



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090020 **LSite:** WEL-08-0005
Site: Clear Creek **Location:** SR 37 **County:** Monroe
Latitude: 39.096531 **Longitude:** -86.546215 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 25.654 **Gradient (ft/mile):** 9.978

Sample Information

SampleNumber: AB23915 **EventID:** 16T001 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/25/2016 **SurveyCrewChief:** KAG **SampleTime:** 11:00:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.54 **pH:** 7.86 **WaterTemp(°C):** 23.08 **SpecificConductivity (µS/cm):** 476 **Turbidity (NTU):** 11
SpecialNotes:

ElectrofishingEquipment: Longline **Voltage:** 250 **Avg.StreamWidth(m):** 10 **DistanceFished (m):** 150
SecondsFished: 755 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 76 **SubstrateScore (max20):** 14 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 11 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 50 **%Riffle:** 20 **%Run:** 30 **%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:	16	3	%TolerantIndividuals:	38.8	3
DarterSpeciesCount:	3	3	%OmnivoreIndividuals:	14.21	5
SunfishSpeciesCount:	5	5	%InsectivoreIndividuals:	77.6	5
SuckerSpeciesCount:	1	3	%CarnivoreIndividuals:	6.56	5
SensitiveSpeciesCount:	5	3	Total # of Individuals (CPUE):	183	3
			%SimpleLithophilicInd.:	16.94	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)	46
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SampleNumber: AB23915

EventID: 16T001

LSite: WEL-08-0005

County: Monroe

StreamName: Clear Creek

LocationDescription: SR 37

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	24					
Bluntnose Minnow	26					
Central Stoneroller	1					
Creek Chub	2					
Fantail Darter	2					
Green Sunfish	40					
Johnny Darter	5					
Largemouth Bass	1					
Longear Sunfish	35					
Northern Hog Sucker	6					
Rainbow Darter	8					
Redear Sunfish	2					
Rock Bass	4					
Smallmouth Bass	7					
Striped Shiner	17					
Yellow Bullhead	3					



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Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090010 **LSite:** WEL-08-0006
Site: Jackson Creek **Location:** S Rogers St **County:** Monroe
Latitude: 39.100208 **Longitude:** -86.538453 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 10.713 **Gradient (ft/mile):** 14.364

Sample Information

SampleNumber: AB23916 **EventID:** 16T002 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/24/2016 **SurveyCrewChief:** KAG **SampleTime:** 09:00:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 4 - Cloudy **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 8.59 **pH:** 7.86 **WaterTemp(°C):** 19.71 **SpecificConductivity (µS/cm):** 532 **Turbidity (NTU):** 6.62
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 120
SecondsFished: 800 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .4 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 77 **SubstrateScore (max20):** 17 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 10 **%Pool:** **%Riffle:** **%Run:** **%Glide:** **CanopyCover PctOpen:** 30%-<55%
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:	14	5	%TolerantIndividuals:	39.6 3
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	0 5
%HeadwaterIndividuals:	2.97	1	%InsectivoreIndividuals:	61.39 5
MinnnowSpeciesCount:	3	3	%PioneerIndividuals:	45.54 3
SensitiveSpeciesCount:	6	5	Total # of Individuals (CPUE):	101 1
			%SimpleLithophilicInd.:	30.69 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
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SampleNumber: AB23916

EventID: 16T002

LSite: WEL-08-0006

County: Monroe

StreamName: Jackson Creek

LocationDescription: S Rogers St

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	8					
Central Stoneroller	3					
Creek Chub	30					
Fantail Darter	3					
Green Sunfish	10					
Greenside Darter	1					
Johnny Darter	3					
Largemouth Bass	1					
Longear Sunfish	6					
Northern Hog Sucker	2					
Rainbow Darter	13					
Rock Bass	1					
Smallmouth Bass	4					
Striped Shiner	16					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090010 **LSite:** WEL-08-0007
Site: Clear Creek **Location:** W Church Ln **County:** Monroe
Latitude: 39.107820 **Longitude:** -86.542246 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 8.51 **Gradient (ft/mile):** 28.415

Sample Information

SampleNumber: AB23917 **EventID:** 16T003 **Sample Medium Collected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** SNO **SampleTime:** 01:15:00 PM **HydroLabNumber:** Q4
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.16 **pH:** 8.08 **WaterTemp(°C):** 20.29 **SpecificConductivity (µS/cm):** 534 **Turbidity (NTU):** 5.23
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 7 **DistanceFished (m):** 105
SecondsFished: 763 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .3 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 68 **SubstrateScore (max20):** 19 **InstreamCover Score (max20):** 11 **ChannelMorphologyScore (max20):** 14
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 3 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 5 **%Riffle:** 45 **%Run:** 50 **%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:	14	5	%TolerantIndividuals:	38.32	3
Darter/Madtom/SculpinSpeciesCount:	5	5	%OmnivoreIndividuals:	6.54	5
%HeadwaterIndividuals:	18.69	3	%InsectivoreIndividuals:	75.7	5
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	42.99	3
SensitiveSpeciesCount:	4	3	Total # of Individuals (CPUE):	107	1
			%SimpleLithophilicInd.:	26.17	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
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SampleNumber: AB23917

EventID: 16T003

LSite: WEL-08-0007

County: Monroe

StreamName: Clear Creek

LocationDescription: W Church Ln

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	5					
Bluntnose Minnow	3					
Central Stoneroller	2					
Creek Chub	16					
Fantail Darter	20					
Green Sunfish	18					
Greenside Darter	5					
Johnny Darter	1					
Longear Sunfish	8					
Orangethroat Darter	6					
Rainbow Darter	3					
Smallmouth Bass	1					
Striped Shiner	15					
White Sucker	4					



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Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090010 **LSite:** WEL-08-0008
Site: Clear Creek **Location:** W Country Club Dr **County:** Monroe
Latitude: 39.136119 **Longitude:** -86.533574 **IASNat Region:** 10A **Topo:** G-56 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 5.788 **Gradient (ft/mile):** 20.847

Sample Information

SampleNumber: AB23918 **EventID:** 16T004 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/25/2016 **SurveyCrewChief:** KAG **SampleTime:** 12:40:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.08 **pH:** 7.76 **WaterTemp(°C):** 24.25 **SpecificConductivity (µS/cm):** 711 **Turbidity (NTU):** 3.68
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 7 **DistanceFished (m):** 135
SecondsFished: 606 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .3 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 54.32% catch Central Stoneroller

Habitat Information

TotalScore (max100): 53 **SubstrateScore (max20):** 10 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 6
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 6 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 10 **%Pool:** 20 **%Riffle:** 20 **%Run:** 20 **%Glide:** 40 **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:	10	3	%TolerantIndividuals:	20.37	5
Darter/Madtom/SculpinSpeciesCount:	3	5	%OmnivoreIndividuals:	0	5
%HeadwaterIndividuals:	7.72	1	%InsectivoreIndividuals:	29.94	3
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	75.62	1
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	324	5
			%SimpleLithophilicInd.:	23.15	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
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SampleNumber: AB23918

EventID: 16T004

LSite: WEL-08-0008

County: Monroe

StreamName: Clear Creek

LocationDescription: W Country Club Dr

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	13					
Bluegill	1					
Central Stoneroller	176					
Creek Chub	51					
Fantail Darter	12					
Green Sunfish	2					
Orangethroat Darter	16					
Rainbow Darter	45					
Striped Shiner	1					
Western Mosquitofish	7					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090020 **LSite:** WEL-08-0010
Site: Tributary of Clear Creek **Location:** S Victor Pike **County:** Monroe
Latitude: 39.079638 **Longitude:** -86.568923 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 4.448 **Gradient (ft/mile):** 15.428

