

SampleNumber: AB17867

EventID: 14T001

LSite: GMW050-0023

County: Decatur

StreamName: Tributary of Salt Creek

LocationDescription: CR 150 N

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 2 | | | | | |
| Central Stoneroller | 26 | | | | | |
| Creek Chub | 44 | | | | | |
| Fantail Darter | 26 | | | | | |
| Johnny Darter | 13 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Rainbow Darter | 4 | | | | | |
| Silverjaw Minnow | 4 | | | | | |
| Striped Shiner | 4 | | | | | |
| Western Blacknose Dace | 10 | | | | | |
| White Sucker | 1 | | | | | |
| Yellow Bullhead | 1 | | | | | |

SampleNumber: AB17890

EventID: 14T002

LSite: GMW-05-0006

County: Decatur

StreamName: Salt Creek

LocationDescription: CR 50 N

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 43 | | | | | |
| Central Stoneroller | 48 | | | | | |
| Creek Chub | 64 | | | | | |
| Fantail Darter | 14 | | | | | |
| Johnny Darter | 41 | | | | | |
| Northern Hog Sucker | 1 | | | | | |
| Rainbow Darter | 20 | | | | | |
| Silverjaw Minnow | 7 | | | | | |
| Striped Shiner | 14 | | | | | |
| Western Blacknose Dace | 7 | | | | | |
| Yellow Bullhead | 16 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003050030 **LSite:** GMW-05-0014
Site: Righthand Fork Salt Creek **Location:** E CR 550 N **County:** Decatur
Latitude: 39.422252 **Longitude:** -85.320613 **IASNat Region:** 11C **Topo:** G-19 **Segment:** 88
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 2.223 **Gradient (ft/mile):** 18.228

Sample Information

SampleNumber: AB17863 **EventID:** 14T003 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/22/2014 **SurveyCrewChief:** KJC **SampleTime:** 12:40:00 PM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 5.68 **pH:** 7.72 **WaterTemp(°C):** 22.51 **SpecificConductivity (µS/cm):** 705 **Turbidity (NTU):** 3.98
SpecialNotes: some isolated pools

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 1 **DistanceFished (m):** 50
SecondsFished: 345 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .4 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Isolated pools

Habitat Information

TotalScore (max100): 54 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 6 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 10 **%Pool:** 60 **%Riffle:** 0 **%Run:** 40 **%Glide:** 0 **CanopyCover PctOpen:** 30%-<55%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 4 | 1 | %TolerantIndividuals: | 75 | 1 |
| Darter/Madtom/SculpinSpeciesCount: | 0 | 1 | %OmnivoreIndividuals: | 25 | 1 |
| %HeadwaterIndividuals: | 0 | 1 | %InsectivoreIndividuals: | 25 | 1 |
| MinnnowSpeciesCount: | 1 | 1 | %PioneerIndividuals: | 25 | 1 |
| SensitiveSpeciesCount: | 0 | 1 | Total # of Individuals (CPUE): | 4 | 1 |
| | | | %SimpleLithophilicInd.: | 25 | 1 |
| | | | %Ind.withDELT: | 0 | 1 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|----|
| Total IBI Score (min 0, max 60) | 12 |
|--|----|

SampleNumber: AB17863

EventID: 14T003

LSite: GMW-05-0014

County: Decatur

StreamName: Righthand Fork Salt Creek

LocationDescription: E CR 550 N

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|--------------------|------------------------------|--------------------|--------------------|----------------|---------------|---------------------------|
| Black Bullhead | 1 | | | | | |
| Creek Chub | 1 | | | | | |
| Largemouth Bass | 1 | | | | | |
| White Sucker | 1 | | | | | |

SampleNumber: AB17873

EventID: 14T004

LSite: GMW-05-0011

County: Franklin

StreamName: Righthand Fork Salt Creek

LocationDescription: Hamburg Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|------------------------------|--------------------|--------------------|----------------|---------------|---------------------------|
| Bluntnose Minnow | 72 | | | | | |
| Central Stoneroller | 49 | | | | | |
| Creek Chub | 37 | | | | | |
| Fantail Darter | 3 | | | | | |
| Greenside Darter | 7 | | | | | |
| Silverjaw Minnow | 1 | | | | | |
| Striped Shiner | 1 | | | | | |
| White Sucker | 4 | | | | | |
| Yellow Bullhead | 3 | | | | | |

SampleNumber: AB18792

EventID: 14T004.5

LSite: GMW-05-0011

County: Franklin

StreamName: Righthand Fork Salt Creek

LocationDescription: Hamburg Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 73 | | | | | |
| Central Stoneroller | 44 | | | | | |
| Creek Chub | 31 | | | | | |
| Fantail Darter | 9 | | | | | |
| Greenside Darter | 3 | | | | | |
| Johnny Darter | 1 | | | | | |
| Silverjaw Minnow | 1 | | | | | |
| White Sucker | 2 | | | | | |
| Yellow Bullhead | 2 | | | | | |



Site Information

SubBasin: Whitewater 14 digit HUC: 05080003050050 LSite: GMW-05-0009
 Site: Bull Fork Location: Bullfork Rd County: Franklin
 Latitude: 39.394734 Longitude: -85.253435 IASNat Region: 11C Topo: G-19 Segment: 88
 Ecoregion: Eastern Corn Belt Plains Drainage Area (sq.miles): 18.490 Gradient (ft/mile): 46.569

Sample Information

SampleNumber: AB17875 EventID: 14T005 Sample MediumCollected: Fish Community + Water + Macro
 SampleDate: 07/22/2014 SurveyCrewChief: KJC SampleTime: 11:20:00 AM HydroLabNumber: Q6
 WaterFlowType: Riffle WaterAppearance: Clear SkyConditions: 3 - Partly AirTemperature: 5 - 76-85
 WindDirection: 27 - West (270 degrees) WindStrength: 1 - Light
 DissolvedO2 (mg/l): 5 pH: 8.03 WaterTemp(°C): 21.56 SpecificConductivity (µS/cm): 454 Turbidity (NTU): 4.96
 SpecialNotes: Turbidity measured w/ hatch meter B1 in lab on 7/23

ElectrofishingEquipment: Backpack Voltage: 200 Avg.StreamWidth(m): 1 DistanceFished (m): 50
 SecondsFished: 475 WaterDepthAvg (m): .2 WaterDepthMax (m): .3 TimeAtSite: 01:30
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments: Probably will pool up during hot summer months

Habitat Information

TotalScore (max100): 67 SubstrateScore (max20): 20 InstreamCover Score (max20): 12 ChannelMorphologyScore (max20): 14
 RiparianZoneBankErosion Score(max10): 7 Pool/GlideQualityScore(max12): 4 Riffle/RunQualityScore(max8): 6
 GradientScore (max10): 4 %Pool: 10 %Riffle: 30 %Run: 60 %Glide: 0 CanopyCover PctOpen: 10%-<30%
 SubjectiveRating: AestheticRating: NOTES: "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | Actual Observation | Metric Score | | Actual Observation | Metric Score |
|------------------------------------|-----------------------|-----------------|--------------------------------|-----------------------|-----------------|
| SpeciesCount: | 14 | 5 | %TolerantIndividuals: | 25 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 7 | 5 | %OmnivoreIndividuals: | 3.13 | 5 |
| %HeadwaterIndividuals: | 38.28 | 5 | %InsectivoreIndividuals: | 72.66 | 5 |
| MinnnowSpeciesCount: | 5 | 3 | %PioneerIndividuals: | 25.78 | 3 |
| SensitiveSpeciesCount: | 5 | 5 | Total # of Individuals (CPUE): | 128 | 3 |
| | | | %SimpleLithophilicInd.: | 48.44 | 5 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|---------------------------------|----|
| Total IBI Score (min 0, max 60) | 52 |
|---------------------------------|----|

SampleNumber: AB17875

EventID: 14T005

LSite: GMW-05-0009

County: Franklin

StreamName: Bull Fork

LocationDescription: Bullfork Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 1 | | | | | |
| Bluntnose Minnow | 2 | | | | | |
| Central Stoneroller | 22 | | | | | |
| Creek Chub | 8 | | | | | |
| Fantail Darter | 21 | | | | | |
| Greenside Darter | 1 | | | | | |
| Johnny Darter | 1 | | | | | |
| Mottled Sculpin | 8 | | | | | |
| Rainbow Darter | 22 | | | | | |
| Rock Bass | 1 | | | | | |
| Stonecat | 1 | | | | | |
| Striped Shiner | 18 | | | | | |
| Western Blacknose Dace | 20 | | | | | |
| White Sucker | 2 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater 14 digit HUC: 05080003050030 LSite: GMW-05-0007
 Site: Salt Creek Location: Rail Fence Rd County: Franklin
 Latitude: 39.384362 Longitude: -85.218365 IASNat Region: 11C Topo: G-20 Segment: 88
 Ecoregion: Interior Plateau Drainage Area (sq.miles): 45.720 Gradient (ft/mile): 9.569

