



Indiana Department of Environmental Management
Fish Community Assessments

Site Information

SubBasin: Lower East Fork White 14 digit HUC: 05120208140040 LSite: WEL-14-0003
 Site: East Fork White River Location: CR 3 (Abel Hill Rd) County: Martin
 Latitude: 38.541187 Longitude: -86.817692 IASNat Region: 9A Topo: I-29 Segment: 85
 Ecoregion: Interior Plateau Drainage Area (sq.miles): 5168.449 Gradient (ft/mile): 0.835

Sample Information

SampleNumber: AB31592 EventID: 18T001 Sample MediumCollected: Fish Community + Water + Macro
 SampleDate: 08/14/2018 SurveyCrewChief: KAG SampleTime: 10:45:00 AM HydroLabNumber: P4
 WaterFlowType: Run WaterAppearance: Murky SkyConditions: 1 - Clear AirTemperature: 5 - 76-85
 WindDirection: 27 - West (270 degrees) WindStrength: 0 - Calm
 DissolvedO2 (mg/l): 6.92 pH: 8.12 WaterTemp(°C): 27 SpecificConductivity (µS/cm): 448.8 Turbidity (NTU): 30.2
 SpecialNotes:

ElectrofishingEquipment: Boat Voltage: 354 Avg.StreamWidth(m): 80 DistanceFished (m): 500
 SecondsFished: 3706 WaterDepthAvg (m): 1 WaterDepthMax (m): 2 TimeAtSite: 08:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments: 2ms

Habitat Information

TotalScore (max100): 60 SubstrateScore (max20): 10 InstreamCover Score (max20): 14 ChannelMorphologyScore (max20): 13
 RiparianZoneBankErosion Score(max10): 5 Pool/GlideQualityScore(max12): 10 Riffle/RunQualityScore(max8): 0
 GradientScore (max10): 8 %Pool: 30 %Riffle: 0 %Run: 70 %Glide: 0 CanopyCover PctOpen: 55%-<85%
 SubjectiveRating: AestheticRating: NOTES: "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: WHITE

	Actual Observation	Metric Score		Actual Observation	Metric Score
SpeciesCount:	18	3	%TolerantIndividuals:	66.13	1
%LargeRiverIndividuals:	56.45	1	%OmnivoreIndividuals:	17.74	1
CentrarchidaeSpeciesCount:	4	3	%InsectivoreIndividuals:	51.61	1
RoundBodySuckerSpeciesCount:	1	1	%CarnivoreIndividuals:	30.65	1
SensitiveSpeciesCount:	2	1	CPUElessGizzardShads:	62	1
			%SimpleLithophilicInd.:	1.61	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: AB31592

EventID: 18T001

LSite: WEL-14-0003

County: Martin

StreamName: East Fork White River

LocationDescription: CR 3 (Abel Hill Rd)

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bigmouth Buffalo	3					
Black Buffalo	2					
Black Crappie	1					
Blue Sucker	1					
Bluegill	2					
Channel Catfish	1					
Common Carp	4					
Emerald Shiner	3					
Flathead Catfish	11					
Freshwater Drum	1					
Gizzard Shad	2					
Longear Sunfish	4					
Longnose Gar	3					
River Carpsucker	5					
Shortnose Gar	1					
Smallmouth Buffalo	12					
Spotfin Shiner	5					
Spotted Bass	3					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170040 **LSite:** WEL-15-0010
Site: East Fork White River **Location:** CR 1100 E **County:** Dubois
Latitude: 38.502494 **Longitude:** -86.973780 **IASNat Region:** 8 **Topo:** I-28 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 5596.653 **Gradient (ft/mile):** 0.486

Sample Information

SampleNumber: AB31598 **EventID:** 18T007 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 08/15/2018 **SurveyCrewChief:** KAG **SampleTime:** 09:20:00 AM **HydroLabNumber:** P4
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 4 - Cloudy **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 7.33 **pH:** 8.22 **WaterTemp(°C):** 27.6 **SpecificConductivity (µS/cm):** 454.7 **Turbidity (NTU):** 33.7
SpecialNotes:

ElectrofishingEquipment: Boat **Voltage:** 354 **Avg.StreamWidth(m):** 88 **DistanceFished (m):** 500
SecondsFished: 3731 **WaterDepthAvg (m):** 1.5 **WaterDepthMax (m):** 2.5 **TimeAtSite:** 05:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 61 **SubstrateScore (max20):** 11 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 14
RiparianZoneBankErosion Score(max10): 5 **Pool/GlideQualityScore(max12):** 10 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 6 **%Pool:** **%Riffle:** **%Run:** **%Glide:** 0 **CanopyCover PctOpen:** 30%-<55%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: WHITE

	<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:	22	3	%TolerantIndividuals:	50	3
%LargeRiverIndividuals:	53.85	5	%OmnivoreIndividuals:	17.31	5
CentrarchidaeSpeciesCount:	2	1	%InsectivoreIndividuals:	49.04	3
RoundBodySuckerSpeciesCount:	3	3	%CarnivoreIndividuals:	32.69	5
SensitiveSpeciesCount:	4	3	CPUElessGizzardShads:	104	1
			%SimpleLithophilicInd.:	5.77	1
			%Ind.withDELT:	0	5

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

Total IBI Score (min 0, max 60)	38
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SampleNumber: AB31598