Sample Information

SampleNumber: AB23919 **EventID:** 16T006 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** SNO **SampleTime:** 11:15:00 AM **HydroLabNumber:** Q4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.2 **pH:** 8.1 **WaterTemp(°C):** 18.73 **SpecificConductivity (µS/cm):** 495 **Turbidity (NTU):** 6.81
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 8 **DistanceFished (m):** 120
SecondsFished: 886 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .5 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 66 **SubstrateScore (max20):** 16 **InstreamCover Score (max20):** 6 **ChannelMorphologyScore (max20):** 14
RiparianZoneBankErosion Score(max10): 10 **Pool/GlideQualityScore(max12):** 3 **Riffle/RunQualityScore(max8):** 7
GradientScore (max10): 10 **%Pool:** 10 **%Riffle:** 45 **%Run:** 45 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	14	5	%TolerantIndividuals:	31.19	3
Darter/Madtom/SculpinSpeciesCount:	6	5	%OmnivoreIndividuals:	0.92	5
%HeadwaterIndividuals:	16.51	3	%InsectivoreIndividuals:	56.88	5
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	53.21	1
SensitiveSpeciesCount:	4	3	Total # of Individuals (CPUE):	109	1
			%SimpleLithophilicInd.:	29.36	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)	42
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SampleNumber: AB23919

EventID: 16T006

LSite: WEL-08-0010

County: Monroe

StreamName: Tributary of Clear Creek

LocationDescription: S Victor Pike

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Banded Sculpin	1					
Bluntnose Minnow	1					
Central Stoneroller	16					
Creek Chub	29					
Fantail Darter	17					
Green Sunfish	3					
Greenside Darter	4					
Johnny Darter	4					
Northern Hog Sucker	1					
Orangethroat Darter	5					
Rainbow Darter	8					
Smallmouth Bass	1					
Striped Shiner	18					
Yellow Bullhead	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090020 **LSite:** WEL-08-0011
Site: Tributary of Clear Creek **Location:** S Victor Pike **County:** Monroe
Latitude: 39.062896 **Longitude:** -86.579799 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 3.919 **Gradient (ft/mile):** 31.636

Sample Information

SampleNumber: AB23920 **EventID:** 16T007 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** AKS **SampleTime:** 02:00:00 PM **HydroLabNumber:** Q4
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.21 **pH:** 8.08 **WaterTemp(°C):** 18.54 **SpecificConductivity (µS/cm):** 464 **Turbidity (NTU):** 6.58
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 4 **DistanceFished (m):** 60
SecondsFished: 482 **WaterDepthAvg (m):** .1 **WaterDepthMax (m):** .4 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 56 **SubstrateScore (max20):** 16 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 12
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 3 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 8 **%Pool:** 10 **%Riffle:** 70 **%Run:** 20 **%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:	15	5	%TolerantIndividuals:	34.21 3
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	2.11 5
%HeadwaterIndividuals:	3.68	1	%InsectivoreIndividuals:	44.21 3
MinnnowSpeciesCount:	5	3	%PioneerIndividuals:	65.79 1
SensitiveSpeciesCount:	3	3	Total # of Individuals (CPUE):	190 3
			%SimpleLithophilicInd.:	30.53 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
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SampleNumber: AB23920

EventID: 16T007

LSite: WEL-08-0011

County: Monroe

StreamName: Tributary of Clear Creek

LocationDescription: S Victor Pike

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	2					
Bluegill	3					
Bluntnose Minnow	2					
Central Stoneroller	49					
Creek Chub	52					
Fantail Darter	5					
Green Sunfish	6					
Johnny Darter	7					
Longear Sunfish	6					
Orangethroat Darter	9					
Rainbow Darter	23					
Smallmouth Bass	1					
Striped Shiner	22					
White Sucker	2					
Yellow Bullhead	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090030 **LSite:** WEL-08-0012
Site: Clear Creek **Location:** S Ketcham Rd **County:** Monroe
Latitude: 39.034148 **Longitude:** -86.566993 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 55.088 **Gradient (ft/mile):** 12.985

Sample Information

SampleNumber: AB23921 **EventID:** 16T008 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/24/2016 **SurveyCrewChief:** KAG **SampleTime:** 01:30:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.1 **pH:** 8.01 **WaterTemp(°C):** 22.57 **SpecificConductivity (µS/cm):** 599 **Turbidity (NTU):** 5.2
SpecialNotes:

ElectrofishingEquipment: Longline **Voltage:** 250 **Avg.StreamWidth(m):** 15 **DistanceFished (m):** 220
SecondsFished: 1243 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** .8 **TimeAtSite:** 02:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 88 **SubstrateScore (max20):** 18 **InstreamCover Score (max20):** 18 **ChannelMorphologyScore (max20):** 18
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 11 **Riffle/RunQualityScore(max8):** 7
GradientScore (max10): 8 **%Pool:** 40 **%Riffle:** 30 **%Run:** 30 **%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:	19	5	%TolerantIndividuals:	9.42	5
DarterSpeciesCount:	4	5	%OmnivoreIndividuals:	7.14	5
SunfishSpeciesCount:	5	5	%InsectivoreIndividuals:	53.25	5
SuckerSpeciesCount:	1	3	%CarnivoreIndividuals:	22.4	5
SensitiveSpeciesCount:	6	5	Total # of Individuals (CPUE):	308	5
			%SimpleLithophilicInd.:	14.94	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)	54
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SampleNumber: AB23921

EventID: 16T008

LSite: WEL-08-0012

County: Monroe

StreamName: Clear Creek

LocationDescription: S Ketcham Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	6					
Bluntnose Minnow	22					
Central Stoneroller	52					
Creek Chub	1					
Fantail Darter	2					
Freshwater Drum	1					
Green Sunfish	2					
Greenside Darter	24					
Johnny Darter	5					
Longear Sunfish	76					
Northern Hog Sucker	6					
Rainbow Darter	22					
Rock Bass	48					
Smallmouth Bass	19					
Striped Shiner	16					
Suckermouth Minnow	1					
Walleye	1					
Warmouth	1					
Yellow Bullhead	3					



Indiana Department of Environmental Management
Fish Community Assessments

Site Information

SubBasin: Lower East Fork White 14 digit HUC: 05120208090020 LSite: WEL-08-0013
 Site: Tributary of Clear Creek Location: Will Flock Mill Rd County: Monroe
 Latitude: 39.070220 Longitude: -86.561665 IASNat Region: 10A Topo: H-10 Segment: 75
 Ecoregion: Interior Plateau Drainage Area (sq.miles): 1.206 Gradient (ft/mile): 23.415

Sample Information

SampleNumber: AB23922 EventID: 16T009 Sample MediumCollected: Fish Community + Water
 SampleDate: 08/23/2016 SurveyCrewChief: SNO SampleTime: 09:45:00 AM HydroLabNumber: Q4
 WaterFlowType: Riffle WaterAppearance: Clear SkyConditions: AirTemperature:
 WindDirection: WindStrength:
 DissolvedO2 (mg/l): 9.08 pH: 8.04 WaterTemp(°C): 17.33 SpecificConductivity (µS/cm): 502 Turbidity (NTU): 5.46
 SpecialNotes:

ElectrofishingEquipment: Backpack Voltage: 250 Avg.StreamWidth(m): 5 DistanceFished (m): 50
 SecondsFished: 532 WaterDepthAvg (m): .1 WaterDepthMax (m): .2 TimeAtSite: 01:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments:

Habitat Information

TotalScore (max100): 53 SubstrateScore (max20): 16 InstreamCover Score (max20): 4 ChannelMorphologyScore (max20): 14
 RiparianZoneBankErosion Score(max10): 4 Pool/GlideQualityScore(max12): 0 Riffle/RunQualityScore(max8): 5
 GradientScore (max10): 10 %Pool: 5 %Riffle: 65 %Run: 30 %Glide: 0 CanopyCover PctOpen: <10%-Closed
 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:	11	3	%TolerantIndividuals:	40.3	3
Darter/Madtom/SculpinSpeciesCount:	2	3	%OmnivoreIndividuals:	0	5
%HeadwaterIndividuals:	13.43	3	%InsectivoreIndividuals:	44.78	3
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	61.19	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	67	1
			%SimpleLithophilicInd.:	28.36	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
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SampleNumber: AB23922