Sample Information

SampleNumber: AB17860 EventID: 14T006 Sample MediumCollected: Fish Community + Water + Macro
 SampleDate: 07/21/2014 SurveyCrewChief: KJC SampleTime: 03:15:00 PM HydroLabNumber: Q6
 WaterFlowType: Run WaterAppearance: Clear SkyConditions: 3 - Partly AirTemperature: 5 - 76-85
 WindDirection: 27 - West (270 degrees) WindStrength: 1 - Light
 DissolvedO2 (mg/l): 6.52 pH: 8.15 WaterTemp(°C): 26.42 SpecificConductivity (µS/cm): 381 Turbidity (NTU): 8.38
 SpecialNotes:

ElectrofishingEquipment: Longline Voltage: 200 Avg.StreamWidth(m): 10 DistanceFished (m): 150
 SecondsFished: 880 WaterDepthAvg (m): .3 WaterDepthMax (m): .7 TimeAtSite: 02:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments:

Habitat Information

TotalScore (max100): 68 SubstrateScore (max20): 18 InstreamCover Score (max20): 11 ChannelMorphologyScore (max20): 14
 RiparianZoneBankErosion Score(max10): 6 Pool/GlideQualityScore(max12): 5 Riffle/RunQualityScore(max8): 4
 GradientScore (max10): 10 %Pool: 20 %Riffle: 10 %Run: 70 %Glide: 0 CanopyCover PctOpen: 55%<-85%
 SubjectiveRating: AestheticRating: NOTES: "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior Plateau

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 18 | 5 | %TolerantIndividuals: | 8.91 5 |
| DarterSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 8.53 5 |
| SunfishSpeciesCount: | 3 | 3 | %InsectivoreIndividuals: | 62.4 5 |
| SuckerSpeciesCount: | 4 | 5 | %CarnivoreIndividuals: | 4.65 3 |
| SensitiveSpeciesCount: | 10 | 5 | Total # of Individuals (CPUE): | 258 3 |
| | | | %SimpleLithophilicInd.: | 28.68 3 |
| | | | %Ind.withDELT: | 0 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|---------------------------------|----|
| Total IBI Score (min 0, max 60) | 52 |
|---------------------------------|----|

SampleNumber: AB17860

EventID: 14T006

LSite: GMW-05-0007

County: Franklin

StreamName: Salt Creek

LocationDescription: Rail Fence Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 4 | | | | | |
| Black Redhorse | 3 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 21 | | | | | |
| Central Stoneroller | 63 | | | | | |
| Fantail Darter | 22 | | | | | |
| Golden Redhorse | 2 | | | | | |
| Greenside Darter | 21 | | | | | |
| Johnny Darter | 1 | | | | | |
| Longear Sunfish | 33 | | | | | |
| Northern Hog Sucker | 8 | | | | | |
| Rainbow Darter | 42 | | | | | |
| Rock Bass | 9 | | | | | |
| Sand Shiner | 5 | | | | | |
| Smallmouth Bass | 3 | | | | | |
| Striped Shiner | 18 | | | | | |
| White Sucker | 1 | | | | | |
| Yellow Bullhead | 1 | | | | | |



**Indiana Department of Environmental Management
Fish Community Assessments**

Site Information

SubBasin: Whitewater 14 digit HUC: 05080003050040 LSite: GMW-05-0012
 Site: Harvey Branch Location: Rail Fence Rd County: Franklin
 Latitude: 39.384461 Longitude: -85.216535 IASNat Region: 11C Topo: G-20 Segment: 88
 Ecoregion: Interior Plateau Drainage Area (sq.miles): 8.861 Gradient (ft/mile): 27.537

Sample Information

SampleNumber: AB17870 EventID: 14T007 Sample MediumCollected: Fish Community + Water + Macro
 SampleDate: 07/22/2014 SurveyCrewChief: KJC SampleTime: 09:25:00 AM HydroLabNumber: Q6
 WaterFlowType: Pool WaterAppearance: Clear SkyConditions: 1 - Clear AirTemperature: 5 - 76-85
 WindDirection: 27 - West (270 degrees) WindStrength: 0 - Calm
 DissolvedO2 (mg/l): 4.67 pH: 7.91 WaterTemp(°C): 21.09 SpecificConductivity (µS/cm): 511 Turbidity (NTU): 19.9
 SpecialNotes: ALMOST POOLED; INTERSTITIAL FLOW FARTHER UPSTREAM

ElectrofishingEquipment: Backpack Voltage: 200 Avg.StreamWidth(m): 3 DistanceFished (m): 50
 SecondsFished: 654 WaterDepthAvg (m): .3 WaterDepthMax (m): .4 TimeAtSite: 02:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments:

Habitat Information

TotalScore (max100): 61 SubstrateScore (max20): 19 InstreamCover Score (max20): 11 ChannelMorphologyScore (max20): 11
 RiparianZoneBankErosion Score(max10): 7 Pool/GlideQualityScore(max12): 3 Riffle/RunQualityScore(max8): 0
 GradientScore (max10): 10 %Pool: 10/0 %Riffle: 0 %Run: 0 %Glide: 0 CanopyCover PctOpen: >85%-Open
 SubjectiveRating: AestheticRating: NOTES: "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior Plateau

| | Actual Observation | Metric Score | | Actual Observation | Metric Score |
|------------------------------------|-----------------------|-----------------|--------------------------------|-----------------------|-----------------|
| SpeciesCount: | 17 | 5 | %TolerantIndividuals: | 24.44 | 5 |
| Darter/Madtom/SculpinSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 13.91 | 5 |
| %HeadwaterIndividuals: | 17.29 | 3 | %InsectivoreIndividuals: | 48.87 | 3 |
| MinnnowSpeciesCount: | 6 | 3 | %PioneerIndividuals: | 57.14 | 1 |
| SensitiveSpeciesCount: | 5 | 5 | Total # of Individuals (CPUE): | 266 | 3 |
| | | | %SimpleLithophilicInd.: | 15.41 | 1 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|---------------------------------|----|
| Total IBI Score (min 0, max 60) | 44 |
|---------------------------------|----|

SampleNumber: AB17870

EventID: 14T007

LSite: GMW-05-0012

County: Franklin

StreamName: Harvey Branch

LocationDescription: Rail Fence Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 30 | | | | | |
| Central Stoneroller | 79 | | | | | |
| Creek Chub | 18 | | | | | |
| Fantail Darter | 43 | | | | | |
| Green Sunfish | 5 | | | | | |
| Greenside Darter | 11 | | | | | |
| Johnny Darter | 18 | | | | | |
| Longear Sunfish | 11 | | | | | |
| Rainbow Darter | 15 | | | | | |
| Rock Bass | 2 | | | | | |
| Silverjaw Minnow | 2 | | | | | |
| Stonecat | 3 | | | | | |
| Striped Shiner | 16 | | | | | |
| Western Blacknose Dace | 3 | | | | | |
| White Sucker | 7 | | | | | |
| Yellow Bullhead | 2 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003050070 **LSite:** GMW-05-0015
Site: S Fk Little Salt Cr **Location:** Chapel Rd **County:** Franklin
Latitude: 39.466287 **Longitude:** -85.277402 **IASNat Region:** 11C **Topo:** G-19 **Segment:** 88
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 6.328 **Gradient (ft/mile):** 23.582

Sample Information

SampleNumber: AB17862 **EventID:** 14T008 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/22/2014 **SurveyCrewChief:** KJC **SampleTime:** 02:00:00 PM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 2 - Mod./Light
DissolvedO2 (mg/l): 5.39 **pH:** 8.06 **WaterTemp(°C):** 21.13 **SpecificConductivity (µS/cm):** 554 **Turbidity (NTU):** 3.07
SpecialNotes: SOME ISOLATED POOLING

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 711 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .4 **TimeAtSite:** 03:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 66 **SubstrateScore (max20):** 16 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 6 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 10 **%Pool:** 70 **%Riffle:** 10 **%Run:** 20 **%Glide:** 0 **CanopyCover PctOpen:** 10%-<30%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 14 | 5 | %TolerantIndividuals: | 33.57 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 4 | 5 | %OmnivoreIndividuals: | 6.99 | 5 |
| %HeadwaterIndividuals: | 18.88 | 3 | %InsectivoreIndividuals: | 31.47 | 3 |
| MinnnowSpeciesCount: | 7 | 5 | %PioneerIndividuals: | 69.23 | 1 |
| SensitiveSpeciesCount: | 2 | 3 | Total # of Individuals (CPUE): | 143 | 3 |
| | | | %SimpleLithophilicInd.: | 25.17 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 44 |
|--|-----------|

SampleNumber: AB17862

EventID: 14T008

LSite: GMW-05-0015

County: Franklin

StreamName: S Fk Little Salt Cr

LocationDescription: Chapel Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 9 | | | | | |
| Central Stoneroller | 70 | | | | | |
| Creek Chub | 15 | | | | | |
| Fantail Darter | 3 | | | | | |
| Green Sunfish | 4 | | | | | |
| Greenside Darter | 1 | | | | | |
| Mottled Sculpin | 3 | | | | | |
| Rainbow Darter | 5 | | | | | |
| Silverjaw Minnow | 1 | | | | | |
| Southern Redbelly Dace | 3 | | | | | |
| Striped Shiner | 9 | | | | | |
| Western Blacknose Dace | 18 | | | | | |
| White Sucker | 1 | | | | | |
| Yellow Bullhead | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003050070 **LSite:** GMW-05-0008
Site: Little Salt Creek **Location:** Stipps Hill Rd **County:** Franklin
Latitude: 39.437367 **Longitude:** -85.195433 **IASNat Region:** 11C **Topo:** G-20 **Segment:** 88
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 25.073 **Gradient (ft/mile):** 28.151