EventID: 18T007

LSite: WEL-15-0010

County: Dubois

StreamName: East Fork White River

LocationDescription: CR 1100 E

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Black Buffalo	1					
Blue Sucker	1					
Bluntnose Minnow	1					
Bullhead Minnow	8					
Channel Catfish	6					
Common Carp	6					
Emerald Shiner	11					
Flathead Catfish	10					
Freshwater Drum	3					
Gizzard Shad	5					
Golden Redhorse	2					
Grass Carp	1					
Longear Sunfish	9					
Longnose Gar	1					
River Carpsucker	9					
Sauger	1					
Shorthead Redhorse	2					
Shortnose Gar	3					
Silver Carp	1					
Smallmouth Buffalo	11					
Spotfin Shiner	4					
Spotted Bass	13					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170090 **LSite:** WEL-15-0020
Site: East Fork White River **Location:** SR 57 **County:** Pike
Latitude: 38.538808 **Longitude:** -87.223105 **IASNat Region:** 8 **Topo:** I-26 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 5740.802 **Gradient (ft/mile):** 1.031

Sample Information

SampleNumber: AB31609 **EventID:** 18T018 **Sample MediumCollected:** Fish Community + Water + Macro
SampleDate: 08/13/2018 **SurveyCrewChief:** KAG **SampleTime:** 01:15:00 PM **HydroLabNumber:** P4
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 2 - Scattered **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 10.98 **pH:** 8.49 **WaterTemp(°C):** 27.7 **SpecificConductivity (µS/cm):** 447.9 **Turbidity (NTU):** 27.2
SpecialNotes:

ElectrofishingEquipment: Boat **Voltage:** 177 **Avg.StreamWidth(m):** 110 **DistanceFished (m):** 500
SecondsFished: 3600 **WaterDepthAvg (m):** 1.25 **WaterDepthMax (m):** 2.5 **TimeAtSite:** 06:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 4ms

Habitat Information

TotalScore (max100): 54 **SubstrateScore (max20):** 11 **InstreamCover Score (max20):** 9 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 9 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 8 **%Pool:** 20 **%Riffle:** 0 **%Run:** 80 **%Glide:** 0 **CanopyCover PctOpen:**
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: WHITE

	<u>Actual</u> <u>Observation</u>	<u>Metric</u> <u>Score</u>		<u>Actual</u> <u>Observation</u>	<u>Metric</u> <u>Score</u>
SpeciesCount:	17	3	%TolerantIndividuals:	77.78	1
%LargeRiverIndividuals:	33.33	1	%OmnivoreIndividuals:	42.59	1
CentrarchidaeSpeciesCount:	3	3	%InsectivoreIndividuals:	27.78	1
RoundBodySuckerSpeciesCount:	1	1	%CarnivoreIndividuals:	29.63	1
SensitiveSpeciesCount:	1	1	CPUElessGizzardShads:	54	1
			%SimpleLithophilicInd.:	1.85	1
			%Ind.withDELT:	1.85	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: AB31609

EventID: 18T018

LSite: WEL-15-0020

County: Pike

StreamName: East Fork White River

LocationDescription: SR 57

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	1					
Bullhead Minnow	1					
Channel Catfish	1					
Common Carp	16					
Emerald Shiner	1					
Flathead Catfish	4					
Freshwater Drum	2					
Gizzard Shad	7					
Golden Redhorse	1					
Green Sunfish	1					
Largemouth Bass	1					
Longnose Gar	2					
Quillback	1			1		
River Carpsucker	6					
Shortnose Gar	8					
Smallmouth Buffalo	1					
Spotfin Shiner	7					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170030 **LSite:** WEL-15-0008
Site: Slate Creek **Location:** CR 22 **County:** Martin
Latitude: 38.537279 **Longitude:** -86.904546 **IASNat Region:** 9A **Topo:** I-28 **Segment:** 85
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 4.006 **Gradient (ft/mile):** 14.167

Sample Information

SampleNumber: AB33145 **EventID:** 18T002 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KRW **SampleTime:** 03:20:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Brown **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 8.05 **pH:** 7.06 **WaterTemp(°C):** 28.73 **SpecificConductivity (µS/cm):** 902 **Turbidity (NTU):** 22.8
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 126 **Avg.StreamWidth(m):** 8 **DistanceFished (m):** 120
SecondsFished: 538 **WaterDepthAvg (m):** .4 **WaterDepthMax (m):** .6 **TimeAtSite:** 01:15
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 52 **SubstrateScore (max20):** 12 **InstreamCover Score (max20):** 9 **ChannelMorphologyScore (max20):** 9
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 6 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 8 **%Pool:** 25 **%Riffle:** 10 **%Run:** 65 **%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:	16	5	%TolerantIndividuals:	30.6	3
Darter/Madtom/SculpinSpeciesCount:	3	5	%OmnivoreIndividuals:	4.74	5
%HeadwaterIndividuals:	0	1	%InsectivoreIndividuals:	64.66	5
MinnnowSpeciesCount:	5	3	%PioneerIndividuals:	87.07	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	232	3
			%SimpleLithophilicInd.:	23.71	3
			%Ind.withDELT:	0.43	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)	40
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SampleNumber: AB33145

EventID: 18T002

LSite: WEL-15-0008

County: Martin

StreamName: Slate Creek

LocationDescription: CR 22

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	14					
Bluegill	2					
Bluntnose Minnow	5					
Central Stoneroller	53					
Creek Chub	18					
Green Sunfish	40					
Johnny Darter	38					
Longear Sunfish	1					
Orangethroat Darter	47					
Pirate Perch	2					
Rainbow Darter	1					
Redfin Shiner	1					
Suckermouth Minnow	1					
Western Creek Chubsucker	1					
White Sucker	6			1		
Yellow Bullhead	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170030 **LSite:** WEL-15-0021
Site: Tributary of Slate Cr **Location:** CR 800 S **County:** Daviess
Latitude: 38.539549 **Longitude:** -86.932511 **IASNat Region:** 9A **Topo:** I-28 **Segment:** 85
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 2.742 **Gradient (ft/mile):** 4.554