EventID: 16T009

LSite: WEL-08-0013

County: Monroe

StreamName: Tributary of Clear Creek

LocationDescription: Will Flock Mill Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	1					
Central Stoneroller	12					
Creek Chub	23					
Fantail Darter	8					
Green Sunfish	2					
Northern Hog Sucker	1					
Orangethroat Darter	4					
Smallmouth Bass	1					
Spotted Bass	1					
Striped Shiner	13					
Yellow Bullhead	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090030 **LSite:** WEL-08-0014
Site: Judah Branch **Location:** S Old SR 37 **County:** Monroe
Latitude: 38.998230 **Longitude:** -86.545333 **IASNat Region:** 10A **Topo:** H-33 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 3.306 **Gradient (ft/mile):** 24.37

Sample Information

SampleNumber: AB23923 **EventID:** 16T010 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** SNO **SampleTime:** 10:20:00 AM **HydroLabNumber:** Q4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 3 - Partly **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.65 **pH:** 7.98 **WaterTemp(°C):** 16 **SpecificConductivity (µS/cm):** 430 **Turbidity (NTU):** 9.87
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 1036 **WaterDepthAvg (m):** .1 **WaterDepthMax (m):** .6 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 67 **SubstrateScore (max20):** 17 **InstreamCover Score (max20):** 5 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 10 **Pool/GlideQualityScore(max12):** 4 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 10 **%Pool:** 15 **%Riffle:** 80 **%Run:** 5 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	10	3	%TolerantIndividuals:	60	1
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	0	5
%HeadwaterIndividuals:	29.09	5	%InsectivoreIndividuals:	60.91	5
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	55.45	1
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	110	1
			%SimpleLithophilicInd.:	23.64	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
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SampleNumber: AB23923

EventID: 16T010

LSite: WEL-08-0014

County: Monroe

StreamName: Judah Branch

LocationDescription: S Old SR 37

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	9					
Central Stoneroller	3					
Creek Chub	40					
Fantail Darter	23					
Green Sunfish	15					
Johnny Darter	1					
Orangethroat Darter	2					
Rainbow Darter	8					
Striped Shiner	7					
Yellow Bullhead	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090030 **LSite:** WEL-08-0015
Site: Clear Creek **Location:** S Gore Rd **County:** Monroe
Latitude: 39.019040 **Longitude:** -86.543974 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 60.963 **Gradient (ft/mile):** 4.047

Sample Information

SampleNumber: AB23924 **EventID:** 16T011 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/24/2016 **SurveyCrewChief:** SNO **SampleTime:** 11:45:00 AM **HydroLabNumber:** Q4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 2 - Mod./Light
DissolvedO2 (mg/l): 8.34 **pH:** 7.97 **WaterTemp(°C):** 21.34 **SpecificConductivity (µS/cm):** 553 **Turbidity (NTU):** 4.87
SpecialNotes:

ElectrofishingEquipment: Scanoe **Voltage:** 300 **Avg.StreamWidth(m):** 15 **DistanceFished (m):** 225
SecondsFished: 3600 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 04:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 77 **SubstrateScore (max20):** 17 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 14
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 11 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 6 **%Pool:** 30 **%Riffle:** 20 **%Run:** 50 **%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>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	25	5	%TolerantIndividuals:	2.98	5
DarterSpeciesCount:	6	5	%OmnivoreIndividuals:	1.32	5
SunfishSpeciesCount:	6	5	%InsectivoreIndividuals:	78.81	5
SuckerSpeciesCount:	2	3	%CarnivoreIndividuals:	17.88	5
SensitiveSpeciesCount:	7	5	Total # of Individuals (CPUE):	302	5
			%SimpleLithophilicInd.:	28.81	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
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SampleNumber: AB23924

EventID: 16T011

LSite: WEL-08-0015

County: Monroe

StreamName: Clear Creek

LocationDescription: S Gore Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Crappie	1					
Blackstripe Topminnow	2					
Bluegill	38					
Bluntnose Minnow	4					
Central Stoneroller	5					
Channel Catfish	1					
Creek Chub	1					
Fantail Darter	9					
Flathead Catfish	1					
Green Sunfish	1					
Greenside Darter	7					
Johnny Darter	16					
Largemouth Bass	1					
Logperch	1					
Longear Sunfish	67					
Northern Hog Sucker	17					
Orangethroat Darter	6					
Rainbow Darter	50					
Rock Bass	43					
Smallmouth Bass	6					
Spotted Bass	2					
Spotted Sucker	1					
Striped Shiner	12					
White Crappie	9					
Yellow Bullhead	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090030 **LSite:** WEL-08-0016
Site: Clear Creek **Location:** Depot Hill Rd **County:** Monroe
Latitude: 39.012028 **Longitude:** -86.529329 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 68.368 **Gradient (ft/mile):** 4.047

Sample Information

SampleNumber: AB23925 **EventID:** 16T012 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/24/2016 **SurveyCrewChief:** KAG **SampleTime:** 10:45:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 7.96 **pH:** 7.84 **WaterTemp(°C):** 21.08 **SpecificConductivity (µS/cm):** 583 **Turbidity (NTU):** 8.12
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 300 **Avg.StreamWidth(m):** 10 **DistanceFished (m):** 320
SecondsFished: 1500 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 02:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 77 **SubstrateScore (max20):** 17 **InstreamCover Score (max20):** 17 **ChannelMorphologyScore (max20):** 12
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 11 **Riffle/RunQualityScore(max8):** 7
GradientScore (max10): 6 **%Pool:** 35 **%Riffle:** 15 **%Run:** 50 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	17	5	%TolerantIndividuals:	11.2	5
DarterSpeciesCount:	6	5	%OmnivoreIndividuals:	5.6	5
SunfishSpeciesCount:	4	5	%InsectivoreIndividuals:	60	5
SuckerSpeciesCount:	1	3	%CarnivoreIndividuals:	34.4	5
SensitiveSpeciesCount:	10	5	Total # of Individuals (CPUE):	125	1
			%SimpleLithophilicInd.:	16.8	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
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SampleNumber: AB23925

EventID: 16T012

LSite: WEL-08-0016

County: Monroe

StreamName: Clear Creek

LocationDescription: Depot Hill Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	7					
Bluntnose Minnow	7					
Brindled Madtom	2					
Dusky Darter	1					
Fantail Darter	1					
Green Sunfish	7					
Greenside Darter	1					
Johnny Darter	4					
Logperch	2					
Longear Sunfish	31					
Northern Hog Sucker	3					
Rainbow Darter	14					
Rock Bass	29					
Sand Shiner	1					
Smallmouth Bass	10					
Spotted Bass	4					
Striped Shiner	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090030 **LSite:** WEL-08-0017
Site: Little Clear Creek **Location:** E Monroe Dam Rd **County:** Monroe
Latitude: 39.021444 **Longitude:** -86.530706 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 5.702 **Gradient (ft/mile):** 17.937

Sample Information

SampleNumber: AB23926 **EventID:** 16T013 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** SNO **SampleTime:** 12:20:00 PM **HydroLabNumber:** Q4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 8.68 **pH:** 7.87 **WaterTemp(°C):** 18.18 **SpecificConductivity (µS/cm):** 465 **Turbidity (NTU):** 4.26
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 80
SecondsFished: 622 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .6 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 80.69% catch Creek Chub

Habitat Information

TotalScore (max100): 59 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 12 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 4 **Riffle/RunQualityScore(max8):** 3
GradientScore (max10): 10 **%Pool:** 10 **%Riffle:** 70 **%Run:** 20 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	10	3	%TolerantIndividuals:	84.83	1
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	3.45	1
%HeadwaterIndividuals:	1.38	1	%InsectivoreIndividuals:	8.97	1
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	89.66	1
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	145	3
			%SimpleLithophilicInd.:	10.34	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)	26
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SampleNumber: AB23926

EventID: 16T013

LSite: WEL-08-0017

County: Monroe

StreamName: Little Clear Creek

LocationDescription: E Monroe Dam Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	1					
Bluegill	1					
Central Stoneroller	10					
Creek Chub	117					
Fantail Darter	1					
Johnny Darter	1					
Orangethroat Darter	2					
Rainbow Darter	3					
Striped Shiner	4					
White Sucker	5					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090070 **LSite:** WEL-08-0018
Site: Little Salt Creek **Location:** SR 446 **County:** Lawrence
Latitude: 38.964658 **Longitude:** -86.378188 **IASNat Region:** 10B **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 29.672 **Gradient (ft/mile):** 14.316