Sample Information

SampleNumber: AB17889 **EventID:** 14T009 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/22/2014 **SurveyCrewChief:** KJC **SampleTime:** 03:35:00 PM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 2 - Mod./Light
DissolvedO2 (mg/l): 7.09 **pH:** 7.83 **WaterTemp(°C):** 26.6 **SpecificConductivity (µS/cm):** 499 **Turbidity (NTU):** 1.75
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 281 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .3 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 53.1% catch Central Stoneroller

Habitat Information

TotalScore (max100): 61 **SubstrateScore (max20):** 17 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 14
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 8 **%Pool:** 20 **%Riffle:** 10 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior Plateau

| | <u>Actual Observation</u> | <u>Metric Score</u> | | <u>Actual Observation</u> | <u>Metric Score</u> |
|------------------------|-------------------------------|-------------------------|--------------------------------|-------------------------------|-------------------------|
| SpeciesCount: | 13 | 3 | %TolerantIndividuals: | 12.79 | 5 |
| DarterSpeciesCount: | 3 | 3 | %OmnivoreIndividuals: | 5.43 | 5 |
| SunfishSpeciesCount: | 1 | 1 | %InsectivoreIndividuals: | 39.15 | 3 |
| SuckerSpeciesCount: | 2 | 3 | %CarnivoreIndividuals: | 0.78 | 1 |
| SensitiveSpeciesCount: | 5 | 3 | Total # of Individuals (CPUE): | 258 | 3 |
| | | | %SimpleLithophilicInd.: | 16.67 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and
 Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending
 on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 38 |
|--|-----------|

SampleNumber: AB17889

EventID: 14T009

LSite: GMW-05-0008

County: Franklin

StreamName: Little Salt Creek

LocationDescription: Stipps Hill Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 13 | | | | | |
| Central Stoneroller | 137 | | | | | |
| Creek Chub | 4 | | | | | |
| Fantail Darter | 10 | | | | | |
| Greenside Darter | 2 | | | | | |
| Mottled Sculpin | 41 | | | | | |
| Northern Hog Sucker | 1 | | | | | |
| Rainbow Darter | 16 | | | | | |
| Rock Bass | 2 | | | | | |
| Sand Shiner | 6 | | | | | |
| Striped Shiner | 10 | | | | | |
| Western Blacknose Dace | 15 | | | | | |
| White Sucker | 1 | | | | | |

SampleNumber: AB17874

EventID: 14T010

LSite: GMW-05-0010

County: Franklin

StreamName: Salt Creek

LocationDescription: SR 229

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 4 | | | | | |
| Black Redhorse | 1 | | | | | |
| Bluegill | 5 | | | | | |
| Bluntnose Minnow | 31 | | | | | |
| Brindled Madtom | 1 | | | | | |
| Central Stoneroller | 3 | | | | | |
| Fantail Darter | 2 | | | | | |
| Golden Redhorse | 3 | | | | | |
| Green Sunfish | 3 | | | | | |
| Greenside Darter | 2 | | | | | |
| Johnny Darter | 13 | | | | | |
| Largemouth Bass | 3 | | | | | |
| Longear Sunfish | 20 | | | | | |
| Northern Hog Sucker | 1 | | | | | |
| Orangethroat Darter | 2 | | | | | |
| Rock Bass | 3 | | | | | |
| Sand Shiner | 2 | | | | | |
| Silverjaw Minnow | 3 | | | | | |
| Spotfin Shiner | 4 | | | | | |
| Stonecat | 1 | | | | | |
| Striped Shiner | 2 | | | | | |
| White Sucker | 2 | | | | | |
| Yellow Bullhead | 10 | | | | | |

SampleNumber: AB17888

EventID: 14T011

LSite: GMW-04-0018

County: Franklin

StreamName: Whitewater River

LocationDescription: US 52

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 17 | | | | | |
| Black Redhorse | 36 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 4 | | | | | |
| Central Stoneroller | 20 | | | | | |
| Channel Catfish | 1 | | | | | |
| Common Carp | 1 | | | | | |
| Creek Chub | 2 | | | | | |
| Fantail Darter | 4 | | | | | |
| Freshwater Drum | 1 | 1 | | | | |
| Golden Redhorse | 51 | | | | | |
| Gravel Chub | 10 | | | | | |
| Greenside Darter | 5 | | | | | |
| Highfin Carpsucker | 3 | | | | | |
| Logperch | 3 | | | | | |
| Longear Sunfish | 13 | | | | | |
| Longnose Gar | 1 | | | | | |
| Mottled Sculpin | 5 | | | | | |
| Northern Hog Sucker | 54 | | | 1 | | |
| Rainbow Darter | 5 | | | | | |
| River Carpsucker | 5 | | | | | |
| Rock Bass | 5 | | | | | |
| Rosyface Shiner | 9 | | | | | |
| Sand Shiner | 87 | | | | | |
| Shorthead Redhorse | 4 | | | | | |
| Silver Redhorse | 1 | | | | | |
| Silver Shiner | 10 | | | | | |
| Silverjaw Minnow | 5 | | | | | |
| Smallmouth Bass | 10 | | | 1 | | |
| Spotfin Shiner | 63 | | | | | |
| Steelcolor Shiner | 6 | | | | | |
| Striped Shiner | 3 | | | | | |
| White Sucker | 1 | | | | | |

SampleNumber: AB17859

EventID: 14T013

LSite: GMW-06-0022

County: Franklin

StreamName: Whitewater Canal

LocationDescription: Park Ave

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 5 | | | | | |
| Creek Chub | 3 | | | | 1 | |
| Gizzard Shad | 1 | | | | | |
| Green Sunfish | 4 | | | | | |
| Striped Shiner | 2 | | | | | |
| White Sucker | 1 | | | | | |

SampleNumber: AB18794

EventID: 14T013.5

LSite: GMW-06-0022

County: Franklin

StreamName: Whitewater Canal

LocationDescription: Park Ave

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|--------------------|------------------------------|--------------------|--------------------|----------------|---------------|---------------------------|
| Bluntnose Minnow | 3 | | | | | |
| Creek Chub | 3 | | | | | |
| Green Sunfish | 2 | | | | | |
| Scarlet Shiner | 1 | | | | | |
| Spotfin Shiner | 5 | | | | | |
| White Sucker | 2 | | | | | |
| Yellow Bullhead | 1 | | | | | |

SampleNumber: AB17886

EventID: 14T014

LSite: GMW-06-0015

County: Franklin

StreamName: Pipe Creek

LocationDescription: Silver Creek Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Black Redhorse | 11 | | | | | |
| Bluegill | 5 | | | | | |
| Bluntnose Minnow | 6 | | | | | |
| Channel Catfish | 1 | | | | | |
| Common Carp | 6 | | | | | |
| Gizzard Shad | 4 | | | | | |
| Golden Redhorse | 8 | | | | | |
| Green Sunfish | 6 | | | | | |
| Greenside Darter | 1 | | | | | |
| Highfin Carpsucker | 3 | | | | | |
| Johnny Darter | 6 | | | | | |
| Logperch | 2 | | | | | |
| Longear Sunfish | 18 | | | | | |
| Northern Hog Sucker | 3 | | | | | |
| River Carpsucker | 6 | | | | | |
| Silver Redhorse | 3 | | | | | |
| Silverjaw Minnow | 2 | | | | | |
| Spotfin Shiner | 2 | | | | | |
| Spotted Bass | 5 | | | | | |
| Spotted Sucker | 1 | | | | | |
| Striped Shiner | 7 | | | | | |

SampleNumber: AB17869

EventID: 14T015

LSite: GMW-06-0013

County: Franklin

StreamName: Clear Fork

LocationDescription: Schwegman Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 22 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 20 | | | | | |
| Central Stoneroller | 352 | | | | | |
| Creek Chub | 107 | | | | | |
| Fantail Darter | 28 | | | | | |
| Greenside Darter | 7 | | | | | |
| Johnny Darter | 22 | | | | | |
| Northern Hog Sucker | 3 | | | | | |
| Orangethroat Darter | 9 | | | | | |
| Rainbow Darter | 15 | | | | | |
| Sand Shiner | 8 | | | | | |
| Silverjaw Minnow | 5 | | | | | |
| Striped Shiner | 2 | 1 | | | | |
| Western Blacknose Dace | 90 | | | | | |
| White Sucker | 30 | | | | | |