Sample Information

SampleNumber: AB33146 **EventID:** 18T003 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KRW **SampleTime:** 02:10:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 5.71 **pH:** 8.14 **WaterTemp(°C):** 28.77 **SpecificConductivity (µS/cm):** 319 **Turbidity (NTU):** 10.6
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 215 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 304 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .4 **TimeAtSite:** 00:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 26 **SubstrateScore (max20):** 5 **InstreamCover Score (max20):** 4 **ChannelMorphologyScore (max20):** 8
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 1 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 4 **%Pool:** 25 **%Riffle:** 0 **%Run:** 75 **%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:	9	3	%TolerantIndividuals:	36.17	3
Darter/Madtom/SculpinSpeciesCount:	0	1	%OmnivoreIndividuals:	4.26	5
%HeadwaterIndividuals:	0	1	%InsectivoreIndividuals:	61.7	5
MinnnowSpeciesCount:	3	3	%PioneerIndividuals:	55.32	1
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	47	1
			%SimpleLithophilicInd.:	0	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)	30
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SampleNumber: AB33146

EventID: 18T003

LSite: WEL-15-0021

County: Daviess

StreamName: Tributary of Slate Cr

LocationDescription: CR 800 S

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	6					
Bluntnose Minnow	2					
Central Stoneroller	10					
Creek Chub	5					
Green Sunfish	9					
Largemouth Bass	1					
Longear Sunfish	4					
Western Mosquitofish	9					
Yellow Bullhead	1					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170030 **LSite:** WEL-15-0007
Site: Slate Creek **Location:** CR 1250 E **County:** Daviess
Latitude: 38.512501 **Longitude:** -86.933350 **IASNat Region:** 9A **Topo:** I-28 **Segment:** 85
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 17.403 **Gradient (ft/mile):** 4.577

Sample Information

SampleNumber: AB33147 **EventID:** 18T004 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/25/2018 **SurveyCrewChief:** KRW **SampleTime:** 09:05:00 AM **HydroLabNumber:** Q2
WaterFlowType: Glide **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 3.34 **pH:** 7.84 **WaterTemp(°C):** 23.03 **SpecificConductivity (µS/cm):** 769 **Turbidity (NTU):** 8.96
SpecialNotes:

ElectrofishingEquipment: Canoe **Voltage:** 230 **Avg.StreamWidth(m):** 10 **DistanceFished (m):** 150
SecondsFished: 1205 **WaterDepthAvg (m):** 1 **WaterDepthMax (m):** 2 **TimeAtSite:** 02:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: Deep pools-netted out of front w/anode 3/4 of reach; bowfin escaped livewell - length/weight estimated

Habitat Information

TotalScore (max100): 48 **SubstrateScore (max20):** 5 **InstreamCover Score (max20):** 12 **ChannelMorphologyScore (max20):** 13
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 6 **%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:	12	3	%TolerantIndividuals:	40.23	3
Darter/Madtom/SculpinSpeciesCount:	3	5	%OmnivoreIndividuals:	31.03	3
%HeadwaterIndividuals:	0	1	%InsectivoreIndividuals:	67.82	5
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	42.53	3
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	87	1
			%SimpleLithophilicInd.:	2.3	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)	34
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SampleNumber: AB33147

EventID: 18T004

LSite: WEL-15-0007

County: Daviess

StreamName: Slate Creek

LocationDescription: CR 1250 E

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	4					
Bluntnose Minnow	27					
Bowfin	1					
Green Sunfish	4					
Johnny Darter	3					
Longear Sunfish	38					
Orangethroat Darter	2					
Silverjaw Minnow	1					
Slough Darter	1					
Spotfin Shiner	1					
Steelcolor Shiner	1					
Yellow Bullhead	4					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170020 **LSite:** WEL-15-0011
Site: Mill Creek **Location:** N Portersville Rd **County:** Dubois
Latitude: 38.444627 **Longitude:** -86.957264 **IASNat Region:** 7C **Topo:** I-48 **Segment:** 54
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 4.329 **Gradient (ft/mile):** 5.227

Sample Information

SampleNumber: AB33148 **EventID:** 18T005 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KAG **SampleTime:** 10:30:00 AM **HydroLabNumber:** P4
WaterFlowType: Pool **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 6.17 **pH:** 7.81 **WaterTemp(°C):** 23 **SpecificConductivity (µS/cm):** 337 **Turbidity (NTU):** 4.8
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 4 **DistanceFished (m):** 60
SecondsFished: 284 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** .5 **TimeAtSite:** 00:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 46 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 9
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 6 **%Pool:** 50 **%Riffle:** 0 **%Run:** 0 **%Glide:** 50 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<u>Actual</u> <u>Observation</u>	<u>Metric</u> <u>Score</u>		<u>Actual</u> <u>Observation</u>	<u>Metric</u> <u>Score</u>
SpeciesCount:	12	5	%TolerantIndividuals:	26.26	3
SunfishSpeciesCount:	2	3	%OmnivoreIndividuals:	14.14	5
MinnnowSpeciesCount:	5	5	%InsectivoreIndividuals:	66.67	5
SuckerSpeciesCount:	0	1	%PioneerIndividuals:	51.52	3
SensitiveSpeciesCount:	1	5	Total # of Individuals (CPUE):	99	1
			%SimpleLithophilicInd.:	18.18	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: AB33148

EventID: 18T005

LSite: WEL-15-0011

County: Dubois

StreamName: Mill Creek

LocationDescription: N Portersville Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	3					
Central Mudminnow	4					
Central Stoneroller	13					
Creek Chub	6					
Green Sunfish	9					
Johnny Darter	23					
Longear Sunfish	11					
Mississippi Silvery Minnow	14					
Spotfin Shiner	3					
Striped Shiner	4					
Western Mosquitofish	2					
Yellow Bullhead	7					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170020 **LSite:** WEL-15-0012
Site: Mill Creek **Location:** CR 700 N **County:** Dubois
Latitude: 38.481206 **Longitude:** -86.953242 **IASNat Region:** 7C **Topo:** I-48 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 18.362 **Gradient (ft/mile):** 9.95

