and thunderstorms between 9am and 1pm, then showers likely and possibly a thunderstorm after 1pm. Cloudy, with a high near 70. Chance of precipitation is 60%.

Thursday Night
Showers likely, mainly before 7pm. Mostly cloudy, with a low around 54. Chance of precipitation is 60%.

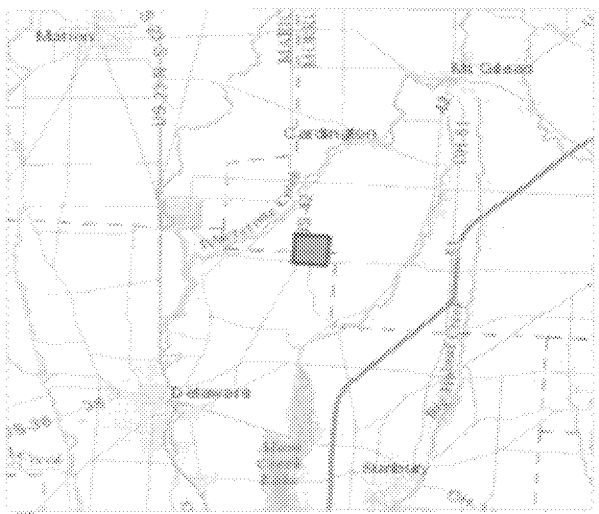
Friday
A chance of showers. Partly sunny, with a high near 64. Chance of precipitation is 40%.

Friday Night
Partly cloudy, with a low around 41.

Saturday
Mostly sunny, with a high near 55.

Saturday Night
Partly cloudy, with a low around 41.

Sunday
Mostly sunny, with a high near 59.



Point Forecast:
Ashley OH
40.42°N 82.95°W (Elev. 958 ft)

Last Update:
5:48 am EDT Apr 18, 2016

Forecast Valid:
6am EDT Apr 18, 2016-6pm EDT Apr 24, 2016

Additional Resources

Radar & Satellite Image

165

TruckPro.com

RE BUA Operator Daily Log

Site #: MOO-05-07 Date: 4-19-16

Hours of Operation: 7:00 (am) / pm to 5:00 am / (pm)

Weather Conditions: Sunny/Dry

Are Signs Posted? (yes) / no) Buffers Flagged? (yes) / no)

Does the field have drainage (tile)? (yes) / no) Are Tile Outlets Plugged? (yes / (no))

Method of Application? (surface app / (injection)) App Rate (gal/acre): 10,000

Next Year's Crop: Corn

Number of Loads to Site: 28 Are Hauling Logs Attached? (yes) / No)

Gallon Applied To Site On This Date: 164750

Approximate Acres Applied On This Date: 16.5

Notes:

Operator Name: Tim Dawson

Operator Signature: Timothy R. Dawson

RE Operator Signature:

For Assistance:
quasar equate Manager: Samuel Mullins (216) 978-4697
quasar V.P. of Technical Affairs: Bruce Bailey (216) 538-1151
Emergency Spill Hotline: 1-800-282-9378

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

News Headlines

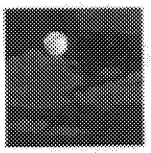
- 2016 Spotter Training Class Schedule
- Latest Snowfall Climatology

En Español Share

Current conditions at

Delaware Municipal Airport (KDLZ)

Lat: 40.42°N Lon: -82.95°W Elev: 945ft



Fair

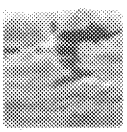
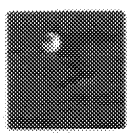
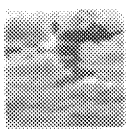
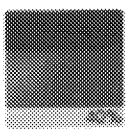
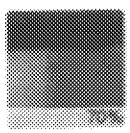
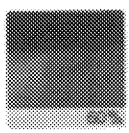
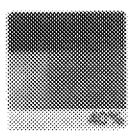
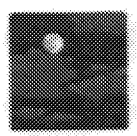
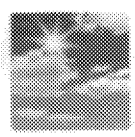
55°F

13°C

Humidity	63%
Wind Speed	Calm
Barometer	30.17 in
Dewpoint	43°F (6°C)
Visibility	10.00 mi
Last update	19 Apr 6:35 am EDT

Extended Forecast for

Ashley OH

Today	Tonight	Wednesday	Wednesday Night	Thursday	Thursday Night	Friday	Friday Night	Saturday
								
Partly Sunny	Mostly Cloudy	Partly Sunny	Chance Showers	Showers Likely	Showers Likely	Chance Showers	Partly Cloudy	Mostly Sunny
High: 71 °F	Low: 44 °F	High: 73 °F	Low: 57 °F	High: 71 °F	Low: 53 °F	High: 64 °F	Low: 42 °F	High: 62 °F

Detailed Forecast

Today
Partly sunny, with a high near 71. Light northwest wind becoming northeast 5 to 10 mph in the morning.