SampleNumber: AB17865

EventID: 14T016

LSite: GMW-06-0020

County: Franklin

StreamName: Pipe Creek

LocationDescription: St Marys Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 23 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 21 | | | | | |
| Central Stoneroller | 138 | | | | | |
| Creek Chub | 39 | | | | | |
| Fantail Darter | 14 | | | | | |
| Greenside Darter | 9 | | | | | |
| Johnny Darter | 43 | | | | | |
| Longear Sunfish | 3 | | | | | |
| Northern Hog Sucker | 18 | | | | | |
| Orangethroat Darter | 8 | | | | | |
| Rainbow Darter | 16 | | | | | |
| Rock Bass | 7 | | | | | |
| Silverjaw Minnow | 10 | | | | | |
| Spotted Bass | 1 | | | | | |
| Striped Shiner | 60 | | | | | |
| Western Blacknose Dace | 14 | | | | | |
| White Sucker | 35 | | | | | |
| Yellow Bullhead | 2 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003060030 **LSite:** GMW-06-0014
Site: Tributary of Pipe Creek **Location:** St Marys Rd **County:** Ripley
Latitude: 39.299046 **Longitude:** -85.104298 **IASNat Region:** 11C **Topo:** G-44 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 12.826 **Gradient (ft/mile):** 6.753

Sample Information

SampleNumber: AB17887 **EventID:** 14T017 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/23/2014 **SurveyCrewChief:** KJC **SampleTime:** 09:50:00 AM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 4 - Cloudy **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 2.76 **pH:** 7.6 **WaterTemp(°C):** 21.99 **SpecificConductivity (µS/cm):** 480 **Turbidity (NTU):** 14.6
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 566 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .8 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Water a little turbid due to morning rain

Habitat Information

TotalScore (max100): 61 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 13 **ChannelMorphologyScore (max20):** 12
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 7 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 10 **%Pool:** 30 **%Riffle:** 0 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** 10%-<30%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 13 | 5 | %TolerantIndividuals: | 46.43 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 3 | 3 | %OmnivoreIndividuals: | 27.14 | 3 |
| %HeadwaterIndividuals: | 7.86 | 1 | %InsectivoreIndividuals: | 55 | 5 |
| MinnnowSpeciesCount: | 5 | 3 | %PioneerIndividuals: | 60.71 | 1 |
| SensitiveSpeciesCount: | 2 | 1 | Total # of Individuals (CPUE): | 140 | 3 |
| | | | %SimpleLithophilicInd.: | 27.14 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|----|
| Total IBI Score (min 0, max 60) | 36 |
|--|----|

SampleNumber: AB17887

EventID: 14T017

LSite: GMW-06-0014

County: Ripley

StreamName: Tributary of Pipe Creek

LocationDescription: St Marys Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 13 | | | | | |
| Central Stoneroller | 1 | | | | | |
| Creek Chub | 20 | | | | | |
| Fantail Darter | 11 | | | | | |
| Green Sunfish | 6 | | | | | |
| Johnny Darter | 42 | | | | | |
| Largemouth Bass | 4 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Rainbow Darter | 7 | | | | | |
| Silverjaw Minnow | 3 | | | | | |
| Striped Shiner | 6 | | | | | |
| White Sucker | 25 | | | | | |
| Yellow Bullhead | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003060030 **LSite:** GMW-06-0014
Site: Tributary of Pipe Creek **Location:** St Marys Rd **County:** Ripley
Latitude: 39.299046 **Longitude:** -85.104298 **IASNat Region:** 11C **Topo:** G-44 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 12.826 **Gradient (ft/mile):** 6.753

Sample Information

SampleNumber: AB18793 **EventID:** 14T017.5 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/27/2014 **SurveyCrewChief:** KJC **SampleTime:** 12:07:00 PM **HydroLabNumber:** Q4
WaterFlowType: Pool **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 1.91 **pH:** 7.64 **WaterTemp(°C):** 23.98 **SpecificConductivity (µS/cm):** 420 **Turbidity (NTU):** 7.36
SpecialNotes: ISOLATED POOLS; LOWER THAN 1ST SAMPLE

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 473 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .8 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Isolated pools; low DO

Habitat Information

TotalScore (max100): 63 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 7 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 10 **%Pool:** 50 **%Riffle:** 0 **%Run:** 50 **%Glide:** 0 **CanopyCover PctOpen:** 10%-<30%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 12 | 3 | %TolerantIndividuals: | 67.33 | 1 |
| Darter/Madtom/SculpinSpeciesCount: | 3 | 3 | %OmnivoreIndividuals: | 45.33 | 3 |
| %HeadwaterIndividuals: | 0 | 1 | %InsectivoreIndividuals: | 34.67 | 3 |
| MinnnowSpeciesCount: | 4 | 3 | %PioneerIndividuals: | 57.33 | 1 |
| SensitiveSpeciesCount: | 2 | 1 | Total # of Individuals (CPUE): | 150 | 3 |
| | | | %SimpleLithophilicInd.: | 39.33 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|----|
| Total IBI Score (min 0, max 60) | 30 |
|--|----|

SampleNumber: AB18793

EventID: 14T017.5

LSite: GMW-06-0014

County: Ripley

StreamName: Tributary of Pipe Creek

LocationDescription: St Marys Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 1 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 13 | | | | | |
| Creek Chub | 26 | | | | | |
| Green Sunfish | 7 | | | | | |
| Johnny Darter | 37 | | | | | |
| Largemouth Bass | 4 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Orangethroat Darter | 2 | | | | | |
| Silverjaw Minnow | 1 | | | | | |
| Striped Shiner | 2 | | | | | |
| White Sucker | 55 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003060030 **LSite:** GMW060-0027
Site: Pipe Creek **Location:** Pipe Creek Rd **County:** Ripley
Latitude: 39.295638 **Longitude:** -85.099595 **IASNat Region:** 11B **Topo:** G-44 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 8.666 **Gradient (ft/mile):** 5.821

Sample Information

SampleNumber: AB17861 **EventID:** 14T018 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 08/04/2014 **SurveyCrewChief:** KJC **SampleTime:** 10:15:00 AM **HydroLabNumber:** Q4
WaterFlowType: Pool **WaterAppearance:** Murky **SkyConditions:** 3 - Partly **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 2.84 **pH:** 7.71 **WaterTemp(°C):** 17.93 **SpecificConductivity (µS/cm):** 403 **Turbidity (NTU):** 9.61
SpecialNotes: Q4 Turbidity = 64.7; DO taken again at 11:30 w/Q4 = 3.3 mg/L

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 416 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .3 **TimeAtSite:** 01:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 50 **SubstrateScore (max20):** 12 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 3 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 6 **%Pool:** 30 **%Riffle:** 0 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** 10%-<30%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 12 | 5 | %TolerantIndividuals: | 49.25 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 4 | 5 | %OmnivoreIndividuals: | 13.43 | 5 |
| %HeadwaterIndividuals: | 3.36 | 1 | %InsectivoreIndividuals: | 48.88 | 3 |
| MinnnowSpeciesCount: | 5 | 3 | %PioneerIndividuals: | 77.24 | 1 |
| SensitiveSpeciesCount: | 1 | 1 | Total # of Individuals (CPUE): | 268 | 5 |
| | | | %SimpleLithophilicInd.: | 19.4 | 1 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 38 |
|--|-----------|

SampleNumber: AB17861

EventID: 14T018

LSite: GMW060-0027

County: Ripley

StreamName: Pipe Creek

LocationDescription: Pipe Creek Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 3 | | | | | |
| Central Stoneroller | 1 | | | | | |
| Creek Chub | 95 | | | | | |
| Fantail Darter | 9 | | | | | |
| Johnny Darter | 98 | | | | | |
| Orangethroat Darter | 6 | | | | | |
| Rainbow Darter | 10 | | | | | |
| Silverjaw Minnow | 4 | | | | | |
| Spotted Bass | 5 | | | | | |
| Striped Shiner | 3 | | | | | |
| White Sucker | 33 | | | | | |
| Yellow Bullhead | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003060080 **LSite:** GMW-06-0012
Site: Whitewater River **Location:** St Marys Rd **County:** Franklin
Latitude: 39.421071 **Longitude:** -85.015235 **IASNat Region:** 11C **Topo:** G-21 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 841.440 **Gradient (ft/mile):** 6.677

Sample Information

SampleNumber: AB17866 **EventID:** 14T019 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 08/20/2014 **SurveyCrewChief:** KAG **SampleTime:** 10:40:00 AM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.11 **pH:** 8.1 **WaterTemp(°C):** 22.83 **SpecificConductivity (µS/cm):** 540 **Turbidity (NTU):** 12.3
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 400 **Avg.StreamWidth(m):** 46 **DistanceFished (m):** 500
SecondsFished: 3600 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1.5 **TimeAtSite:** 05:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 69 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 12 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 0 **%Riffle:** 40 **%Run:** 60 **%Glide:** 0 **CanopyCover PctOpen:** 55%<-85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 36 | 5 | %TolerantIndividuals: | 13.69 | 5 |
| DarterSpeciesCount: | 6 | 5 | %OmnivoreIndividuals: | 11.44 | 5 |
| SunfishSpeciesCount: | 4 | 5 | %InsectivoreIndividuals: | 67.64 | 5 |
| SuckerSpeciesCount: | 5 | 5 | %CarnivoreIndividuals: | 4.79 | 1 |
| SensitiveSpeciesCount: | 16 | 5 | Total # of Individuals (CPUE): | 1023 | 5 |
| | | | %SimpleLithophilicInd.: | 33.72 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 54 |
|--|-----------|