Sample Information

SampleNumber: AB33149 **EventID:** 18T006 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/25/2018 **SurveyCrewChief:** KRW **SampleTime:** 11:40:00 AM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 7.9 **pH:** 8.2 **WaterTemp(°C):** 23.52 **SpecificConductivity (µS/cm):** 274 **Turbidity (NTU):** 16
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 195 **Avg.StreamWidth(m):** 9 **DistanceFished (m):** 135
SecondsFished: 810 **WaterDepthAvg (m):** .3 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 60 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 9 **ChannelMorphologyScore (max20):** 12
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 10 **%Pool:** 25 **%Riffle:** 10 **%Run:** 65 **%Glide:** 0 **CanopyCover PctOpen:** 55%-<85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	12.34	5
SunfishSpeciesCount:	3	3	%OmnivoreIndividuals:	6.49	5
MinnnowSpeciesCount:	9	5	%InsectivoreIndividuals:	88.96	5
SuckerSpeciesCount:	1	1	%PioneerIndividuals:	50	3
SensitiveSpeciesCount:	4	5	Total # of Individuals (CPUE):	154	3
			%SimpleLithophilicInd.:	4.55	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)	46
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SampleNumber: AB33149

EventID: 18T006

LSite: WEL-15-0012

County: Dubois

StreamName: Mill Creek

LocationDescription: CR 700 N

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	1					
Bluegill	3					
Bluntnose Minnow	10					
Central Stoneroller	2					
Creek Chub	1					
Green Sunfish	3					
Johnny Darter	53					
Longear Sunfish	6					
Northern Hog Sucker	1					
Orangethroat Darter	2					
Rainbow Darter	1					
Sand Shiner	3					
Silverjaw Minnow	6					
Spotfin Shiner	38					
Spotted Bass	4					
Steelcolor Shiner	12					
Striped Shiner	1					
Suckermouth Minnow	2					
Yellow Bullhead	5					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170040 **LSite:** WEL-15-0018
Site: Sugar Cr **Location:** CR 600 S **County:** Daviess
Latitude: 38.567498 **Longitude:** -86.960309 **IASNat Region:** 7B **Topo:** I-28 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 6.348 **Gradient (ft/mile):** 13.396

Sample Information

SampleNumber: AB33151 **EventID:** 18T008 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KRW **SampleTime:** 11:40:00 AM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 6.15 **pH:** 7.88 **WaterTemp(°C):** 22.45 **SpecificConductivity (µS/cm):** 491 **Turbidity (NTU):** 3.23
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 180 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 725 **WaterDepthAvg (m):** .2 **WaterDepthMax (m):** .3 **TimeAtSite:** 00:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 57 **SubstrateScore (max20):** 18 **InstreamCover Score (max20):** 3 **ChannelMorphologyScore (max20):** 17
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 4 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 8 **%Pool:** 30 **%Riffle:** 20 **%Run:** 50 **%Glide:** 0. **CanopyCover PctOpen:** 30%-<55%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	8	5	%TolerantIndividuals:	36.02	3
SunfishSpeciesCount:	0	1	%OmnivoreIndividuals:	12.71	5
MinnnowSpeciesCount:	4	3	%InsectivoreIndividuals:	21.19	1
SuckerSpeciesCount:	1	1	%PioneerIndividuals:	80.93	1
SensitiveSpeciesCount:	0	1	Total # of Individuals (CPUE):	236	5
			%SimpleLithophilicInd.:	16.95	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)	34
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SampleNumber: AB33151

EventID: 18T008

LSite: WEL-15-0018

County: Daviess

StreamName: Sugar Cr

LocationDescription: CR 600 S

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Central Stoneroller	99					
Creek Chub	55					
Johnny Darter	31					
Silverjaw Minnow	6					
Spotted Bass	2					
Suckermouth Minnow	10					
Tadpole Madtom	3					
White Sucker	30					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170040 **LSite:** WEL-15-0022
Site: West Fork Sugar Creek **Location:** CR 700 S **County:** Daviess
Latitude: 38.554222 **Longitude:** -86.992748 **IASNat Region:** 7B **Topo:** I-28 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 4.949 **Gradient (ft/mile):** 9.747

Sample Information

SampleNumber: AB33152 **EventID:** 18T009 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KRW **SampleTime:** 12:45:00 PM **HydroLabNumber:** Q2
WaterFlowType: Run **WaterAppearance:** Murky **SkyConditions:** 3 - Partly **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 5.8 **pH:** 8 **WaterTemp(°C):** 23.34 **SpecificConductivity (µS/cm):** 1245 **Turbidity (NTU):** 7.6
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 120 **Avg.StreamWidth(m):** 6 **DistanceFished (m):** 90
SecondsFished: 560 **WaterDepthAvg (m):** .4 **WaterDepthMax (m):** .5 **TimeAtSite:** 00:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 47 **SubstrateScore (max20):** 11 **InstreamCover Score (max20):** 10 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 4 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 6 **%Pool:** 30 **%Riffle:** 0 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** 55%-<85%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	20.79	5
SunfishSpeciesCount:	3	3	%OmnivoreIndividuals:	6.93	5
MinnnowSpeciesCount:	7	5	%InsectivoreIndividuals:	72.77	5
SuckerSpeciesCount:	1	1	%PioneerIndividuals:	78.22	1
SensitiveSpeciesCount:	2	5	Total # of Individuals (CPUE):	202	5
			%SimpleLithophilicInd.:	1.49	1
			%Ind.withDELT:	0.99	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: AB33152

EventID: 18T009

LSite: WEL-15-0022

County: Daviess

StreamName: West Fork Sugar Creek

LocationDescription: CR 700 S

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	5	1				
Bluegill	26					
Bluntnose Minnow	11					
Central Stoneroller	24			1		
Creek Chub	17					
Green Sunfish	7					
Johnny Darter	15					
Longear Sunfish	2					
Sand Shiner	1					
Silverjaw Minnow	84					
Spotfin Shiner	1					
Steelcolor Shiner	2					
White Sucker	3					
Yellow Bullhead	4					