Sample Information

SampleNumber: AB23927 **EventID:** 16T014 **Sample Medium Collected:** Fish Community + Water
SampleDate: 12/22/2016 **SurveyCrewChief:** KRW **SampleTime:** 02:05:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.7 **pH:** 8.32 **WaterTemp(°C):** 22.09 **SpecificConductivity (µS/cm):** 197 **Turbidity (NTU):** 2.79
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 300 **Avg.StreamWidth(m):** 10 **DistanceFished (m):** 150
SecondsFished: 1038 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .7 **TimeAtSite:** 02:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 77 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 16 **ChannelMorphologyScore (max20):** 16
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 7
GradientScore (max10): 10 **%Pool:** 30 **%Riffle:** 20 **%Run:** 50 **%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>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	18	5	%TolerantIndividuals:	21.79	5
DarterSpeciesCount:	5	5	%OmnivoreIndividuals:	8.97	5
SunfishSpeciesCount:	3	3	%InsectivoreIndividuals:	60.58	5
SuckerSpeciesCount:	3	3	%CarnivoreIndividuals:	0.32	1
SensitiveSpeciesCount:	5	3	Total # of Individuals (CPUE):	312	5
			%SimpleLithophilicInd.:	32.69	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
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SampleNumber: AB23927

EventID: 16T014

LSite: WEL-08-0018

County: Lawrence

StreamName: Little Salt Creek

LocationDescription: SR 446

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	6					
Bluntnose Minnow	27					
Central Stoneroller	64					
Creek Chub	30					
Fantail Darter	19					
Golden Redhorse	2					
Green Sunfish	6					
Greenside Darter	1					
Johnny Darter	36					
Largemouth Bass	1					
Longear Sunfish	7					
Northern Hog Sucker	4					
Orangethroat Darter	7					
Rainbow Darter	60					
Silverjaw Minnow	9					
Striped Shiner	28					
White Sucker	1					
Yellow Bullhead	4					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090060 **LSite:** WEL-08-0019
Site: Henderson Creek **Location:** Humpback Ridge Rd **County:** Lawrence
Latitude: 38.962038 **Longitude:** -86.367955 **IASNat Region:** 10B **Topo:** H-35 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 13.018 **Gradient (ft/mile):** 17.79

Sample Information

SampleNumber: AB23928 **EventID:** 16T015 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** KRW **SampleTime:** 12:20:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.21 **pH:** 8.07 **WaterTemp(°C):** 20.04 **SpecificConductivity (µS/cm):** 161 **Turbidity (NTU):** 3.2
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 300 **Avg.StreamWidth(m):** 9 **DistanceFished (m):** 135
SecondsFished: 1003 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .7 **TimeAtSite:** 01:20
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Did not include tributary confluence upstream/east of bridge; 55.5% catch Creek Chub

Habitat Information

TotalScore (max100): 82 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 17 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 10 **Riffle/RunQualityScore(max8):** 7
GradientScore (max10): 10 **%Pool:** **%Riffle:** **%Run:** **%Glide:** **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:	14	5	%TolerantIndividuals:	65.5	1
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	4.5	5
%HeadwaterIndividuals:	4	1	%InsectivoreIndividuals:	32.5	3
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	74	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	200	3
			%SimpleLithophilicInd.:	16.5	3
			%Ind.withDELT:	2	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)	34
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SampleNumber: AB23928

EventID: 16T015

LSite: WEL-08-0019

County: Lawrence

StreamName: Henderson Creek

LocationDescription: Humpback Ridge Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	21					
Central Stoneroller	10					
Creek Chub	111		1			
Fantail Darter	5					
Green Sunfish	10			1		
Johnny Darter	7					
Largemouth Bass	2					
Northern Hog Sucker	2					
Orangethroat Darter	10					
Rainbow Darter	5					
Southern Redbelly Dace	3					
Striped Shiner	4		1			
White Sucker	9			1		
Yellow Bullhead	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090050 **LSite:** WEL-08-0035
Site: Little Salt Creek **Location:** Unnamed County Rd off of Hunter Creek Rd **County:** Lawrence
Latitude: 38.983055 **Longitude:** -86.368749 **IASNat Region:** 10B **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 12.183 **Gradient (ft/mile):** 25.753

Sample Information

SampleNumber: AB23929 **EventID:** 16T016 **Sample Medium Collected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** KRW **SampleTime:** 10:25:00 AM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.86 **pH:** 8.09 **WaterTemp(°C):** 18.28 **SpecificConductivity (µS/cm):** 192 **Turbidity (NTU):** 3.03
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 300 **Avg.StreamWidth(m):** 9 **DistanceFished (m):** 135
SecondsFished: 1113 **WaterDepthAvg (m):** .05 **WaterDepthMax (m):** .1 **TimeAtSite:** 01:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 64 **SubstrateScore (max20):** 14 **InstreamCover Score (max20):** 10 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 4 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 8 **%Pool:** 15 **%Riffle:** 20 **%Run:** 65 **%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>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	11	3	%TolerantIndividuals:	36.68	3
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	6.53	5
%HeadwaterIndividuals:	4.02	1	%InsectivoreIndividuals:	42.21	3
MinnnowSpeciesCount:	5	3	%PioneerIndividuals:	83.92	1
SensitiveSpeciesCount:	3	3	Total # of Individuals (CPUE):	199	3
			%SimpleLithophilicInd.:	22.11	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
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SampleNumber: AB23929

EventID: 16T016

LSite: WEL-08-0035

County: Lawrence

StreamName: Little Salt Creek

LocationDescription: Unnamed County Rd off of Hunter Creek Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Redhorse	1					
Bluntnose Minnow	13					
Central Stoneroller	42					
Creek Chub	60					
Fantail Darter	8					
Johnny Darter	16					
Longear Sunfish	1					
Orangethroat Darter	21					
Rainbow Darter	9					
Silverjaw Minnow	15					
Striped Shiner	13					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090080 **LSite:** WEL-08-0021
Site: Little Salt Creek **Location:** Judah Legan Rd **County:** Lawrence
Latitude: 38.949813 **Longitude:** -86.479542 **IASNat Region:** 10A **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 52.705 **Gradient (ft/mile):** 0.702

Sample Information

SampleNumber: AB23930 **EventID:** 16T017 **Sample Medium Collected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** KAG **SampleTime:** 12:15:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 6.91 **pH:** 8.02 **WaterTemp(°C):** 20.96 **SpecificConductivity (µS/cm):** 196 **Turbidity (NTU):** 11.1
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 300 **Avg.StreamWidth(m):** 8 **DistanceFished (m):** 120
SecondsFished: 1446 **WaterDepthAvg (m):** 1 **WaterDepthMax (m):** 2.5 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: canoe w/1.5 system

Habitat Information

TotalScore (max100): 45 **SubstrateScore (max20):** 8 **InstreamCover Score (max20):** 13 **ChannelMorphologyScore (max20):** 11
RiparianZoneBankErosion Score(max10): 3 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 2 **%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: Interior Plateau

	<u>Actual</u>	<u>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	16	3	%TolerantIndividuals:	9.78	5
DarterSpeciesCount:	2	3	%OmnivoreIndividuals:	4.35	5
SunfishSpeciesCount:	5	5	%InsectivoreIndividuals:	92.39	5
SuckerSpeciesCount:	2	3	%CarnivoreIndividuals:	3.26	3
SensitiveSpeciesCount:	5	3	Total # of Individuals (CPUE):	92	1
			%SimpleLithophilicInd.:	20.65	3
			%Ind.withDELT:	1.09	3

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
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SampleNumber: AB23930

EventID: 16T017

LSite: WEL-08-0021

County: Lawrence

StreamName: Little Salt Creek

LocationDescription: Judah Legan Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Crappie	1					
Bluegill	26					
Bluntnose Minnow	4					
Dusky Darter	1					
Flathead Catfish	1					
Golden Redhorse	9					
Green Sunfish	4	1				
Johnny Darter	3					
Largemouth Bass	2					
Longear Sunfish	22					
Mimic Shiner	3					
Sand Shiner	4					
Spotfin Shiner	1					
Spotted Sucker	2					
Striped Shiner	7					
White Crappie	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090080 **LSite:** WEL-08-0022
Site: Knob Creek **Location:** Bat Hollow Rd **County:** Lawrence
Latitude: 38.955166 **Longitude:** -86.466322 **IASNat Region:** 10A **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 6.532 **Gradient (ft/mile):** 13.323