SampleNumber: AB17866

EventID: 14T019

LSite: GMW-06-0012

County: Franklin

StreamName: Whitewater River

LocationDescription: St Marys Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|----------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 70 | | | | | |
| Black Redhorse | 29 | | | | | |
| Bluegill | 23 | | | | | |
| Bluntnose Minnow | 63 | | | | | |
| Central Stoneroller | 157 | | | | | |
| Channel Catfish | 3 | | | | | |
| Creek Chub | 8 | | | | | |
| Emerald Shiner | 4 | | | | | |
| Gizzard Shad | 43 | | | | | |
| Golden Redhorse | 29 | | | | | |
| Gravel Chub | 20 | | | | | |
| Green Sunfish | 8 | | | | | |
| Greenside Darter | 24 | | | | | |
| Johnny Darter | 2 | | | | | |
| Logperch | 12 | | | | | |
| Longear Sunfish | 65 | | | | | |
| Longnose Gar | 2 | | | | | |
| Mottled Sculpin | 3 | | | | | |
| Northern Hog Sucker | 70 | | | | | |
| Orangethroat Darter | 3 | | | | | |
| Rainbow Darter | 20 | | | | | |
| River Carpsucker | 11 | | | | | |
| Rock Bass | 25 | | | | | |
| Rosyface Shiner | 56 | | | | | |
| Sand Shiner | 41 | | | | | |
| Shorthead Redhorse | 5 | | | | | |
| Silver Shiner | 97 | | | | | |
| Silverjaw Minnow | 9 | | | | | |
| Smallmouth Bass | 14 | | | | | |
| Spotfin Shiner | 88 | | | | | |
| Spotted Bass | 5 | | | | | |
| Steelcolor Shiner | 4 | | | | | |
| Stonecat | 3 | | | | | |
| Striped Shiner | 4 | | | | | |
| Western Mosquitofish | 1 | | | | | |
| Yellow Bullhead | 2 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003070180 **LSite:** GMW-07-0026
Site: East Fork Whitewater River **Location:** US 52 **County:** Franklin
Latitude: 39.412372 **Longitude:** -85.010942 **IASNat Region:** 11C **Topo:** G-21 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 382.330 **Gradient (ft/mile):** 17.544

Sample Information

SampleNumber: AB17885 **EventID:** 14T020 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/22/2014 **SurveyCrewChief:** KAG **SampleTime:** 10:00:00 AM **HydroLabNumber:** Q2
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 9.57 **pH:** 7.93 **WaterTemp(°C):** 14.85 **SpecificConductivity (µS/cm):** 473 **Turbidity (NTU):** 1.76
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 400 **Avg.StreamWidth(m):** 30 **DistanceFished (m):** 450
SecondsFished: 3600 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1.2 **TimeAtSite:** 04:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Shock time estimated.; 72.15% catch Mottled Sculpin

Habitat Information

TotalScore (max100): 70 **SubstrateScore (max20):** 18 **InstreamCover Score (max20):** 13 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 7
GradientScore (max10): 6 **%Pool:** 10 **%Riffle:** 30 **%Run:** 60 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 17 | 3 | %TolerantIndividuals: | 7.72 | 5 |
| DarterSpeciesCount: | 3 | 3 | %OmnivoreIndividuals: | 7.38 | 5 |
| SunfishSpeciesCount: | 3 | 3 | %InsectivoreIndividuals: | 85.23 | 5 |
| SuckerSpeciesCount: | 6 | 5 | %CarnivoreIndividuals: | 2.68 | 1 |
| SensitiveSpeciesCount: | 11 | 5 | Total # of Individuals (CPUE): | 298 | 3 |
| | | | %SimpleLithophilicInd.: | 16.78 | 1 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 44 |
|--|-----------|

SampleNumber: AB17885

EventID: 14T020

LSite: GMW-07-0026

County: Franklin

StreamName: East Fork Whitewater River

LocationDescription: US 52

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Black Redhorse | 9 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 4 | | | | | |
| Central Stoneroller | 11 | | | | | |
| Creek Chub | 1 | | | | | |
| Golden Redhorse | 1 | | | | | |
| Greenside Darter | 5 | | | | | |
| Logperch | 1 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Mottled Sculpin | 215 | | | | | |
| Northern Hog Sucker | 12 | | | | | |
| Rainbow Darter | 1 | | | | | |
| Rock Bass | 5 | | | | | |
| Shorthead Redhorse | 8 | | | | | |
| Smallmouth Bass | 3 | | | | | |
| Smallmouth Redhorse | 2 | | | | | |
| White Sucker | 18 | | | | | |

SampleNumber: AB17872

EventID: 14T021

LSite: GMW-08-0026

County: Franklin

StreamName: Wolf Creek

LocationDescription: Blue Creek Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 23 | | | | | |
| Bluntnose Minnow | 32 | | | | | |
| Central Stoneroller | 121 | | | | | |
| Creek Chub | 155 | | | | | |
| Fantail Darter | 2 | | | | | |
| Green Sunfish | 1 | | | | | |
| Greenside Darter | 2 | | | | | |
| Johnny Darter | 25 | | | | | |
| Mottled Sculpin | 9 | | | | | |
| Northern Hog Sucker | 10 | | | | | |
| Orangethroat Darter | 3 | | | | | |
| Rainbow Darter | 3 | | | | | |
| Sand Shiner | 2 | | | | | |
| Western Blacknose Dace | 11 | | | | | |
| White Sucker | 20 | | | | | |

SampleNumber: AB17891

EventID: 14T022

LSite: GMW080-0003

County: Franklin

StreamName: Blue Creek

LocationDescription: Highland Center Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 3 | | | | | |
| Bluegill | 6 | | | | | |
| Bluntnose Minnow | 45 | | | | | |
| Central Stoneroller | 1 | | | | | |
| Emerald Shiner | 2 | | | | | |
| Fantail Darter | 2 | | | | | |
| Gizzard Shad | 14 | | | | | |
| Golden Redhorse | 10 | | | | | |
| Green Sunfish | 5 | | | | | |
| Johnny Darter | 4 | | | | | |
| Logperch | 2 | | | | | |
| Longear Sunfish | 28 | | | | | |
| Rock Bass | 7 | | | | | |
| Rosyface Shiner | 14 | | | | | |
| Sand Shiner | 4 | | | | | |
| Smallmouth Bass | 4 | | | | | |
| Spotfin Shiner | 1 | | | | | |
| Spotted Bass | 3 | | | | | |
| Yellow Bullhead | 3 | | | | | |

SampleNumber: AB17884

EventID: 14T023

LSite: GMW-08-0014

County: Franklin

StreamName: Blue Creek

LocationDescription: Blue Creek Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 24 | | | | | |
| Bluntnose Minnow | 12 | | | | | |
| Central Stoneroller | 153 | | | | | |
| Creek Chub | 31 | | | | | |
| Fantail Darter | 5 | | | | | |
| Johnny Darter | 3 | | | | | |
| Orangethroat Darter | 38 | | | | | |
| Rainbow Darter | 26 | | | | | |
| Rosyface Shiner | 3 | | | | | |
| Slenderhead Darter | 4 | | | | | |
| Western Blacknose Dace | 27 | | | | | |
| White Sucker | 7 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080020 **LSite:** GMW-08-0022
Site: East Fork Blue Creek **Location:** Blue Creek Rd **County:** Franklin
Latitude: 39.344938 **Longitude:** -85.031633 **IASNat Region:** 11C **Topo:** G-44 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 8.512 **Gradient (ft/mile):** 55.484

Sample Information

SampleNumber: AB17877 **EventID:** 14T024 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/29/2014 **SurveyCrewChief:** KAG **SampleTime:** 09:40:00 AM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 7.8 **pH:** 7.86 **WaterTemp(°C):** 16.82 **SpecificConductivity (µS/cm):** 545 **Turbidity (NTU):** 4.16
SpecialNotes: Q6 TURB = 8.8

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 467 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .4 **TimeAtSite:** 02:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 66.21% catch Central Stoneroller

Habitat Information

TotalScore (max100): 64 **SubstrateScore (max20):** 17 **InstreamCover Score (max20):** 9 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 9 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 4 **%Pool:** 20 **%Riffle:** 40 **%Run:** 40 **%Glide:** 0 **CanopyCover PctOpen:** 55%-<85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior Plateau

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 13 | 5 | %TolerantIndividuals: | 25.71 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 9.07 | 5 |
| %HeadwaterIndividuals: | 8.57 | 1 | %InsectivoreIndividuals: | 15.71 | 1 |
| MinnnowSpeciesCount: | 4 | 3 | %PioneerIndividuals: | 78.57 | 1 |
| SensitiveSpeciesCount: | 4 | 3 | Total # of Individuals (CPUE): | 1610 | 5 |
| | | | %SimpleLithophilicInd.: | 20 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 40 |
|--|-----------|

SampleNumber: AB17877

EventID: 14T024

LSite: GMW-08-0022

County: Franklin

StreamName: East Fork Blue Creek

LocationDescription: Blue Creek Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 43 | | | | | |
| Bluntnose Minnow | 7 | | | | | |
| Central Stoneroller | 1066 | | | | | |
| Creek Chub | 138 | | | | | |
| Fantail Darter | 8 | | | | | |
| Johnny Darter | 18 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Orangethroat Darter | 36 | | | | | |
| Rainbow Darter | 17 | | | | | |
| Smallmouth Bass | 3 | | | | | |
| Spotted Bass | 4 | | | | | |
| Western Blacknose Dace | 130 | | | | | |
| White Sucker | 139 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080060 **LSite:** GMW-08-0015
Site: Whitewater River **Location:** SR 1 **County:** Franklin
Latitude: 39.359379 **Longitude:** -84.954709 **IASNat Region:** 11C **Topo:** G-45 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 1283.637 **Gradient (ft/mile):** 5.118