Indiana Department of Environmental Management
Fish Community Assessments

Site Information

SubBasin: Lower East Fork White 14 digit HUC: 05120208170040 LSite: WEL-15-0009
 Site: Sugar Cr Location: CR 900 S County: Daviess
 Latitude: 38.524991 Longitude: -86.976016 IASNat Region: 8 Topo: I-28 Segment: 85
 Ecoregion: Interior River Lowland Drainage Area (sq.miles): 17.048 Gradient (ft/mile): 4.96

Sample Information

SampleNumber: AB33153 EventID: 18T010 Sample MediumCollected: Fish Community + Water
 SampleDate: 07/25/2018 SurveyCrewChief: KRW SampleTime: 01:15:00 PM HydroLabNumber: Q2
 WaterFlowType: Pool WaterAppearance: Clear SkyConditions: 1 - Clear AirTemperature: 6 - > 86
 WindDirection: 27 - West (270 degrees) WindStrength: 1 - Light
 DissolvedO2 (mg/l): 7.01 pH: 7.87 WaterTemp(°C): 26.74 SpecificConductivity (µS/cm): 603 Turbidity (NTU): 14.6
 SpecialNotes:

ElectrofishingEquipment: Backpack Voltage: 195 Avg.StreamWidth(m): 4 DistanceFished (m): 60
 SecondsFished: 1410 WaterDepthAvg (m): .3 WaterDepthMax (m): .5 TimeAtSite: 01:00
 BridgeInReach: ReachRepresentative: WhyReachNotRepresentative:
 SpecialComments:

Habitat Information

TotalScore (max100): 51 SubstrateScore (max20): 13 InstreamCover Score (max20): 5 ChannelMorphologyScore (max20): 11
 RiparianZoneBankErosion Score(max10): 6 Pool/GlideQualityScore(max12): 6 Riffle/RunQualityScore(max8): 4
 GradientScore (max10): 6 %Pool: 30 %Riffle: 10 %Run: 60 %Glide: 0 CanopyCover PctOpen: 30%-<55%
 SubjectiveRating: AestheticRating: NOTES: "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	20.51	5
SunfishSpeciesCount:	3	3	%OmnivoreIndividuals:	14.87	5
MinnnowSpeciesCount:	8	5	%InsectivoreIndividuals:	71.79	5
SuckerSpeciesCount:	1	1	%PioneerIndividuals:	56.92	3
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	195	3
			%SimpleLithophilicInd.:	5.64	1
			%Ind.withDELT:	0	5

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

Total IBI Score (min 0, max 60)	42
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SampleNumber: AB33153

EventID: 18T010

LSite: WEL-15-0009

County: Daviess

StreamName: Sugar Cr

LocationDescription: CR 900 S

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	5					
Bluegill	18					
Bluntnose Minnow	22					
Central Stoneroller	6					
Channel Catfish	3					
Creek Chub	8					
Green Sunfish	1					
Johnny Darter	55					
Largemouth Bass	8					
Longear Sunfish	13					
Mississippi Silvery Minnow	7					
Silverjaw Minnow	19					
Spotfin Shiner	19					
Spotted Bass	1					
Spotted Sucker	1					
Striped Shiner	1					
Suckermouth Minnow	2					
Yellow Bullhead	6					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170050 **LSite:** WEL-15-0013
Site: Birch Creek **Location:** CR 460 N **County:** Dubois
Latitude: 38.446329 **Longitude:** -87.019276 **IASNat Region:** 7C **Topo:** I-47 **Segment:** 54
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 5.169 **Gradient (ft/mile):** 3.792

Sample Information

SampleNumber: AB33154 **EventID:** 18T011 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KAG **SampleTime:** 11:30:00 AM **HydroLabNumber:** P4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 4 - Cloudy **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 2 - Mod./Light
DissolvedO2 (mg/l): 11.21 **pH:** 8.27 **WaterTemp(°C):** 21 **SpecificConductivity (µS/cm):** 360 **Turbidity (NTU):** 10.8
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 483 **WaterDepthAvg (m):** .1 **WaterDepthMax (m):** .2 **TimeAtSite:** 00:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 32 **SubstrateScore (max20):** 4 **InstreamCover Score (max20):** 6 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 3 **Pool/GlideQualityScore(max12):** 5 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 4 **%Pool:** 20 **%Riffle:** 0 **%Run:** 0 **%Glide:** 80 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	8	5	%TolerantIndividuals:	24.88	5
SunfishSpeciesCount:	2	3	%OmnivoreIndividuals:	0.5	5
MinnnowSpeciesCount:	2	3	%InsectivoreIndividuals:	99.5	5
SuckerSpeciesCount:	0	1	%PioneerIndividuals:	81.59	1
SensitiveSpeciesCount:	0	1	Total # of Individuals (CPUE):	201	5
			%SimpleLithophilicInd.:	0	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: AB33154

EventID: 18T011

LSite: WEL-15-0013

County: Dubois

StreamName: Birch Creek

LocationDescription: CR 460 N

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	1					
Bluegill	10					
Bluntnose Minnow	1					
Green Sunfish	42					
Johnny Darter	27					
Silverjaw Minnow	94					
Western Mosquitofish	19					
Yellow Bullhead	7					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170050 **LSite:** WEL-15-0014
Site: Birch Creek **Location:** W Portersville Rd **County:** Dubois
Latitude: 38.489701 **Longitude:** -87.020405 **IASNat Region:** 7C **Topo:** I-47 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 12.798 **Gradient (ft/mile):** 11.933

