



# TARGETS MODEL OUTPUT FOR THREE DSS HYDROGRAPHS

James Lee

Hoop Valley Tribal  
Fisheries

With support from John  
Bair, McBain Associates

# SCENARIO

Three hydrographs; three cross sections; 2015 seed dispersal; no capillarity

# CROSS SECTIONS AT THREE LOCATIONS

## Dark Gulch (RM106.76)

- nearest to TRD
- 2012 LiDAR/Topography

## Reading Creek(RM92.47)

- Midway between TRD and NF
- 2013 Auto Level Survey (XS1067+00)

## Ed's Bar (RM82.12)

- Most downstream and nearest to NF
- 2012 LiDAR/Topography

# BLACK COTTONWOOD

April 24 Seed Dispersal Begins

June 5 Seed Dispersal Ends

# MODELED HYDROGRAPHS

Record of Decision NORMAL

Salmon River Scaled NORMAL

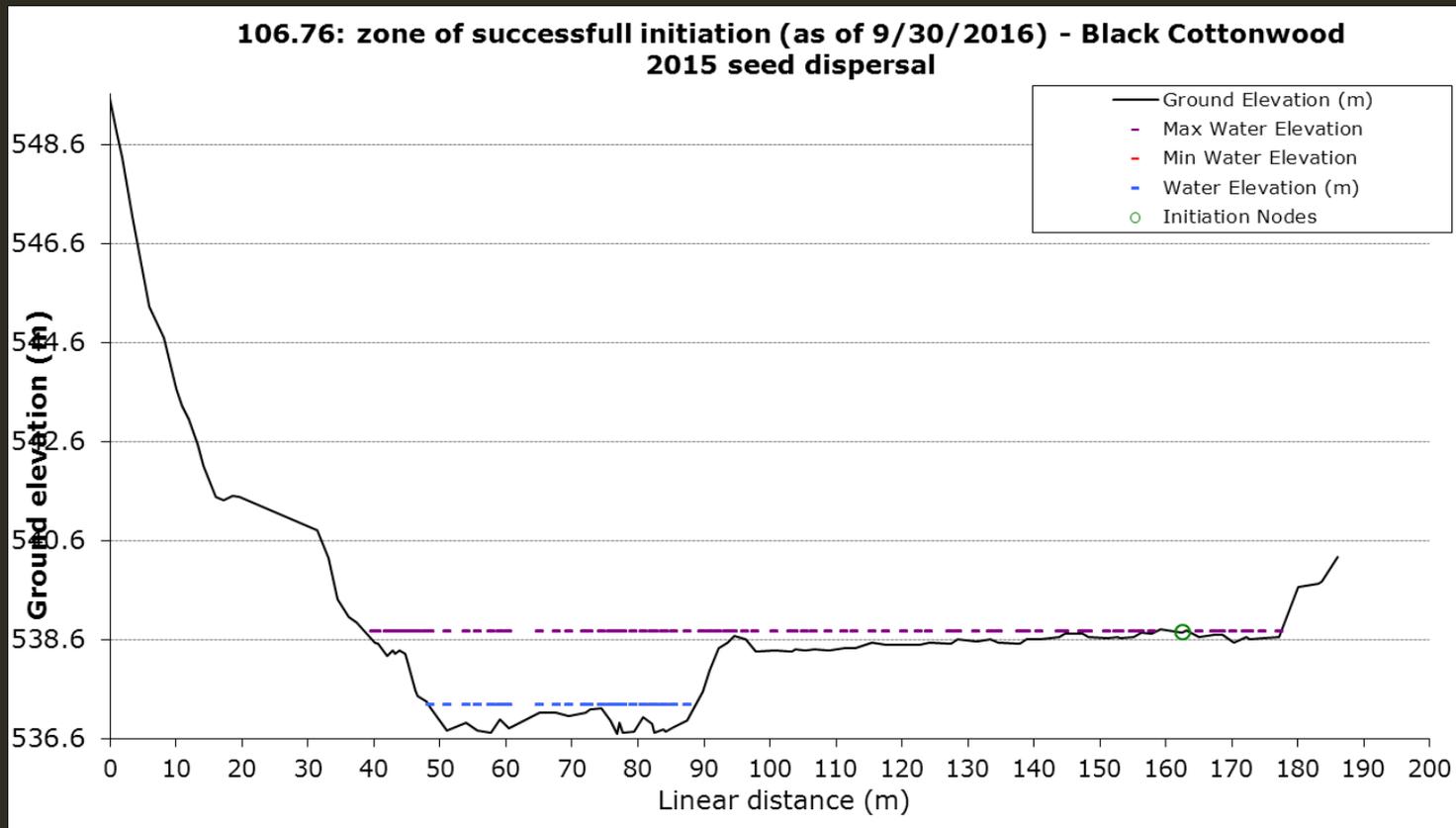