Sample Information

SampleNumber: AB23931 **EventID:** 16T018 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** KRW **SampleTime:** 12:18:00 PM **HydroLabNumber:** Q2
WaterFlowType: Pool **WaterAppearance:** Murky **SkyConditions:** 3 - Partly **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 7.85 **pH:** 8.22 **WaterTemp(°C):** 20.7 **SpecificConductivity (µS/cm):** 114 **Turbidity (NTU):** 3.77
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 350 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 946 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 67 **SubstrateScore (max20):** 12 **InstreamCover Score (max20):** 19 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 8 **%Pool:** 40 **%Riffle:** 15 **%Run:** 45 **%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:	18	5	%TolerantIndividuals:	32.39	3
Darter/Madtom/SculpinSpeciesCount:	3	5	%OmnivoreIndividuals:	11.97	5
%HeadwaterIndividuals:	1.41	1	%InsectivoreIndividuals:	60.21	5
MinnnowSpeciesCount:	6	3	%PioneerIndividuals:	59.51	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	284	5
			%SimpleLithophilicInd.:	37.32	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)	46
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SampleNumber: AB23931

EventID: 16T018

LSite: WEL-08-0022

County: Lawrence

StreamName: Knob Creek

LocationDescription: Bat Hollow Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Redhorse	1					
Blacknose Dace	2					
Bluntnose Minnow	33					
Central Stoneroller	33					
Creek Chub	43					
Fantail Darter	2					
Green Sunfish	7					
Johnny Darter	27					
Largemouth Bass	2					
Longear Sunfish	8					
Orangethroat Darter	10					
Silverjaw Minnow	10					
Striped Shiner	91					
Walleye	1					
Western Creek Chubsucker	6					
White Crappie	1					
White Sucker	1					
Yellow Bullhead	6					



Indiana Department of Environmental Management
Fish Community Assessments

Site Information

SubBasin: Lower East Fork White 14 digit HUC: 05120208090070 LSite: WEL-08-0023
 Site: Little Salt Creek Location: Bat Hollow Rd County: Lawrence
 Latitude: 38.949724 Longitude: -86.464368 IASNat Region: 10A Topo: H-34 Segment: 84
 Ecoregion: Interior Plateau Drainage Area (sq.miles): 44.753 Gradient (ft/mile): 0.703

Sample Information

SampleNumber: AB23932 EventID: 16T019 Sample MediumCollected: Fish Community + Water
 SampleDate: 08/22/2016 SurveyCrewChief: KAG SampleTime: 10:40:00 AM HydroLabNumber: MS1
 WaterFlowType: Run WaterAppearance: Murky SkyConditions: 1 - Clear AirTemperature: 4 - 61-75
 WindDirection: 27 - West (270 degrees) WindStrength: 0 - Calm
 DissolvedO2 (mg/l): 7.04 pH: 7.53 WaterTemp(°C): 20.91 SpecificConductivity (µS/cm): 204 Turbidity (NTU): 11.2
 SpecialNotes:

ElectrofishingEquipment: Longline Voltage: 300 Avg.StreamWidth(m): 9 DistanceFished (m): 135
 SecondsFished: 1116 WaterDepthAvg (m): .7 WaterDepthMax (m): 1 TimeAtSite: 02:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments:

Habitat Information

TotalScore (max100): 46 SubstrateScore (max20): 4 InstreamCover Score (max20): 9 ChannelMorphologyScore (max20): 11
 RiparianZoneBankErosion Score(max10): 5 Pool/GlideQualityScore(max12): 10 Riffle/RunQualityScore(max8): 5
 GradientScore (max10): 2 %Pool: 80 %Riffle: 10 %Run: 10 %Glide: 0 CanopyCover PctOpen: 30%-<55%
 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:	19	5	%TolerantIndividuals:	17.2	5
DarterSpeciesCount:	3	3	%OmnivoreIndividuals:	9.68	5
SunfishSpeciesCount:	5	5	%InsectivoreIndividuals:	83.87	5
SuckerSpeciesCount:	3	3	%CarnivoreIndividuals:	5.38	5
SensitiveSpeciesCount:	8	5	Total # of Individuals (CPUE):	93	1
			%SimpleLithophilicInd.:	32.26	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)	50
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SampleNumber: AB23932

EventID: 16T019

LSite: WEL-08-0023

County: Lawrence

StreamName: Little Salt Creek

LocationDescription: Bat Hollow Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Crappie	4					
Black Redhorse	1					
Blackside Darter	2					
Bluegill	13					
Bluntnose Minnow	8					
Brook Silverside	1					
Golden Redhorse	4					
Green Sunfish	5					
Johnny Darter	1					
Largemouth Bass	3					
Least Brook Lamprey	1					
Longear Sunfish	23					
Rainbow Darter	1					
Redfin Pickerel	1					
Rock Bass	1					
Rosyface Shiner	1					
Striped Shiner	20					
White Sucker	1					
Yellow Bullhead	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090070 **LSite:** WEL-08-0024
Site: Tributary of Little Salt Creek **Location:** Heltonville Bartlettville Rd **County:** Lawrence
Latitude: 38.966331 **Longitude:** -86.414807 **IASNat Region:** 10B **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 2.983 **Gradient (ft/mile):** 13.231

Sample Information

SampleNumber: AB23933 **EventID:** 16T020 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** KRW **SampleTime:** 10:48:00 AM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 6 **pH:** 7.9 **WaterTemp(°C):** 20.61 **SpecificConductivity (µS/cm):** 130 **Turbidity (NTU):**
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 765 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .7 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Could be an intermittent stream in dry periods

Habitat Information

TotalScore (max100): 71 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 19 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 3
GradientScore (max10): 8 **%Pool:** 25 **%Riffle:** 15 **%Run:** 60 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	11	3	%TolerantIndividuals:	61.68	1
Darter/Madtom/SculpinSpeciesCount:	1	3	%OmnivoreIndividuals:	14.02	5
%HeadwaterIndividuals:	0.93	1	%InsectivoreIndividuals:	31.78	3
MinnnowSpeciesCount:	6	3	%PioneerIndividuals:	79.44	1
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	107	1
			%SimpleLithophilicInd.:	19.63	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
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SampleNumber: AB23933

EventID: 16T020

LSite: WEL-08-0024

County: Lawrence

StreamName: Tributary of Little Salt Creek

LocationDescription: Heltonville Bartlettsville Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	1					
Bluntnose Minnow	15					
Central Stoneroller	9					
Creek Chub	48					
Green Sunfish	2					
Johnny Darter	6					
Largemouth Bass	1					
Northern Hog Sucker	1					
Silverjaw Minnow	1					
Striped Shiner	19					
Western Creek Chubsucker	4					



Indiana Department of Environmental Management Fish Community Assessments

Warning: Fish Data is not finalized (status is not "Approved"); IBI scores may not be final.

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090100 **LSite:** WEL-08-0025
Site: Gulletts Creek **Location:** Peerless Rd **County:** Lawrence
Latitude: 38.922246 **Longitude:** -86.518661 **IASNat Region:** 10A **Topo:** H-33 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 12.57 **Gradient (ft/mile):** 1.466

Sample Information

SampleNumber: AB23934 **EventID:** 16T021 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** KAG **SampleTime:** 03:40:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 8.96 **pH:** 7.84 **WaterTemp(°C):** 18.39 **SpecificConductivity (µS/cm):** 468 **Turbidity (NTU):** 7.69
SpecialNotes: Use Revisit (AB26888) for assessments.