Sample Information

SampleNumber: AB33155 **EventID:** 18T012 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KAG **SampleTime:** 12:40:00 PM **HydroLabNumber:** P4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 7.77 **pH:** 7.92 **WaterTemp(°C):** 24.7 **SpecificConductivity (µS/cm):** 343 **Turbidity (NTU):** 8.93
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 374 **WaterDepthAvg (m):** .1 **WaterDepthMax (m):** .25 **TimeAtSite:** 01:30
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: may be influenced by mainstem

Habitat Information

TotalScore (max100): 54 **SubstrateScore (max20):** 13 **InstreamCover Score (max20):** 7 **ChannelMorphologyScore (max20):** 9
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 3 **Riffle/RunQualityScore(max8):** 5
GradientScore (max10): 10 **%Pool:** 10 **%Riffle:** 15 **%Run:** 75 **%Glide:** 0 **CanopyCover PctOpen:** 10%-<30%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	20.58	5
SunfishSpeciesCount:	1	1	%OmnivoreIndividuals:	13.58	5
MinnnowSpeciesCount:	9	5	%InsectivoreIndividuals:	79.84	5
SuckerSpeciesCount:	1	1	%PioneerIndividuals:	58.44	3
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	243	5
			%SimpleLithophilicInd.:	9.47	1
			%Ind.withDELT:	0.41	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: AB33155

EventID: 18T012

LSite: WEL-15-0014

County: Dubois

StreamName: Birch Creek

LocationDescription: W Portersville Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluntnose Minnow	28					
Bullhead Minnow	15					
Central Stoneroller	10					
Channel Catfish	1					
Creek Chub	5					
Golden Redhorse	5					
Green Sunfish	13					
Johnny Darter	67					
Mississippi Silvery Minnow	5					
Sand Shiner	31					
Silverjaw Minnow	19					
Spotfin Shiner	15					
Suckermouth Minnow	13					
Western Mosquitofish	13					
Yellow Bullhead	3			1		



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170070 **LSite:** WEL-15-0015
Site: Bear Creek **Location:** CR 550 N **County:** Pike
Latitude: 38.502825 **Longitude:** -87.100581 **IASNat Region:** 7B **Topo:** I-27 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 5.005 **Gradient (ft/mile):** 8.251

Sample Information

SampleNumber: AB33156 **EventID:** 18T014 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KAG **SampleTime:** 02:20:00 PM **HydroLabNumber:** P4
WaterFlowType: Riffle **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 7.66 **pH:** 8.05 **WaterTemp(°C):** 23.3 **SpecificConductivity (µS/cm):** 494 **Turbidity (NTU):** 2.69
SpecialNotes: No temperature calibration value; #3 meter not reading.

ElectrofishingEquipment: Backpack **Voltage:** 300 **Avg.StreamWidth(m):** 3 **DistanceFished (m):** 50
SecondsFished: 494 **WaterDepthAvg (m):** .25 **WaterDepthMax (m):** .75 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 55 **SubstrateScore (max20):** 7 **InstreamCover Score (max20):** 12 **ChannelMorphologyScore (max20):** 12
RiparianZoneBankErosion Score(max10): 6 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 4
GradientScore (max10): 6 **%Pool:** 20 **%Riffle:** 20 **%Run:** 60 **%Glide:** 0 **CanopyCover PctOpen:** 30%-<55%
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	69.54	1
SunfishSpeciesCount:	2	3	%OmnivoreIndividuals:	24.71	3
MinnnowSpeciesCount:	9	5	%InsectivoreIndividuals:	33.91	3
SuckerSpeciesCount:	0	1	%PioneerIndividuals:	79.31	1
SensitiveSpeciesCount:	2	5	Total # of Individuals (CPUE):	174	3
			%SimpleLithophilicInd.:	0.57	1
			%Ind.withDELT:	0.57	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: AB33156

EventID: 18T014

LSite: WEL-15-0015

County: Pike

StreamName: Bear Creek

LocationDescription: CR 550 N

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluntnose Minnow	43	1				
Central Stoneroller	3					
Creek Chub	68					
Green Sunfish	4					
Johnny Darter	6					
Largemouth Bass	1					
Longear Sunfish	15					
Redfin Shiner	1					
Ribbon Shiner	2					
Sand Shiner	4					
Silverjaw Minnow	14					
Spotfin Shiner	6					
Suckermouth Minnow	1					
Yellow Bullhead	6					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170070 **LSite:** WEL-15-0016
Site: Beech Creek **Location:** CR 550 N **County:** Pike
Latitude: 38.502630 **Longitude:** -87.129031 **IASNat Region:** 7B **Topo:** I-26 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 2.998 **Gradient (ft/mile):** 13.793

Sample Information

SampleNumber: AB33157 **EventID:** 18T015 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/24/2018 **SurveyCrewChief:** KAG **SampleTime:** 03:42:00 PM **HydroLabNumber:** P4
WaterFlowType: Pool **WaterAppearance:** Murky **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 9.06 **pH:** 8.04 **WaterTemp(°C):** 24.9 **SpecificConductivity (µS/cm):** 541 **Turbidity (NTU):** 19.1
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 250 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 628 **WaterDepthAvg (m):** .5 **WaterDepthMax (m):** 1 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments:

Habitat Information

TotalScore (max100): 52 **SubstrateScore (max20):** 11 **InstreamCover Score (max20):** 15 **ChannelMorphologyScore (max20):** 7
RiparianZoneBankErosion Score(max10): 3 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 8 **%Pool:** 30 **%Riffle:** 0 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** >85%-Open
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	27.21	3
SunfishSpeciesCount:	3	3	%OmnivoreIndividuals:	23.81	3
MinnowSpeciesCount:	6	5	%InsectivoreIndividuals:	72.79	5
SuckerSpeciesCount:	3	3	%PioneerIndividuals:	17.69	5
SensitiveSpeciesCount:	2	5	Total # of Individuals (CPUE):	147	3
			%SimpleLithophilicInd.:	17.01	3
			%Ind.withDELT:	2.72	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)	44
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SampleNumber: AB33157