Sample Information

SampleNumber: AB17883 **EventID:** 14T025 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 09/08/2014 **SurveyCrewChief:** KAG **SampleTime:** 01:50:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 9 - East (90 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.56 **pH:** 8.18 **WaterTemp(°C):** 20.6 **SpecificConductivity (µS/cm):** 460 **Turbidity (NTU):** 3.63
SpecialNotes: Q2 Turbidity= 50.2

ElectrofishingEquipment: Canoe **Voltage:** 250 **Avg.StreamWidth(m):** 34 **DistanceFished (m):** 500
SecondsFished: 3546 **WaterDepthAvg (m):** .75 **WaterDepthMax (m):** 2 **TimeAtSite:** 05:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 77 **SubstrateScore (max20):** 14 **InstreamCover Score (max20):** 11 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 12 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 10 **%Riffle:** 20 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 31 | 5 | %TolerantIndividuals: | 24.56 | 5 |
| DarterSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 21.75 | 5 |
| SunfishSpeciesCount: | 4 | 5 | %InsectivoreIndividuals: | 57.19 | 5 |
| SuckerSpeciesCount: | 6 | 5 | %CarnivoreIndividuals: | 15.79 | 5 |
| SensitiveSpeciesCount: | 17 | 5 | Total # of Individuals (CPUE): | 285 | 3 |
| | | | %SimpleLithophilicInd.: | 22.81 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 56 |
|--|-----------|

SampleNumber: AB17883

EventID: 14T025

LSite: GMW-08-0015

County: Franklin

StreamName: Whitewater River

LocationDescription: SR 1

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 15 | | | | | |
| Black Redhorse | 3 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 49 | | | | | |
| Brindled Madtom | 1 | | | | | |
| Central Stoneroller | 12 | | | | | |
| Creek Chub | 2 | | | | | |
| Gizzard Shad | 10 | | | | | |
| Golden Redhorse | 5 | | | | | |
| Green Sunfish | 2 | | | | | |
| Greenside Darter | 2 | | | | | |
| Logperch | 1 | | | | | |
| Longear Sunfish | 27 | | | | | |
| Mottled Sculpin | 4 | | | | | |
| Northern Hog Sucker | 14 | | | | | |
| Rainbow Darter | 3 | | | | | |
| River Carpsucker | 3 | | | | | |
| Rock Bass | 24 | | | | | |
| Sand Shiner | 1 | | | | | |
| Silver Redhorse | 2 | | | | | |
| Silver Shiner | 30 | | | | | |
| Silverjaw Minnow | 3 | | | | | |
| Slenderhead Darter | 3 | | | | | |
| Smallmouth Bass | 15 | | | | | |
| Smallmouth Redhorse | 1 | | | | | |
| Spotfin Shiner | 39 | | | | | |
| Spotted Bass | 6 | | | | | |
| Stonecat | 2 | | | | | |
| Striped Shiner | 1 | | | | | |
| Western Blacknose Dace | 3 | | | | | |
| Yellow Bullhead | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080080 **LSite:** GMW-08-0016
Site: Big Cedar Creek **Location:** US 52 **County:** Franklin
Latitude: 39.357723 **Longitude:** -84.940649 **IASNat Region:** 11C **Topo:** G-45 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 29.542 **Gradient (ft/mile):** 38.336

Sample Information

SampleNumber: AB17882 **EventID:** 14T026 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/28/2014 **SurveyCrewChief:** KAG **SampleTime:** 01:00:00 PM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 4 - Cloudy **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.22 **pH:** 8.44 **WaterTemp(°C):** 22.02 **SpecificConductivity (µS/cm):** 445 **Turbidity (NTU):** 7.78
SpecialNotes: Q6 TURB = 23.9

ElectrofishingEquipment: Longline **Voltage:** 300 **Avg.StreamWidth(m):** 2 **DistanceFished (m):** 50
SecondsFished: 479 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** 1.5 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 61 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 6 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 9 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 6 **%Pool:** 15 **%Riffle:** 15 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior Plateau

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 15 | 3 | %TolerantIndividuals: | 19.48 | 5 |
| DarterSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 19.48 | 3 |
| SunfishSpeciesCount: | 3 | 3 | %InsectivoreIndividuals: | 49.35 | 3 |
| SuckerSpeciesCount: | 1 | 3 | %CarnivoreIndividuals: | 29.87 | 5 |
| SensitiveSpeciesCount: | 6 | 5 | Total # of Individuals (CPUE): | 77 | 1 |
| | | | %SimpleLithophilicInd.: | 10.39 | 1 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 42 |
|--|-----------|

SampleNumber: AB17882

EventID: 14T026

LSite: GMW-08-0016

County: Franklin

StreamName: Big Cedar Creek

LocationDescription: US 52

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 11 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 15 | | | | | |
| Central Stoneroller | 1 | | | | | |
| Fantail Darter | 6 | | | | | |
| Greenside Darter | 3 | | | | | |
| Johnny Darter | 3 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Northern Hog Sucker | 7 | | | | | |
| Orangethroat Darter | 1 | | | | | |
| Rock Bass | 4 | | | | | |
| Silverjaw Minnow | 2 | | | | | |
| Smallmouth Bass | 19 | | | | | |
| Spotfin Shiner | 2 | | | | | |
| Tadpole Madtom | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080070 **LSite:** GMW-08-0024
Site: Big Cedar Creek **Location:** Big Cedar Rd **County:** Franklin
Latitude: 39.420337 **Longitude:** -84.906855 **IASNat Region:** 11C **Topo:** G-22 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 7.646 **Gradient (ft/mile):** 54.985

Sample Information

SampleNumber: AB17876 **EventID:** 14T027 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/28/2014 **SurveyCrewChief:** KAG **SampleTime:** 02:50:00 PM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 2 - Mod./Light
DissolvedO2 (mg/l): 10.68 **pH:** 8.8 **WaterTemp(°C):** 20.89 **SpecificConductivity (µS/cm):** 504 **Turbidity (NTU):** 3.15
SpecialNotes: Q6 TURB = 2.3 NTU

ElectrofishingEquipment: Longline **Voltage:** 250 **Avg.StreamWidth(m):** 2.5 **DistanceFished (m):** 50
SecondsFished: 516 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** 1.2 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 68 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 12 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 4 **%Pool:** 20 **%Riffle:** 65 **%Run:** 15 **%Glide:** 0 **CanopyCover PctOpen:** 55%<-85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 18 | 5 | %TolerantIndividuals: | 51.21 | 1 |
| Darter/Madtom/SculpinSpeciesCount: | 6 | 5 | %OmnivoreIndividuals: | 32.53 | 3 |
| %HeadwaterIndividuals: | 4.15 | 1 | %InsectivoreIndividuals: | 32.18 | 3 |
| MinnnowSpeciesCount: | 5 | 3 | %PioneerIndividuals: | 58.82 | 1 |
| SensitiveSpeciesCount: | 5 | 5 | Total # of Individuals (CPUE): | 289 | 5 |
| | | | %SimpleLithophilicInd.: | 33.91 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 40 |
|--|-----------|

SampleNumber: AB17876

EventID: 14T027

LSite: GMW-08-0024

County: Franklin

StreamName: Big Cedar Creek

LocationDescription: Big Cedar Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 11 | | | | | |
| Bluegill | 3 | | | | | |
| Bluntnose Minnow | 50 | | | | | |
| Central Stoneroller | 38 | | | | | |
| Creek Chub | 46 | | | | | |
| Fantail Darter | 11 | | | | | |
| Green Sunfish | 4 | | | | | |
| Greenside Darter | 5 | | | | | |
| Johnny Darter | 2 | | | | | |
| Northern Hog Sucker | 2 | | | | | |
| Orangethroat Darter | 30 | | | | | |
| Rainbow Darter | 9 | | | | | |
| Smallmouth Bass | 10 | | | | | |
| Spotted Bass | 8 | | | | | |
| Striped Shiner | 12 | | | | | |
| Western Blacknose Dace | 1 | | | | | |
| White Sucker | 44 | | | | | |
| Yellow Bullhead | 3 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080100 **LSite:** GMW-08-0019
Site: Logan Creek **Location:** SR 46 **County:** Dearborn
Latitude: 39.277358 **Longitude:** -84.882803 **IASNat Region:** 11C **Topo:** G-45 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 12.572 **Gradient (ft/mile):** 9.189

Sample Information

SampleNumber: AB17880 **EventID:** 14T028 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/28/2014 **SurveyCrewChief:** KAG **SampleTime:** 10:30:00 AM **HydroLabNumber:** Q6
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 4 - Cloudy **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 3.07 **pH:** 7.62 **WaterTemp(°C):** 21.76 **SpecificConductivity (µS/cm):** 693 **Turbidity (NTU):** 23.5
SpecialNotes: Q6 TURB = 36.8