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 60
SecondsFished: 1000 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Use revisit for assessment

Habitat Information

TotalScore (max100): 37 **SubstrateScore (max20):** 4 **InstreamCover Score (max20):** 9 **ChannelMorphologyScore (max20):** 8
RiparianZoneBankErosion Score(max10): 3 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 4 **%Pool:** **%Riffle:** **%Run:** **%Glide:** 100 **CanopyCover PctOpen:** <10%-Closed
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:	4	1	%TolerantIndividuals:	30.43	1
Darter/Madtom/SculpinSpeciesCount:	1	3	%OmnivoreIndividuals:	0	1
%HeadwaterIndividuals:	0	1	%InsectivoreIndividuals:	100	1
MinnnowSpeciesCount:	0	1	%PioneerIndividuals:	30.43	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	23	1
			%SimpleLithophilicInd.:	4.35	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)	16
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SampleNumber: AB23934

EventID: 16T021

LSite: WEL-08-0025

County: Lawrence

StreamName: Gulletts Creek

LocationDescription: Peerless Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	11					
Green Sunfish	7					
Logperch	1					
Longear Sunfish	4					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090090 **LSite:** WEL-08-0026
Site: Pleasant Run **Location:** Peerless Rd **County:** Lawrence
Latitude: 38.904146 **Longitude:** -86.491905 **IASNat Region:** 10A **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 9.067 **Gradient (ft/mile):** 7.446

Sample Information

SampleNumber: AB23935 **EventID:** 16T022 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/22/2016 **SurveyCrewChief:** KAG **SampleTime:** 02:00:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 18.13 **pH:** 8.11 **WaterTemp(°C):** 23.61 **SpecificConductivity (µS/cm):** 463 **Turbidity (NTU):** 4.16
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 250 **Avg.StreamWidth(m):** 10 **DistanceFished (m):** 150
SecondsFished: 795 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: canoe w/1.5 system

Habitat Information

TotalScore (max100): 68 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 12 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 6
GradientScore (max10): 6 **%Pool:** **%Riffle:** **%Run:** **%Glide:** **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:	14	5	%TolerantIndividuals:	25.11	3
Darter/Madtom/SculpinSpeciesCount:	2	3	%OmnivoreIndividuals:	2.24	5
%HeadwaterIndividuals:	0	1	%InsectivoreIndividuals:	86.55	5
MinnnowSpeciesCount:	3	3	%PioneerIndividuals:	24.22	3
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	223	3
			%SimpleLithophilicInd.:	12.56	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
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SampleNumber: AB23935

EventID: 16T022

LSite: WEL-08-0026

County: Lawrence

StreamName: Pleasant Run

LocationDescription: Peerless Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	29					
Bluegill	18					
Bluntnose Minnow	2					
Central Stoneroller	16					
Creek Chub	1					
Green Sunfish	29					
Largemouth Bass	8					
Longear Sunfish	7					
Orangespotted Sunfish	1					
Orangethroat Darter	6					
Rainbow Darter	19					
Western Mosquitofish	63					
White Sucker	3					
Yellow Bullhead	21					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090090 **LSite:** WEL-08-0027
Site: Salt Creek **Location:** Peerless Rd **County:** Lawrence
Latitude: 38.926794 **Longitude:** -86.507566 **IASNat Region:** 10A **Topo:** H-33 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 576.38 **Gradient (ft/mile):** 0.502

Sample Information

SampleNumber: AB23936 **EventID:** 16T023 **Sample Medium Collected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** KAG **SampleTime:** 12:30:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 6.4 **pH:** 7.71 **WaterTemp(°C):** 21.63 **SpecificConductivity (µS/cm):** 281 **Turbidity (NTU):** 18
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 250 **Avg.StreamWidth(m):** 25 **DistanceFished (m):** 375
SecondsFished: 3000 **WaterDepthAvg (m):** 2 **WaterDepthMax (m):** 3 **TimeAtSite:** 02:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 37 **SubstrateScore (max20):** 2 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 9
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 4 **%Pool:** 10/0 **%Riffle:** 0 **%Run:** 0 **%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>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	18	3	%TolerantIndividuals:	13.48	5
DarterSpeciesCount:	0	1	%OmnivoreIndividuals:	7.87	5
SunfishSpeciesCount:	4	5	%InsectivoreIndividuals:	82.02	5
SuckerSpeciesCount:	6	5	%CarnivoreIndividuals:	10.11	5
SensitiveSpeciesCount:	8	3	Total # of Individuals (CPUE):	89	1
			%SimpleLithophilicInd.:	6.74	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
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SampleNumber: AB23936

EventID: 16T023

LSite: WEL-08-0027

County: Lawrence

StreamName: Salt Creek

LocationDescription: Peerless Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Buffalo	1					
Black Redhorse	1					
Blackstripe Topminnow	1					
Bluegill	12					
Brook Silverside	1					
Channel Catfish	1					
Freshwater Drum	3					
Gizzard Shad	6					
Golden Redhorse	1					
Green Sunfish	2					
Longear Sunfish	25					
River Redhorse	1					
Rock Bass	2					
Shorthead Redhorse	1					
Smallmouth Bass	1					
Spotfin Shiner	23					
Spotted Bass	5					
Spotted Sucker	2					



Indiana Department of Environmental Management
Fish Community Assessments

Site Information

SubBasin: Lower East Fork White 14 digit HUC: 05120208090040 LSite: WEL-08-0034
 Site: Salt Creek Location: Guthrie Rd County: Lawrence
 Latitude: 38.977413 Longitude: -86.506206 IASNat Region: 10A Topo: H-33 Segment: 84
 Ecoregion: Interior Plateau Drainage Area (sq.miles): 510.326 Gradient (ft/mile): 0.502

Sample Information

SampleNumber: AB23937 EventID: 16T024 Sample MediumCollected: Fish Community + Water
 SampleDate: 08/23/2016 SurveyCrewChief: KAG SampleTime: 02:50:00 PM HydroLabNumber: MS 1
 WaterFlowType: Run WaterAppearance: Murky SkyConditions: 1 - Clear AirTemperature: 4 - 61-75
 WindDirection: 27 - West (270 degrees) WindStrength: 0 - Calm
 DissolvedO2 (mg/l): 7.05 pH: 7.81 WaterTemp(°C): 22.48 SpecificConductivity (µS/cm): 271 Turbidity (NTU): 14.7
 SpecialNotes:

ElectrofishingEquipment: Canoe Voltage: 250 Avg.StreamWidth(m): 20 DistanceFished (m): 300
 SecondsFished: 3000 WaterDepthAvg (m): 2 WaterDepthMax (m): 3 TimeAtSite: 02:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments:

Habitat Information

TotalScore (max100): 36 SubstrateScore (max20): 1 InstreamCover Score (max20): 8 ChannelMorphologyScore (max20): 10
 RiparianZoneBankErosion Score(max10): 4 Pool/GlideQualityScore(max12): 9 Riffle/RunQualityScore(max8): 0
 GradientScore (max10): 4 %Pool: 10/0 %Riffle: 0 %Run: 0 %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

	Actual Observation	Metric Score		Actual Observation	Metric Score
SpeciesCount:	19	3	%TolerantIndividuals:	20.99	5
DarterSpeciesCount:	1	1	%OmnivoreIndividuals:	8.64	5
SunfishSpeciesCount:	4	5	%InsectivoreIndividuals:	67.9	5
SuckerSpeciesCount:	4	5	%CarnivoreIndividuals:	23.46	5
SensitiveSpeciesCount:	6	3	Total # of Individuals (CPUE):	81	1
			%SimpleLithophilicInd.:	13.58	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
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SampleNumber: AB23937

EventID: 16T024

LSite: WEL-08-0034

County: Lawrence

StreamName: Salt Creek

LocationDescription: Guthrie Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Crappie	5					
Bluegill	10					
Channel Catfish	3					
Chestnut Lamprey	1					
Common Carp	1					
Freshwater Drum	5					
Gizzard Shad	6					
Golden Redhorse	5					
Largemouth Bass	5					
Longear Sunfish	10					
Rainbow Darter	1					
Rock Bass	1					
Shorthead Redhorse	1					
Smallmouth Bass	2					
Smallmouth Buffalo	2					
Spotfin Shiner	12					
Spotted Bass	6					
Spotted Sucker	4					
Striped Bass	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090040 **LSite:** WEL-08-0029
Site: Wolf Creek **Location:** Guthrie Rd **County:** Lawrence
Latitude: 38.976379 **Longitude:** -86.477849 **IASNat Region:** 10A **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 1.696 **Gradient (ft/mile):** 38.554