EventID: 18T015

LSite: WEL-15-0016

County: Pike

StreamName: Beech Creek

LocationDescription: CR 550 N

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	7	1				
Bluegill	11					
Bluntnose Minnow	12					
Central Stoneroller	3					
Common Carp	1					
Creek Chub	1					
Golden Redhorse	1					
Green Sunfish	6					
Johnny Darter	4					
Largemouth Bass	1					
Longear Sunfish	67					
Mississippi Silvery Minnow	4					
Spotfin Shiner	7					
Spotted Sucker	2					
White Sucker	18	1	1			
Yellow Bullhead	2			1		



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170080 **LSite:** WEL170-0008
Site: Aikman Creek **Location:** Alex Hill Rd **County:** Daviess
Latitude: 38.570951 **Longitude:** -87.167329 **IASNat Region:** 7B **Topo:** I-26 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 27.020 **Gradient (ft/mile):** 4.05

Sample Information

SampleNumber: AB33158 **EventID:** 18T016 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/25/2018 **SurveyCrewChief:** KAG **SampleTime:** 08:20:00 AM **HydroLabNumber:** P4
WaterFlowType: Pool **WaterAppearance:** Other **SkyConditions:** 1 - Clear **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 3.91 **pH:** 7.45 **WaterTemp(°C):** 23.1 **SpecificConductivity (µS/cm):** 436.9 **Turbidity (NTU):** 57.2
SpecialNotes: Stagnant; Green sheen on top of water; Brown sheen on top of water; TURBIDITY TAKEN AFTER SAMPLING.

ElectrofishingEquipment: Canoe **Voltage:** 212 **Avg.StreamWidth(m):** 9 **DistanceFished (m):** 135
SecondsFished: 1032 **WaterDepthAvg (m):** .75 **WaterDepthMax (m):** 1.5 **TimeAtSite:** 01:45
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: w/ 1.5 KVA; 4 amps; oil sheen and algae on surface of water

Habitat Information

TotalScore (max100): 41 **SubstrateScore (max20):** 2 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 7 **Pool/GlideQualityScore(max12):** 8 **Riffle/RunQualityScore(max8):** 0
GradientScore (max10): 6 **%Pool:** 30 **%Riffle:** 0 **%Run:** 70 **%Glide:** 0 **CanopyCover PctOpen:** <10%-Closed
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	46.97	3
SunfishSpeciesCount:	3	3	%OmnivoreIndividuals:	31.82	1
MinnowSpeciesCount:	2	1	%InsectivoreIndividuals:	68.18	5
SuckerSpeciesCount:	1	1	%CarnivoreIndividuals:	0	1
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	66	1
			%SimpleLithophilicInd.:	1.52	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)	28
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SampleNumber: AB33158

EventID: 18T016

LSite: WEL170-0008

County: Daviess

StreamName: Aikman Creek

LocationDescription: Alex Hill Rd

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	7					
Bluntnose Minnow	20					
Freshwater Drum	1					
Gizzard Shad	1					
Golden Redhorse	1					
Green Sunfish	9					
Johnny Darter	1					
Longear Sunfish	21					
Pirate Perch	1					
Spotfin Shiner	4					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170090 **LSite:** WEL-15-0017
Site: Mud Creek **Location:** CR 725 N **County:** Pike
Latitude: 38.527205 **Longitude:** -87.219771 **IASNat Region:** 7B **Topo:** I-26 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 16.587 **Gradient (ft/mile):** 8.425

Sample Information

SampleNumber: AB33159 **EventID:** 18T017 **Sample MediumCollected:** Fish Community + Water
SampleDate: 07/25/2018 **SurveyCrewChief:** KAG **SampleTime:** 10:40:00 AM **HydroLabNumber:** P4
WaterFlowType: Pool **WaterAppearance:** Clear **SkyConditions:** 1 - Clear **AirTemperature:** 5 - 76-85
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 6.6 **pH:** 7.86 **WaterTemp(°C):** 23.4 **SpecificConductivity (µS/cm):** 850 **Turbidity (NTU):** 13.4
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 7 **DistanceFished (m):** 105
SecondsFished: 724 **WaterDepthAvg (m):** .6 **WaterDepthMax (m):** 1.2 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: influenced from East Fork White River

Habitat Information

TotalScore (max100): 52 **SubstrateScore (max20):** 7 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 10
RiparianZoneBankErosion Score(max10): 4 **Pool/GlideQualityScore(max12):** 10 **Riffle/RunQualityScore(max8):** 3
GradientScore (max10): 10 **%Pool:** 40 **%Riffle:** 10 **%Run:** 10 **%Glide:** 40 **CanopyCover PctOpen:** <10%-Closed
SubjectiveRating: **AestheticRating:** **NOTES:** "NEW RECORD"

Fish Community Index of Biotic Integrity (IBI) Information

Calibration Used: Interior River Lowland

	<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:	6.15	5
SunfishSpeciesCount:	3	3	%OmnivoreIndividuals:	1.54	5
MinnowSpeciesCount:	2	1	%InsectivoreIndividuals:	92.31	5
SuckerSpeciesCount:	1	1	%PioneerIndividuals:	18.46	5
SensitiveSpeciesCount:	2	3	Total # of Individuals (CPUE):	65	1
			%SimpleLithophilicInd.:	1.54	1
			%Ind.withDELT:	0	5

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

Total IBI Score (min 0, max 60)	38
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SampleNumber: AB33159