Tonight
Mostly cloudy, with a low around 44. Northeast wind around 9 mph.

Wednesday
Partly sunny, with a high near 73. East wind 8 to 11 mph.

Wednesday Night
A chance of showers, mainly after 10pm. Cloudy, with a low around 57. Southeast wind 7 to 10 mph. Chance of precipitation is 40%. New precipitation amounts of less than a tenth of an inch possible.

Thursday
A chance of showers and thunderstorms, then showers likely and possibly a thunderstorm after 9am. Cloudy, with a high near 71. Southwest wind 10 to 17 mph. Chance of precipitation is 70%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Thursday Night
Showers likely and possibly a thunderstorm before 10pm, then a chance of showers and thunderstorms between 10pm and 11pm, then a chance of showers after 11pm. Mostly cloudy, with a low around 53. Chance of precipitation is 60%. New precipitation amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Friday
A chance of showers before 4pm. Mostly cloudy, with a high near 64. Chance of precipitation is 40%.

Friday Night
Partly cloudy, with a low around 42.

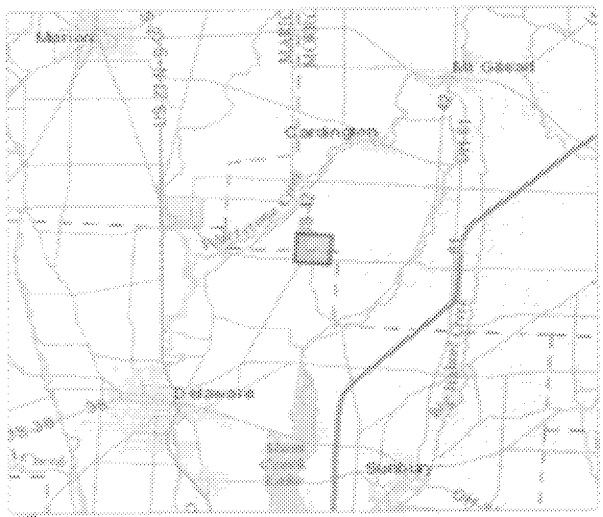
Saturday
Mostly sunny, with a high near 62.

Saturday Night
Partly cloudy, with a low around 42.

Sunday
Mostly sunny, with a high near 66.

Sunday Night
A chance of showers. Mostly cloudy, with a low around 45. Chance of precipitation is 30%.

Monday
A chance of showers. Partly sunny, with a high near 62. Chance of precipitation is 30%.



Forecast Area

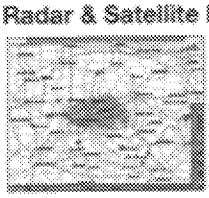
Point Forecast:
Ashley OH
40.42°N 82.95°W (Elev. 958 ft)

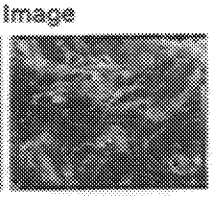
Last Update:
5:53 am EDT Apr 19, 2016

Forecast Valid:
6am EDT Apr 19, 2016-6pm EDT Apr 25, 2016

Additional Resources

Radar & Satellite Image





Renergy Daily Effluent Route Log

461 State Route 61
Marengo, Ohio 43334
419-253-5300

Date: 4-19-16
Start Time: 0700
End Time: 1650

Renergy Plant: Emerald BioEnergy

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-05-07	0715	0724	6000	0734	0750
2		0801	0815		0823	0947
3		0959	1017		1026	1046
4		1058	1115		1125	1146
5		1157	1208		1216	1229
6		1240	1254		1302	1329
7		1345	1355		1410	1421
8		1431	1505		1514	1531
9		1541	1556		1604	1623
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Company: Secret LLC
Truck Number: 010

Driver Sig: Nancy Brown (Roger)
Date: 4-19-16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO SUBMIT THIS LOG SHEET TO RENERGY EVERY DAY

PROVIDE: TOTAL HOURS, NUMBER OF LOADS, RENERGY FACILITY, FIELD I.D.