Sample Information

SampleNumber: AB23938 **EventID:** 16T025 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** KRW **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): 7.78 **pH:** 8.47 **WaterTemp(°C):** 21.02 **SpecificConductivity (µS/cm):** 230 **Turbidity (NTU):** 2.15
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 464 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .3 **TimeAtSite:** 01:15
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 55 **SubstrateScore (max20):** 15 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 4 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 8 **%Pool:** 15 **%Riffle:** 5 **%Run:** 80 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	5	1	%TolerantIndividuals:	52.19	1
Darter/Madtom/SculpinSpeciesCount:	1	3	%OmnivoreIndividuals:	0	5
%HeadwaterIndividuals:	7.46	1	%InsectivoreIndividuals:	25	3
MinnnowSpeciesCount:	3	3	%PioneerIndividuals:	92.54	1
SensitiveSpeciesCount:	0	1	Total # of Individuals (CPUE):	228	3
			%SimpleLithophilicInd.:	24.12	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
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SampleNumber: AB23938

EventID: 16T025

LSite: WEL-08-0029

County: Lawrence

StreamName: Wolf Creek

LocationDescription: Guthrie Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	17					
Central Stoneroller	71					
Creek Chub	100					
Green Sunfish	2					
Orangethroat Darter	38					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090120 **LSite:** WEL-08-0033
Site: Salt Creek **Location:** Old SR 450/Old Williams Rd **County:** Lawrence
Latitude: 38.838832 **Longitude:** -86.548991 **IASNat Region:** 10A **Topo:** H-56 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 627.267 **Gradient (ft/mile):** 0.471

Sample Information

SampleNumber: AB23939 **EventID:** 16T026 **Sample MediumCollected:** Fish Community + Water
SampleDate: 09/19/2016 **SurveyCrewChief:** KAG **SampleTime:** 01:15:00 PM **HydroLabNumber:** MS1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 2.93 **pH:** 7.25 **WaterTemp(°C):** 23.76 **SpecificConductivity (µS/cm):** 268 **Turbidity (NTU):** 7.86
SpecialNotes:

ElectrofishingEquipment: Boat **Voltage:** 500 **Avg.StreamWidth(m):** 29 **DistanceFished (m):** 435
SecondsFished: 3488 **WaterDepthAvg (m):** 2 **WaterDepthMax (m):** 3 **TimeAtSite:** 06:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 51 **SubstrateScore (max20):** 5 **InstreamCover Score (max20):** 11 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 9 **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>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	12	1	%TolerantIndividuals:	31.58	1
DarterSpeciesCount:	0	1	%OmnivoreIndividuals:	26.32	1
SunfishSpeciesCount:	2	3	%InsectivoreIndividuals:	65.79	1
SuckerSpeciesCount:	4	5	%CarnivoreIndividuals:	7.89	1
SensitiveSpeciesCount:	2	1	Total # of Individuals (CPUE):	38	1
			%SimpleLithophilicInd.:	5.26	1
			%Ind.withDELT:	5.26	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)	18
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SampleNumber: AB23939

EventID: 16T026

LSite: WEL-08-0033

County: Lawrence

StreamName: Salt Creek

LocationDescription: Old SR 450/Old Williams Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Buffalo	1					
Bluegill	5					
Channel Catfish	1		1			
Common Carp	1					
Freshwater Drum	1			1		
Gizzard Shad	8					
Golden Redhorse	1					
Longear Sunfish	10					
Smallmouth Buffalo	1					
Spotfin Shiner	6					
Spotted Bass	2					
Spotted Sucker	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090110 **LSite:** WEL-08-0031
Site: Goose Creek **Location:** Patton Hill Rd **County:** Lawrence
Latitude: 38.899811 **Longitude:** -86.532178 **IASNat Region:** 10A **Topo:** H-33 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 7.564 **Gradient (ft/mile):** 15.82

Sample Information

SampleNumber: AB23940 **EventID:** 16T027 **Sample Medium Collected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** KAG **SampleTime:** 11:00:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 9.79 **pH:** 7.94 **WaterTemp(°C):** 17.5 **SpecificConductivity (µS/cm):** 473 **Turbidity (NTU):** 13.8
SpecialNotes: Weird Limestone color.

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 7 **DistanceFished (m):** 105
SecondsFished: 608 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 70 **SubstrateScore (max20):** 14 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 9
RiparianZoneBankErosion Score(max10): 8 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 10 **%Pool:** 50 **%Riffle:** 10 **%Run:** 40 **%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:	9	3	%TolerantIndividuals:	10.48	5
Darter/Madtom/SculpinSpeciesCount:	5	5	%OmnivoreIndividuals:	0.95	5
%HeadwaterIndividuals:	18.1	3	%InsectivoreIndividuals:	89.52	5
MinnnowSpeciesCount:	2	1	%PioneerIndividuals:	29.52	3
SensitiveSpeciesCount:	3	3	Total # of Individuals (CPUE):	105	1
			%SimpleLithophilicInd.:	5.71	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
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SampleNumber: AB23940

EventID: 16T027

LSite: WEL-08-0031

County: Lawrence

StreamName: Goose Creek

LocationDescription: Patton Hill Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	1					
Bluntnose Minnow	1					
Creek Chub	10					
Fantail Darter	18					
Greenside Darter	1					
Johnny Darter	20					
Longear Sunfish	47					
Mottled Sculpin	1					
Rainbow Darter	6					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090110 **LSite:** WEL090-0003
Site: Salt Creek **Location:** Oolitic Rd **County:** Lawrence
Latitude: 38.888437 **Longitude:** -86.508611 **IASNat Region:** 10A **Topo:** H-33 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 603.506 **Gradient (ft/mile):** 0.502

Sample Information

SampleNumber: AB23941 **EventID:** 16T028 **Sample Medium Collected:** Fish Community + Water
SampleDate: 08/23/2016 **SurveyCrewChief:** KAG **SampleTime:** 09:00:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 6.24 **pH:** 7.68 **WaterTemp(°C):** 21.6 **SpecificConductivity (µS/cm):** 300 **Turbidity (NTU):** 14.1
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 300 **Avg.StreamWidth(m):** 22 **DistanceFished (m):** 330
SecondsFished: 3600 **WaterDepthAvg (m):** 2 **WaterDepthMax (m):** 3 **TimeAtSite:** 03:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 52 **SubstrateScore (max20):** 9 **InstreamCover Score (max20):** 11 **ChannelMorphologyScore (max20):** 11
RiparianZoneBankErosion Score(max10): 9 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 4 **%Pool:** 10/0 **%Riffle:** 0 **%Run:** 0 **%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>Metric</u>		<u>Actual</u>	<u>Metric</u>
	<u>Observation</u>	<u>Score</u>		<u>Observation</u>	<u>Score</u>
SpeciesCount:	15	3	%TolerantIndividuals:	8.79	5
DarterSpeciesCount:	0	1	%OmnivoreIndividuals:	1.1	5
SunfishSpeciesCount:	4	5	%InsectivoreIndividuals:	92.31	5
SuckerSpeciesCount:	5	5	%CarnivoreIndividuals:	6.59	3
SensitiveSpeciesCount:	4	1	Total # of Individuals (CPUE):	91	1
			%SimpleLithophilicInd.:	9.89	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
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SampleNumber: AB23941

EventID: 16T028

LSite: WEL090-0003

County: Lawrence

StreamName: Salt Creek

LocationDescription: Oolitic Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Redhorse	4					
Blackstripe Topminnow	2					
Bluegill	16					
Brook Silverside	2					
Flathead Catfish	1					
Golden Redhorse	2					
Green Sunfish	4					
Largemouth Bass	4					
Longear Sunfish	22					
River Carpsucker	1					
Smallmouth Buffalo	2					
Spotfin Shiner	25					
Spotted Sucker	3					
Warmouth	1					
Western Mosquitofish	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090100 **LSite:** WEL-08-0025
Site: Gulletts Creek **Location:** Peerless Rd **County:** Lawrence
Latitude: 38.922246 **Longitude:** -86.518661 **IASNat Region:** 10A **Topo:** H-33 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 12.57 **Gradient (ft/mile):** 1.466

Sample Information

SampleNumber: AB26888 **EventID:** 16T021.5 **Sample MediumCollected:** Fish Community + Water
SampleDate: 09/20/2016 **SurveyCrewChief:** KAG **SampleTime:** 02:10:00 PM **HydroLabNumber:** MS 1
WaterFlowType: Pool **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 7.55 **pH:** 7.54 **WaterTemp(°C):** 20.22 **SpecificConductivity (µS/cm):** 568 **Turbidity (NTU):**
SpecialNotes: Use for assessments.