EventID: 18T017

LSite: WEL-15-0017

County: Pike

StreamName: Mud Creek

LocationDescription: CR 725 N

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	29					
Bluntnose Minnow	1					
Golden Redhorse	1					
Green Sunfish	1					
Johnny Darter	10					
Longear Sunfish	4					
Pirate Perch	1					
Spotfin Shiner	12					
Spotted Bass	4					
Yellow Bullhead	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170090 **LSite:** WEL-15-0017
Site: Mud Creek **Location:** CR 725 N **County:** Pike
Latitude: 38.527205 **Longitude:** -87.219771 **IASNat Region:** 7B **Topo:** I-26 **Segment:** 85
Ecoregion: Interior River Lowland **Drainage Area (sq.miles):** 16.587 **Gradient (ft/mile):** 8.425

Sample Information

SampleNumber: AB34006 **EventID:** 18T017.5 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/15/2018 **SurveyCrewChief:** KAG **SampleTime:** 01:50:00 PM **HydroLabNumber:** P4
WaterFlowType: Run **WaterAppearance:** Clear **SkyConditions:** 7 - Shower **AirTemperature:** 4 - 61-75
WindDirection: 27 - West (270 degrees) **WindStrength:** 0 - Calm
DissolvedO2 (mg/l): 6.82 **pH:** 8 **WaterTemp(°C):** 23.5 **SpecificConductivity (µS/cm):** 1165 **Turbidity (NTU):** 7.22
SpecialNotes:

ElectrofishingEquipment: Backpack **Voltage:** 200 **Avg.StreamWidth(m):** 5 **DistanceFished (m):** 75
SecondsFished: 365 **WaterDepthAvg (m):** .25 **WaterDepthMax (m):** .5 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 51.85% catch Bluegill

Habitat Information

TotalScore (max100): 56 **SubstrateScore (max20):** 14 **InstreamCover Score (max20):** 8 **ChannelMorphologyScore (max20):** 9
RiparianZoneBankErosion Score(max10): 3 **Pool/GlideQualityScore(max12):** 7 **Riffle/RunQualityScore(max8):** 5
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 River Lowland

	<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:	6	3	%TolerantIndividuals:	0	5
SunfishSpeciesCount:	2	3	%OmnivoreIndividuals:	0	5
MinnnowSpeciesCount:	0	1	%InsectivoreIndividuals:	88.89	5
SuckerSpeciesCount:	0	1	%PioneerIndividuals:	22.22	5
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	27	1
			%SimpleLithophilicInd.:	0	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)	36
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SampleNumber: AB34006

EventID: 18T017.5

LSite: WEL-15-0017

County: Pike

StreamName: Mud Creek

LocationDescription: CR 725 N

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Bluegill	14					
Johnny Darter	6					
Largemouth Bass	1					
Longear Sunfish	3					
Pirate Perch	1					
Spotted Bass	2					



Indiana Department of Environmental Management Fish Community Assessments

Site Information

SubBasin: Lower East Fork White **14 digit HUC:** 05120208170030 **LSite:** WEL-15-0008
Site: Slate Creek **Location:** CR 22 **County:** Martin
Latitude: 38.537279 **Longitude:** -86.904546 **IASNat Region:** 9A **Topo:** I-28 **Segment:** 85
Ecoregion: Interior Plateau **Drainage Area (sq.miles):** 4.006 **Gradient (ft/mile):** 14.167

Sample Information

SampleNumber: AB34007 **EventID:** 18T002.5 **Sample MediumCollected:** Fish Community + Water
SampleDate: 08/14/2018 **SurveyCrewChief:** KAG **SampleTime:** 05:45:00 PM **HydroLabNumber:** P4
WaterFlowType: Stagnant **WaterAppearance:** Green **SkyConditions:** 4 - Cloudy **AirTemperature:** 6 - > 86
WindDirection: 27 - West (270 degrees) **WindStrength:** 1 - Light
DissolvedO2 (mg/l): 8.12 **pH:** 7.66 **WaterTemp(°C):** 27.1 **SpecificConductivity (µS/cm):** 1045 **Turbidity (NTU):** 33.5
SpecialNotes: Large algal mats at start of reach

ElectrofishingEquipment: Backpack **Voltage:** 100 **Avg.StreamWidth(m):** 2 **DistanceFished (m):** 50
SecondsFished: 242 **WaterDepthAvg (m):** .25 **WaterDepthMax (m):** .5 **TimeAtSite:** 01:00
BridgeInReach: **ReachRepresentative:** **WhyReachNotRepresentative:**
SpecialComments: 56.39% catch Central Stoneroller

Habitat Information

TotalScore (max100): 38 **SubstrateScore (max20):** 7 **InstreamCover Score (max20):** 5 **ChannelMorphologyScore (max20):** 7
RiparianZoneBankErosion Score(max10): 2 **Pool/GlideQualityScore(max12):** 6 **Riffle/RunQualityScore(max8):** 3
GradientScore (max10): 8 **%Pool:** 70 **%Riffle:** 15 **%Run:** 15 **%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:	10	3	%TolerantIndividuals:	33.08	3
Darter/Madtom/SculpinSpeciesCount:	2	3	%OmnivoreIndividuals:	5.26	5
%HeadwaterIndividuals:	0	1	%InsectivoreIndividuals:	22.56	1
MinnnowSpeciesCount:	4	3	%PioneerIndividuals:	96.24	1
SensitiveSpeciesCount:	1	1	Total # of Individuals (CPUE):	133	3
			%SimpleLithophilicInd.:	3.01	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)	30
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SampleNumber: AB34007

EventID: 18T002.5

LSite: WEL-15-0008

County: Martin

StreamName: Slate Creek

LocationDescription: CR 22

Common Name	Individual Fish Count	Deformities	Eroded Fins	Lesions	Tumors	Multiple Anomalies
Blackstripe Topminnow	2					
Bluntnose Minnow	7					
Central Stoneroller	75					
Creek Chub	21					
Green Sunfish	15					
Johnny Darter	5					
Longear Sunfish	2					
Orangethroat Darter	4					
Silverjaw Minnow	1					
Yellow Bullhead	1					