ElectrofishingEquipment: Canoe **Voltage:** 300 **Avg.StreamWidth(m):** 15 **DistanceFished (m):** 225
SecondsFished: 1324 **WaterDepthAvg (m):** 2 **WaterDepthMax (m):** 2.5 **TimeAtSite:** 02:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: W/BOOM; Oil sheen on water

Habitat Information

TotalScore (max100): 47 **SubstrateScore (max20):** 4 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 10 **%Pool:** 40 **%Riffle:** 0 **%Run:** 60 **%Glide:** 0 **CanopyCover PctOpen:** 10%-<30%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior Plateau

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 12 | 3 | %TolerantIndividuals: | 29.69 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 1 | 3 | %OmnivoreIndividuals: | 23.44 | 3 |
| %HeadwaterIndividuals: | 0 | 1 | %InsectivoreIndividuals: | 65.63 | 5 |
| MinnnowSpeciesCount: | 3 | 3 | %PioneerIndividuals: | 25 | 3 |
| SensitiveSpeciesCount: | 3 | 3 | Total # of Individuals (CPUE): | 64 | 1 |
| | | | %SimpleLithophilicInd.: | 18.75 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|----|
| Total IBI Score (min 0, max 60) | 36 |
|--|----|

SampleNumber: AB17880

EventID: 14T028

LSite: GMW-08-0019

County: Dearborn

StreamName: Logan Creek

LocationDescription: SR 46

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluegill | 10 | | | | | |
| Bluntnose Minnow | 12 | | | | | |
| Common Carp | 2 | | | | | |
| Golden Redhorse | 11 | | | | | |
| Goldfish | 1 | | | | | |
| Green Sunfish | 2 | | | | | |
| Johnny Darter | 2 | | | | | |
| Longear Sunfish | 16 | | | | | |
| Longnose Gar | 1 | | | | | |
| Smallmouth Bass | 1 | | | | | |
| Spotted Bass | 5 | | | | | |
| White Sucker | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080090 **LSite:** GMW-08-0030
Site: Whitewater River **Location:** St Peters Rd **County:** Franklin
Latitude: 39.314457 **Longitude:** -84.905643 **IASNat Region:** 11C **Topo:** G-45 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 1323.945 **Gradient (ft/mile):** 4.431

Sample Information

SampleNumber: AB17864 **EventID:** 14T029 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 09/09/2014 **SurveyCrewChief:** KAG **SampleTime:** 09:00:00 AM **HydroLabNumber:** Q2
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 3 - 46-60
WindDirection: 0 - North (0 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.18 **pH:** 8.2 **WaterTemp(°C):** 20.23 **SpecificConductivity (µS/cm):** 469 **Turbidity (NTU):** 5.66
SpecialNotes: Q2 turbidity = 12.9

ElectrofishingEquipment: Canoe **Voltage:** 250 **Avg.StreamWidth(m):** 32 **DistanceFished (m):** 500
SecondsFished: 3600 **WaterDepthAvg (m):** 1 **WaterDepthMax (m):** 2.5 **TimeAtSite:** 03:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 82 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 16 **ChannelMorphologyScore (max20):** 18
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 20 **%Riffle:** 30 **%Run:** 50 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 41 | 5 | %TolerantIndividuals: | 16.29 | 5 |
| DarterSpeciesCount: | 8 | 5 | %OmnivoreIndividuals: | 15.6 | 5 |
| SunfishSpeciesCount: | 3 | 3 | %InsectivoreIndividuals: | 57.52 | 5 |
| SuckerSpeciesCount: | 7 | 5 | %CarnivoreIndividuals: | 3.3 | 1 |
| SensitiveSpeciesCount: | 19 | 5 | Total # of Individuals (CPUE): | 878 | 5 |
| | | | %SimpleLithophilicInd.: | 11.73 | 1 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 50 |
|--|-----------|

SampleNumber: AB17864

EventID: 14T029

LSite: GMW-08-0030

County: Franklin

StreamName: Whitewater River

LocationDescription: St Peters Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 127 | | | | | |
| Black Redhorse | 4 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 127 | | | | | |
| Brindled Madtom | 4 | | | | | |
| Central Stoneroller | 204 | | | | | |
| Common Carp | 1 | | | | | |
| Creek Chub | 1 | | | | | |
| Emerald Shiner | 136 | | | | | |
| Fantail Darter | 2 | | | | | |
| Gizzard Shad | 7 | | | | | |
| Golden Redhorse | 10 | | | | | |
| Gravel Chub | 9 | | | | | |
| Greenside Darter | 3 | | | | | |
| Johnny Darter | 1 | | | | | |
| Logperch | 1 | | | | | |
| Longear Sunfish | 8 | | | | | |
| Longnose Gar | 2 | | | | | |
| Mottled Sculpin | 4 | | | | | |
| Northern Hog Sucker | 41 | | | | | |
| Orangethroat Darter | 3 | | | | | |
| Quillback | 1 | | | | | |
| Rainbow Darter | 8 | | | | | |
| River Carpsucker | 1 | | | | | |
| Rock Bass | 17 | | | | | |
| Rosyface Shiner | 6 | | | | | |
| Sand Shiner | 65 | | | | | |
| Shorthead Redhorse | 3 | | | | | |
| Silver Shiner | 7 | | | | | |
| Silverjaw Minnow | 4 | | | | | |
| Smallmouth Bass | 8 | | | | | |
| Smallmouth Redhorse | 2 | | | | | |
| Spotfin Shiner | 43 | | | | | |
| Spotted Bass | 2 | | | | | |
| Steelcolor Shiner | 1 | | | | | |
| Stonecat | 2 | | | | | |
| Striped Shiner | 5 | | | | | |
| Suckermouth Minnow | 2 | | | | | |
| Variegated Darter | 2 | | | | | |
| Western Blacknose Dace | 2 | | | | | |
| Yellow Bullhead | 1 | | | | | |

SampleNumber: AB17881

EventID: 14T030

LSite: GMW-08-0018

County: Dearborn

StreamName: Johnson Fork

LocationDescription: Johnson Fork Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 5 | | | | | |
| Bluegill | 11 | | | | | |
| Bluntnose Minnow | 52 | | | | | |
| Central Stoneroller | 154 | | | | | |
| Creek Chub | 46 | | | | | |
| Fantail Darter | 18 | | | | | |
| Green Sunfish | 1 | | | | | |
| Johnny Darter | 4 | | | | | |
| Northern Hog Sucker | 6 | | | | | |
| Orangethroat Darter | 6 | | | | | |
| Rainbow Darter | 21 | | | | | |
| Sand Shiner | 4 | | | | | |
| Scarlet Shiner | 1 | | | | | |
| Silverjaw Minnow | 3 | | | | | |
| Spotfin Shiner | 2 | | | | | |
| Striped Shiner | 30 | | | | | |
| Western Blacknose Dace | 55 | | | | | |
| White Sucker | 14 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080120 **LSite:** GMW-08-0021
Site: Whitewater River **Location:** Jamison Rd **County:** Dearborn
Latitude: 39.249308 **Longitude:** -84.820914 **IASNat Region:** 11C **Topo:** G-70 **Segment:** 89
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 1369.728 **Gradient (ft/mile):** 3.7

Sample Information

SampleNumber: AB17878 **EventID:** 14T031 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 09/10/2014 **SurveyCrewChief:** KAG **SampleTime:** 11:30:00 AM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 4 - Cloudy **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 8.93 **pH:** 8.24 **WaterTemp(°C):** 21.42 **SpecificConductivity (µS/cm):** 468 **Turbidity (NTU):** 5.92
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 300 **Avg.StreamWidth(m):** 33 **DistanceFished (m):** 495
SecondsFished: 3600 **WaterDepthAvg (m):** 1 **WaterDepthMax (m):** 3 **TimeAtSite:** 03:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: w/2.5 GPP

Habitat Information

TotalScore (max100): 65 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 3 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 12 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 5 **%Riffle:** 10 **%Run:** 85 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 33 | 5 | %TolerantIndividuals: | 10.28 | 5 |
| DarterSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 6.54 | 5 |
| SunfishSpeciesCount: | 4 | 5 | %InsectivoreIndividuals: | 82.94 | 5 |
| SuckerSpeciesCount: | 5 | 5 | %CarnivoreIndividuals: | 7.48 | 3 |
| SensitiveSpeciesCount: | 18 | 5 | Total # of Individuals (CPUE): | 428 | 3 |
| | | | %SimpleLithophilicInd.: | 21.03 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 54 |
|--|-----------|