Last Revised 4/17/16

Renergy Daily Effluent Route Log

461 State Route 61
Marengo, Ohio 43334
419-253-5300

Date: 04-19-2016
Start Time: 7:00 pm
End Time:

Renergy Plant: Emerald BioEnergy

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1		7:00	7:30	6000	8:00	8:20
2		8:35	8:50		9:45	10:05
3		10:15	10:32		10:48	10:58
4		11:20	11:30		11:49	12:10
5		12:20	12:32		12:45	1:05
6		1:25	1:35		1:45	2:10
7		2:28	2:40		3:00	3:20
8		3:47	4:00		4:20	4:30
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Company: Seeral LLC
Truck Number: 029

Driver Sig: [signature]
Date: 04-19-2016

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO SUBMIT THIS LOG SHEET TO RENERGY EVERY DAY

PROVIDE: TOTAL HOURS, NUMBER OF LOADS, RENERGY FACILITY, FIELD I.D.

Last Revised 4/17/16

Renergy Daily Effluent Route Log

461 State Route 61
Marengo, Ohio 43334
419-253-5300

Date: 4/19/16
Start Time: 7:00 am
End Time: 5:00 pm

Renergy Plant: Emerald BioEnergy

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOG 05-07	7:39	8:06	6000	8:17	9:37
2		9:53	10:10	6000	10:23	10:46
3		10:57	11:08	6000	11:20	11:32
4		11:45	11:54	6000	12:06	12:19
5		12:31	12:44	6000	12:57	1:17
6		1:30	1:40	6000	1:53	2:10
7		2:22	2:39	6000	2:52	3:03
8		3:14	3:27	6000	3:40	3:53
9		4:05	4:17	6000	4:32	4:46
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24						

Company: Seeral LLC
Truck Number: 777

Driver Sig: Roopi
Date: 4/19/16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO SUBMIT THIS LOG SHEET TO RENERGY EVERY DAY

PROVIDE: TOTAL HOURS, NUMBER OF LOADS, RENERGY FACILITY, FIELD I.D.

Last Revised 4/17/16

Renergy Daily Effluent Route Log

461 State Route 61
Marengo, Ohio 43334
419-253-5300

Date: 4/19/16
Start Time: 7:00am
End Time: 10:30am

Renergy Plant: Emerald BioEnergy

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-OS-01	7:37am	7:59am	6000	8:04	9:33am
2		9:57am	10:00am		10:09am	10:24am
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Company: Renergy
Truck Number: 173

Driver Sig: Scott Moder
Date: 4/19/16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO SUBMIT THIS LOG SHEET TO RENERGY EVERY DAY

PROVIDE: TOTAL HOURS, NUMBER OF LOADS, RENERGY FACILITY, FIELD I.D.

Last Revised 4/17/16

14

Sc 11 2

70,724

7.1

TruckPro.com

RE BUA Operator Daily Log

Site #: MDR-05-07 Date: 4-20-16

Hours of Operation: 7:00 (am) / pm to 11:00 (am) / pm

Weather Conditions: Sunny Day

Are Signs Posted? (yes) / no)

Buffers Flagged? (yes) / no)

Does the field have drainage (tile)? (yes) / no)

Are Tile Outlets Plugged? (yes / (no))

Method of Application? (surface app / (injection))

App Rate (gal/acre): 10,000

Next Year's Crop: Corn

Number of Loads to Site: 12

Are Hauling Logs Attached? (yes)/No)

Gallon Applied To Site On This Date: 70,724

Approximate Acres Applied On This Date: 7.1

Notes:

Operator Name: Tim Dawson

Operator Signature: Timothy R Dawson

RE Operator Signature:

For Assistance:
quasar equate Manager: Samuel Mullins (216) 978-4697
quasar V.P. of Technical Affairs: Bruce Bailey (216) 538-1151
Emergency Spill Hotline: 1-800-282-9378

NATIONAL WEATHER SERVICE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

News Headlines

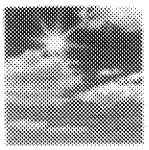
- 2016 Storm Training Class Schedule
- Latest Snowfall Observations
- Spring Frost/Freeze Info

En Español Share

Current conditions on

Delaware Municipal Airport (KDLZ)

Lat: [illegible] Lon: [illegible] Elev: [illegible]