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 90
SecondsFished: 961 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Use for assessments

Habitat Information

TotalScore (max100): 38 **SubstrateScore (max20):** 4 **InstreamCover Score (max20):** 13 **ChannelMorphologyScore (max20):** 6
RiparianZoneBankErosion Score(max10): 2 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 4 **%Pool:** 40 **%Riffle:** 0 **%Run:** 60 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
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:	10	3	%TolerantIndividuals:	41.82	3
Darter/Madtom/SculpinSpeciesCount:	5	5	%OmnivoreIndividuals:	0	5
%HeadwaterIndividuals:	1.82	1	%InsectivoreIndividuals:	90.91	5
MinnnowSpeciesCount:	0	1	%PioneerIndividuals:	45.45	3
SensitiveSpeciesCount:	5	5	Total # of Individuals (CPUE):	55	1
			%SimpleLithophilicInd.:	9.09	1
			%Ind.withDELT:	3.64	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)	34
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SampleNumber: AB26888

EventID: 16T021.5

LSite: WEL-08-0025

County: Lawrence

StreamName: Gulletts Creek

LocationDescription: Peerless Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	9			1		
Green Sunfish	23					
Greenside Darter	1					
Johnny Darter	2					
Largemouth Bass	1					
Logperch	3					
Longear Sunfish	9					
Mottled Sculpin	1					
Rainbow Darter	2					
Rock Bass	4			1		



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090010 **LSite:** WEL-08-0006
Site: Jackson Creek **Location:** S Rogers St **County:** Monroe
Latitude: 39.100208 **Longitude:** -86.538453 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 10.713 **Gradient (ft/mile):** 14.364

Sample Information

SampleNumber: AB26889 **EventID:** 16T002.5 **Sample Medium Collected:** Fish Community + Water
SampleDate: 09/21/2016 **SurveyCrewChief:** KAG **SampleTime:** 11:48:00 AM **HydroLabNumber:** MS1
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 9.33 **pH:** 7.87 **WaterTemp(°C):** 19.21 **SpecificConductivity (µS/cm):** 581 **Turbidity (NTU):** 2.24
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 90
SecondsFished: 720 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 60 **SubstrateScore (max20):** 12 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 7 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 10 **%Pool:** 20 **%Riffle:** 60 **%Run:** 20 **%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:	15	5	%TolerantIndividuals:	21.28	5
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	3.55	5
%HeadwaterIndividuals:	13.48	3	%InsectivoreIndividuals:	76.6	5
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	28.37	3
SensitiveSpeciesCount:	5	5	Total # of Individuals (CPUE):	141	3
			%SimpleLithophilicInd.:	44.68	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
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SampleNumber: AB26889

EventID: 16T002.5

LSite: WEL-08-0006

County: Monroe

StreamName: Jackson Creek

LocationDescription: S Rogers St

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	6					
Bluntnose Minnow	1					
Central Stoneroller	12					
Creek Chub	15					
Fantail Darter	19					
Green Sunfish	8					
Greenside Darter	3					
Longear Sunfish	11					
Northern Hog Sucker	5					
Orangethroat Darter	4					
Rainbow Darter	42					
Smallmouth Bass	1					
Striped Shiner	8					
White Sucker	4					
Yellow Bullhead	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090080 **LSite:** WEL-08-0022
Site: Knob Creek **Location:** Bat Hollow Rd **County:** Lawrence
Latitude: 38.955166 **Longitude:** -86.466322 **IASNat Region:** 10A **Topo:** H-34 **Segment:** 84
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 6.532 **Gradient (ft/mile):** 13.323

Sample Information

SampleNumber: AB26890 **EventID:** 16T018.5 **Sample MediumCollected:** Fish Community + Water
SampleDate: 09/21/2016 **SurveyCrewChief:** KAG **SampleTime:** 08:15:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Pool **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 5.95 **pH:** 7.61 **WaterTemp(°C):** 20.01 **SpecificConductivity (µS/cm):** 136 **Turbidity (NTU):** 12.3
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 4 **DistanceFished (m):** 60
SecondsFished: 419 **WaterDepthAvg (m):** .7 **WaterDepthMax (m):** 1.25 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 57 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 14 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 3 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 8 **%Pool:** **%Riffle:** **%Run:** **%Glide:** **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:	16	5	%TolerantIndividuals:	51.57	1
Darter/Madtom/SculpinSpeciesCount:	3	5	%OmnivoreIndividuals:	40.88	1
%HeadwaterIndividuals:	2.1	1	%InsectivoreIndividuals:	44.03	3
MinnnowSpeciesCount:	7	5	%PioneerIndividuals:	69.6	1
SensitiveSpeciesCount:	3	3	Total # of Individuals (CPUE):	477	5
			%SimpleLithophilicInd.:	26	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
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SampleNumber: AB26890

EventID: 16T018.5

LSite: WEL-08-0022

County: Lawrence

StreamName: Knob Creek

LocationDescription: Bat Hollow Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bigeye Shiner	1					
Blacknose Dace	1					
Bluegill	4					
Bluntnose Minnow	195					
Central Stoneroller	30					
Creek Chub	42					
Fantail Darter	9					
Golden Redhorse	1					
Green Sunfish	6					
Johnny Darter	31					
Longear Sunfish	11					
Orangethroat Darter	5					
Silverjaw Minnow	16					
Striped Shiner	116					
Western Creek Chubsucker	7					
Yellow Bullhead	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208090030 **LSite:** WEL-08-0017
Site: Little Clear Creek **Location:** E Monroe Dam Rd **County:** Monroe
Latitude: 39.021444 **Longitude:** -86.530706 **IASNat Region:** 10A **Topo:** H-10 **Segment:** 75
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 5.702 **Gradient (ft/mile):** 17.937

Sample Information

SampleNumber: AB27736 **EventID:** 16T013.5 **Sample Medium Collected:** Fish Community + Water
SampleDate: 09/21/2016 **SurveyCrewChief:** KAG **SampleTime:** 10:15:00 AM **HydroLabNumber:** MS 1
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 6.74 **pH:** 7.51 **WaterTemp(°C):** 19.18 **SpecificConductivity (µS/cm):** 460 **Turbidity (NTU):** 6.02
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 150 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 586 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .75 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Tributary of Salt Cr, Monroe Dam Rd AB27736, 21 Sept 2016 KAG, SO, TF, JRS.

Habitat Information

TotalScore (max100): 69 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 14 **ChannelMorphologyScore (max20):** 15
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 10 **%Pool:** 30 **%Riffle:** 20 **%Run:** 50 **%Glide:** **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:	32	3
Darter/Madtom/SculpinSpeciesCount:	4	5	%OmnivoreIndividuals:	3.2	5
%HeadwaterIndividuals:	7.2	1	%InsectivoreIndividuals:	47.2	3
MinnnowSpeciesCount:	6	3	%PioneerIndividuals:	58.4	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	125	3
			%SimpleLithophilicInd.:	43.2	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)	40
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SampleNumber: AB27736

EventID: 16T013.5

LSite: WEL-08-0017

County: Monroe

StreamName: Little Clear Creek

LocationDescription: E Monroe Dam Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blacknose Dace	2					
Central Stoneroller	24					
Creek Chub	34					
Fantail Darter	3					
Johnny Darter	6					
Longear Sunfish	1					
Orangethroat Darter	6					
Rainbow Darter	35					
Silverjaw Minnow	3					
Southern Redbelly Dace	4					
Striped Shiner	3					
White Sucker	4					