SampleNumber: AB17878

EventID: 14T031

LSite: GMW-08-0021

County: Dearborn

StreamName: Whitewater River

LocationDescription: Jamison Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|---------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Banded Darter | 32 | | | | | |
| Bigeye Shiner | 1 | | | | | |
| Black Redhorse | 10 | | | | | |
| Bluegill | 1 | | | | | |
| Bluntnose Minnow | 5 | | | | | |
| Brindled Madtom | 1 | | | | | |
| Central Stoneroller | 12 | | | | | |
| Channel Catfish | 2 | | | | | |
| Emerald Shiner | 89 | | | | | |
| Fantail Darter | 1 | | | | | |
| Freshwater Drum | 7 | | | | | |
| Gizzard Shad | 21 | | | | | |
| Golden Redhorse | 40 | | | | | |
| Gravel Chub | 6 | | | | | |
| Green Sunfish | 6 | | | | | |
| Greenside Darter | 3 | | | | | |
| Highfin Carpsucker | 2 | | | | | |
| Logperch | 1 | | | | | |
| Longear Sunfish | 68 | | | | | |
| Longnose Gar | 1 | | | | | |
| Northern Hog Sucker | 14 | | | | | |
| Rainbow Darter | 14 | | | | | |
| Rock Bass | 4 | | | | | |
| Rosyface Shiner | 3 | | | | | |
| Sand Shiner | 5 | | | | | |
| Sauger | 1 | | | | | |
| Smallmouth Bass | 1 | | | | | |
| Smallmouth Redhorse | 1 | | | | | |
| Spotfin Shiner | 50 | | | | | |
| Spotted Bass | 22 | | | | | |
| Stonecat | 2 | | | | | |
| White Bass | 1 | | | | | |
| Yellow Bullhead | 1 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080140 **LSite:** GMW-08-0027
Site: Sours Run **Location:** Drewersburg Rd **County:** Franklin
Latitude: 39.378870 **Longitude:** -84.836775 **IASNat Region:** 11C **Topo:** G-23 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 5.232 **Gradient (ft/mile):** 22.189

Sample Information

SampleNumber: AB17871 **EventID:** 14T032 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/21/2014 **SurveyCrewChief:** KAG **SampleTime:** 12:50:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 7.97 **pH:** 7.97 **WaterTemp(°C):** 20.29 **SpecificConductivity (µS/cm):** 585 **Turbidity (NTU):** 5.43
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 175 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 90
SecondsFished: 628 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .6 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 58 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 10 **%Pool: #** \$ **%Riffle: #** \$ **%Run: #** \$ **%Glide: #** \$ **CanopyCover PctOpen:** <10%-Closed
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|------------------------------------|-------------------------------------|-------------------------------|--------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 11 | 5 | %TolerantIndividuals: | 50.82 | 1 |
| Darter/Madtom/SculpinSpeciesCount: | 4 | 5 | %OmnivoreIndividuals: | 9.02 | 5 |
| %HeadwaterIndividuals: | 15.57 | 3 | %InsectivoreIndividuals: | 47.54 | 3 |
| MinnnowSpeciesCount: | 4 | 3 | %PioneerIndividuals: | 69.67 | 1 |
| SensitiveSpeciesCount: | 1 | 1 | Total # of Individuals (CPUE): | 122 | 3 |
| | | | %SimpleLithophilicInd.: | 23.77 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 38 |
|--|-----------|

SampleNumber: AB17871

EventID: 14T032

LSite: GMW-08-0027

County: Franklin

StreamName: Sours Run

LocationDescription: Drewersburg Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 4 | | | | | |
| Central Stoneroller | 7 | | | | | |
| Creek Chub | 45 | | | | | |
| Fantail Darter | 16 | | | | | |
| Green Sunfish | 3 | | | | | |
| Johnny Darter | 17 | | | | | |
| Orangethroat Darter | 9 | | | | | |
| Rainbow Darter | 10 | | | | | |
| Spotted Bass | 1 | | | | | |
| Western Blacknose Dace | 3 | | | | | |
| White Sucker | 7 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080130 **LSite:** GMW-08-0020
Site: Dry Fork Whitewater River **Location:** Dickson Rd **County:** Franklin
Latitude: 39.392580 **Longitude:** -84.821300 **IASNat Region:** 11C **Topo:** G-23 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 11.774 **Gradient (ft/mile):** 55.154

Sample Information

SampleNumber: AB17879 **EventID:** 14T033 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 07/21/2014 **SurveyCrewChief:** KAG **SampleTime:** 02:30:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 11.53 **pH:** 8.39 **WaterTemp(°C):** 23.52 **SpecificConductivity (µS/cm):** 512 **Turbidity (NTU):** 3.32
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 90
SecondsFished: 468 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .6 **TimeAtSite:** 01:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 56 **SubstrateScore (max20):** 16 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 14
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 4 **%Pool:** 15 **%Riffle:** 30 **%Run:** 55 **%Glide:** 0 **CanopyCover PctOpen:** 55%-<85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 13 | 5 | %TolerantIndividuals: | 29.65 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 6 | 5 | %OmnivoreIndividuals: | 15.93 | 5 |
| %HeadwaterIndividuals: | 13.72 | 1 | %InsectivoreIndividuals: | 38.05 | 3 |
| MinnnowSpeciesCount: | 5 | 3 | %PioneerIndividuals: | 71.24 | 1 |
| SensitiveSpeciesCount: | 3 | 3 | Total # of Individuals (CPUE): | 226 | 5 |
| | | | %SimpleLithophilicInd.: | 9.73 | 1 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 40 |
|--|-----------|

SampleNumber: AB17879

EventID: 14T033

LSite: GMW-08-0020

County: Franklin

StreamName: Dry Fork Whitewater River

LocationDescription: Dickson Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 28 | | | | | |
| Central Stoneroller | 75 | | | | | |
| Creek Chub | 27 | | | | | |
| Fantail Darter | 27 | | | | | |
| Greenside Darter | 19 | | | | | |
| Johnny Darter | 25 | | | | | |
| Orangethroat Darter | 6 | | | | | |
| Rainbow Darter | 3 | | | | | |
| Slenderhead Darter | 1 | | | | | |
| Spotfin Shiner | 1 | | | | | |
| Spotted Bass | 2 | | | | | |
| Western Blacknose Dace | 4 | | | | | |
| White Sucker | 8 | | | | | |



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Whitewater **14 digit HUC:** 05080003080130 **LSite:** GMW-08-0020
Site: Dry Fork Whitewater River **Location:** Dickson Rd **County:** Franklin
Latitude: 39.392580 **Longitude:** -84.821300 **IASNat Region:** 11C **Topo:** G-23 **Segment:** 89
Ecoregion: Eastern Corn Belt Plains **Drainage Area (sq.miles):** 11.774 **Gradient (ft/mile):** 55.154

Sample Information

SampleNumber: AB18791 **EventID:** 14T033.5 **Sample MediumCollected:** Fish Community + Water
SampleDate: 09/04/2014 **SurveyCrewChief:** PDM **SampleTime:** 12:05:00 PM **HydroLabNumber:** Q4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 8.55 **pH:** 7.99 **WaterTemp(°C):** 21.14 **SpecificConductivity (µS/cm):** 437 **Turbidity (NTU):** 2.98
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 175 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 90
SecondsFished: 653 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .5 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 63 **SubstrateScore (max20):** 16 **InstreamCover Score (max20):** 14 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 6 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 4 **%Pool:** 25 **%Riffle:** 25 **%Run:** 50 **%Glide:** 0 **CanopyCover PctOpen:** 55%-<85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Eastern Corn Belt Plains

| | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> | | <u>Actual</u> <u>Observation</u> | <u>Metric</u> <u>Score</u> |
|---|-------------------------------------|-------------------------------|---------------------------------------|-------------------------------------|-------------------------------|
| SpeciesCount: | 16 | 5 | %TolerantIndividuals: | 35.08 | 3 |
| Darter/Madtom/SculpinSpeciesCount: | 5 | 5 | %OmnivoreIndividuals: | 12.79 | 5 |
| %HeadwaterIndividuals: | 26.23 | 3 | %InsectivoreIndividuals: | 55.74 | 5 |
| MinnnowSpeciesCount: | 8 | 5 | %PioneerIndividuals: | 53.77 | 1 |
| SensitiveSpeciesCount: | 3 | 3 | Total # of Individuals (CPUE): | 305 | 5 |
| | | | %SimpleLithophilicInd.: | 20.33 | 3 |
| | | | %Ind.withDELT: | 0 | 5 |

Metrics are dependent on Ecoregion and Drainage Area.
 Metrics can score a 0, 1, 3, or 5 depending on calibration.

| | |
|--|-----------|
| Total IBI Score (min 0, max 60) | 48 |
|--|-----------|

SampleNumber: AB18791

EventID: 14T033.5

LSite: GMW-08-0020

County: Franklin

StreamName: Dry Fork Whitewater River

LocationDescription: Dickson Rd

| Common Name | Individual Fish Count | Deformities | Eroded Fins | Lesions | Tumors | Multiple Anomalies |
|------------------------|-----------------------|-------------|-------------|---------|--------|--------------------|
| Bluntnose Minnow | 19 | | | | | |
| Central Stoneroller | 49 | | | | | |
| Creek Chub | 46 | | | | | |
| Fantail Darter | 58 | | | | | |
| Fathead Minnow | 1 | | | | | |
| Greenside Darter | 20 | | | | | |
| Johnny Darter | 44 | | | | | |
| Largemouth Bass | 1 | | | | | |
| Longear Sunfish | 1 | | | | | |
| Orangethroat Darter | 2 | | | | | |
| Rainbow Darter | 16 | | | | | |
| Silverjaw Minnow | 3 | | | | | |
| Spotfin Shiner | 1 | | | | | |
| Striped Shiner | 3 | | | | | |
| Western Blacknose Dace | 22 | | | | | |
| White Sucker | 19 | | | | | |