Fair

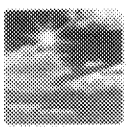
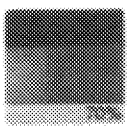
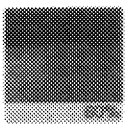
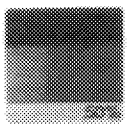
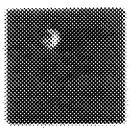
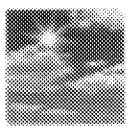
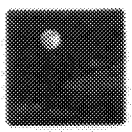
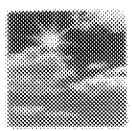
68°F

20°C

Humidity	28%
Wind Speed	6 mph
Barometer	30.16 in
Dewpoint	32°F (0°C)
Visibility	10.00 mi
Last update	30 Apr 12:56 pm EDT

Extended Forecast for

Ashley OH

This Afternoon	Tonight	Thursday	Thursday Night	Friday	Friday Night	Saturday	Saturday Night	Sunday
								
Mostly Sunny	Mostly Cloudy then Chance Showers	Showers Likely	Showers Likely	Chance Showers	Mostly Cloudy	Mostly Sunny	Mostly Clear	Mostly Sunny
High: 74 °F	Low: 58 °F	High: 70 °F	Low: 54 °F	High: 66 °F	Low: 40 °F	High: 64 °F	Low: 42 °F	High: 69 °F

Detailed Forecast

This Afternoon
Mostly sunny, with a high near 74. Southeast wind around 11 mph.

Tonight
A chance of showers, mainly after 4am. Mostly cloudy, with a low around 58. South wind 7 to 9 mph. Chance of precipitation is 30%. New precipitation amounts of less than a tenth of an inch possible.

Thursday
Showers likely, with thunderstorms also possible after noon. Cloudy, with a high near 70. Southwest wind 10 to 14 mph. Chance of precipitation is 70%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Thursday Night
Showers likely and possibly a thunderstorm. Cloudy, with a low around 54. Southwest wind 8 to 10 mph. Chance of precipitation is 60%. New precipitation amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Friday
A chance of showers, with thunderstorms also possible after 10am. Mostly cloudy, with a high near 66. West wind around 9 mph becoming northwest in the afternoon. Chance of precipitation is 60%. New rainfall amounts between a tenth and quarter of an inch, except higher amounts possible in thunderstorms.

Friday Night
Mostly cloudy, with a low around 40.

Saturday
Mostly sunny, with a high near 64.

Saturday Night
Mostly clear, with a low around 42.

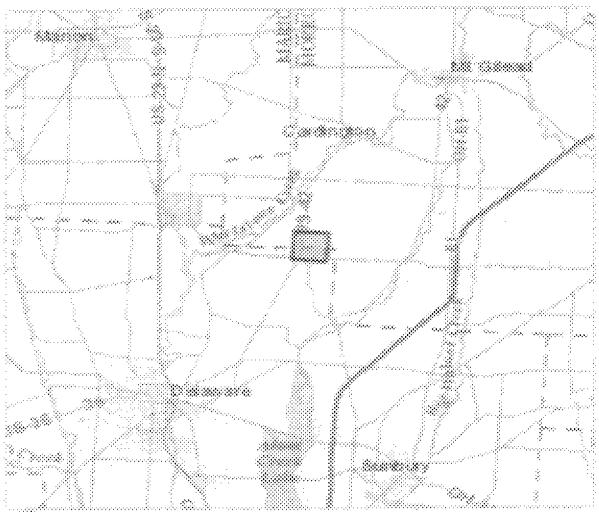
Sunday
Mostly sunny, with a high near 69.

Sunday Night
Mostly cloudy, with a low around 46.

Monday
A chance of showers and thunderstorms. Partly sunny, with a high near 68. Chance of precipitation is 30%.

Monday Night
A chance of showers and thunderstorms. Mostly cloudy, with a low around 48. Chance of precipitation is 50%.

Tuesday
A chance of showers and thunderstorms. Mostly cloudy, with a high near 60. Chance of precipitation is 50%.



Point Forecast:
Ashley OH
40.42°N 82.88°W (Elev. 968 ft)

Last Update:
12:56 pm EDT Apr 30, 2016

Forecast Valid:
1pm EDT Apr 30, 2016-6pm EDT Apr 28, 2016

Additional Resources

Radar & Satellite Image

Renergy Daily Effluent Route Log

461 State Route 61
Marengo, Ohio 43334
419-253-5300

Date: 4-20-16
Start Time: 0638
End Time: 1812

Renergy Plant: Emerald BioEnergy

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-05-07	0651	0716	6000	0725	0742
2		0753	0808		0815	0831
3		0842	0854		0902	0938
4		0948	1008		1015	1044
5	~~MOQ-05-08~~	~~1054~~	~~1400~~	~~6000~~	~~1415~~	~~1458~~
6		~~1508~~	~~1616~~		~~1528~~	~~1556~~
7		~~1606~~	~~1622~~		~~1635~~	~~1650~~
8		~~1658~~	~~1715~~		~~1728~~	~~1753~~
9						
10						
11						
12						
13						
14						
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16						
17						
18						
19						
20						
21						
22						
23						
24						

Company: Secret LLC
Truck Number: 010

Driver Sig: Henry Brown (Roger)
Date: 4-20-16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO SUBMIT THIS LOG SHEET TO RENERGY EVERY DAY

PROVIDE: TOTAL HOURS, NUMBER OF LOADS, RENERGY FACILITY, FIELD I.D.

Last Revised 4/17/16

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 4/20/16 AM
Start Time: 8:00am
End Time: 10:30am
Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-05-07	8:30am	8:43am	6000	8:55am	9:30am
2		9:59am	10:00am		10:10am	1:15pm
3						
4						
5						
6						
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19						
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21						
22						
23						
24						

Company: Renegy / Scott
Truck Number: 329
Driver Sig: [signature]
Date: 4/20/16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR
CALL IN #: 216-395-7415
PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 4/20/16 AM
Start Time: 7:00 A.M
End Time: 6:30 PM

Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	100Q-05-07	7.14 am	7.29 am	6000	7.42 am	7.54 am
2		8.08 am	8.19 am	6000	8.42 am	9.09 am
3		9.20 am	9.34 am	6000	9.47 am	9.58 am
4		10.10 am	10.28 am	6000	10.59 am	11.21 am
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Company: Seerat / Roopi
Truck Number: 777

Driver Sig: Roopi
Date: 4/20/16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR
CALL IN #: 216-395-7415
PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

LTP-001

Quasar Daily Effluent Route Log

5755 Granger Road Suite 320
Cleveland, OH 44131
216-986-9999

Date: 4/20/16 - AM
Start Time: 7:40 am
End Time: 11 am
Quasar Plant:

#	Field ID	Time In (Plant)	Time Out (Plant)	Gallons Hauled	Time In (Field)	Time Out (Field)
1	MOQ-05-07	8:00	8:30 am		9:00 am	9:15 am
2		9:45 am	10:00 am		10:15 am	10:30 am
3						
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23						
24						

Company: Seerat / Ranjit
Truck Number: 08
Driver Sig: [signature]
Date: 4/20/16

Plant Operator Sig:
Date:

Comments:

YOU ARE REQUIRED TO CALL IN THIS INFORMATION AND SUBMIT THIS LOG SHEET TO QUASAR
CALL IN #: 216-395-7415
PROVIDE: TOTAL HOURS, NUMBER OF LOADS, QUASAR FACILITY, FIELD I.D.

BROOKSIDE LABORATORIES, INC.

** MANURE ANALYSIS REPORT **

Ringler Energy
2279 County Rd 156
Cardington, OH 43315

File Number: 58251
Date Received:04/25/2016
Date Reported:04/27/2016

Submitted By: Brookside Consultants of Ohio, Inc.

Lab Number	3408			3409		
Description	L4 Etgen 4/18/16 MOQ-5-5			L4 Etgen 4/19/16 MOQ-5-7		
	% Dry Basis	% Wet Basis	lbs/ 1000gal	% Dry Basis	% Wet Basis	lbs/ 1000gal
Moisture		97.83	8195.7		98.04	8194.5
Mineral Matter	36.87	0.80	67.02	37.24	0.73	61.02
Lost By Ign (Org M+)	63.13	1.37	114.77	62.76	1.23	102.81
Total Nitrogen	11.06	0.240	20.11	12.14	0.238	19.89
Ammonium-N (NH4-N)	8.53	0.185	15.50	9.95	0.195	16.30
Nitrate-N (NO3-N)		0.010			< 0.010	
Organic-N	2.53	0.055	4.61	2.19	0.043	3.59
Phosphorus (P)	2.67	0.058	4.86	2.76	0.054	4.51
Phos. as (P205)	6.13	0.133	11.14	6.33	0.124	10.36
Potassium (K)	3.09	0.067	5.62	3.42	0.067	5.60
Potassium as (K20)	3.73	0.081	6.78	4.13	0.081	6.77

Reviewed by

Google earth

feet 1000

meters 400

MDQ-05-07

(0)

ED_014244_00000724-00023