USBR WY 2012 NORMAL Actual Release

# TARGETS MODEL LIMITATIONS

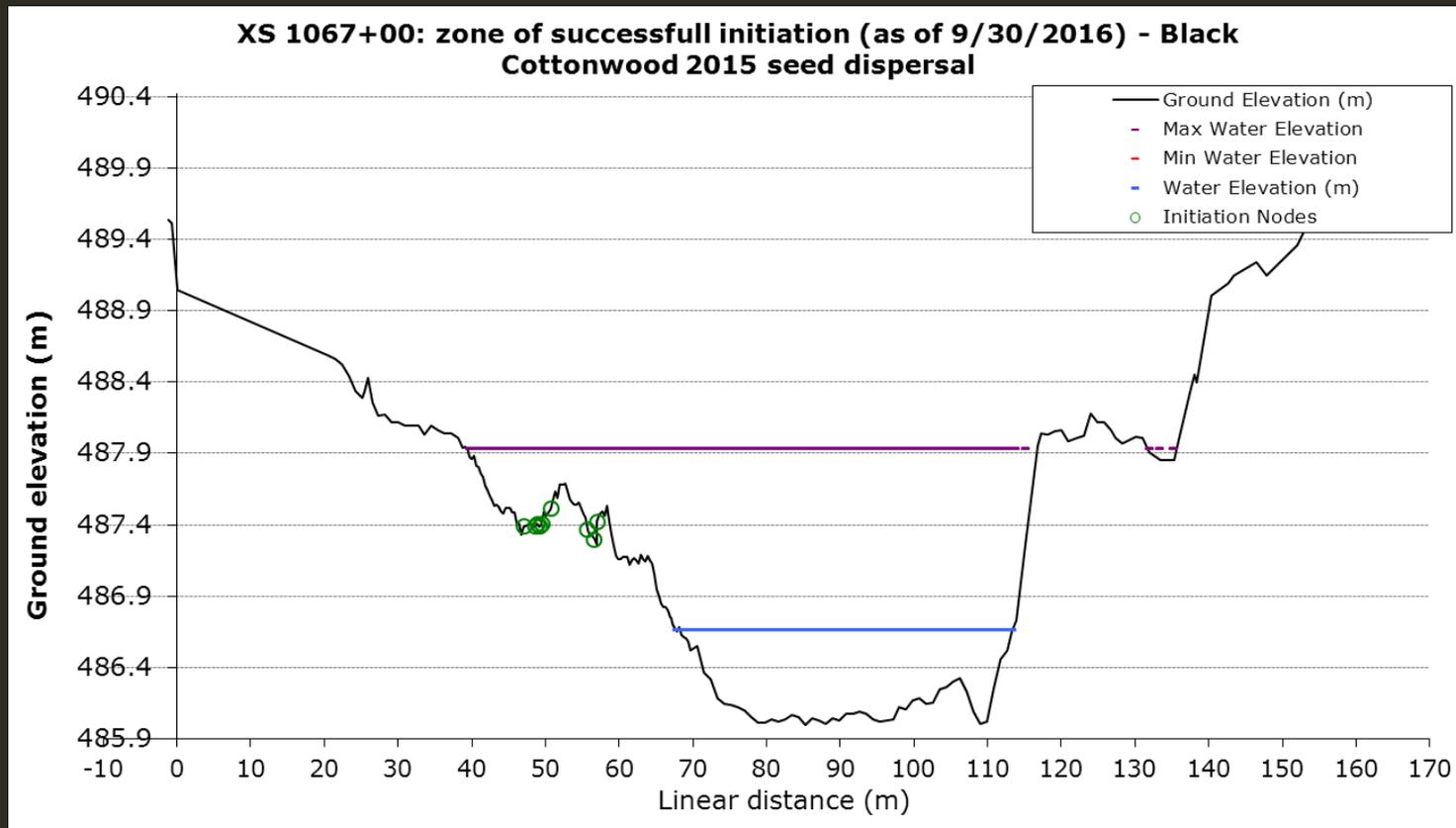
No inundation mortality

No scour mortality

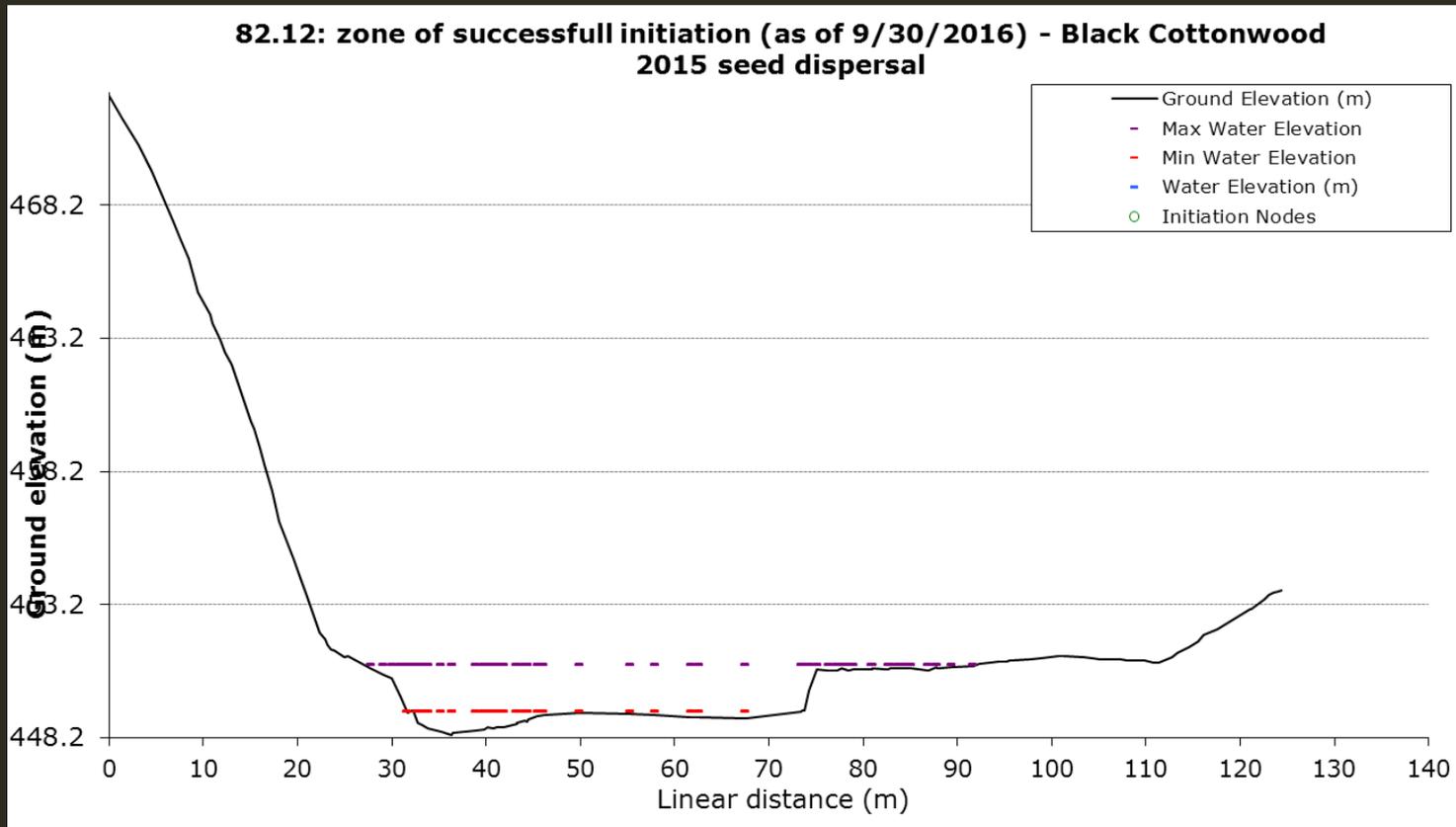
# RM 106.76 DARK GULCH MODELED INITIATION NODES USING THE ROD NORMAL HYDROGRAPH



# RM 92.47 READING CREEK MODELED INITIATION NODES USING THE ROD NORMAL HYDROGRAPH



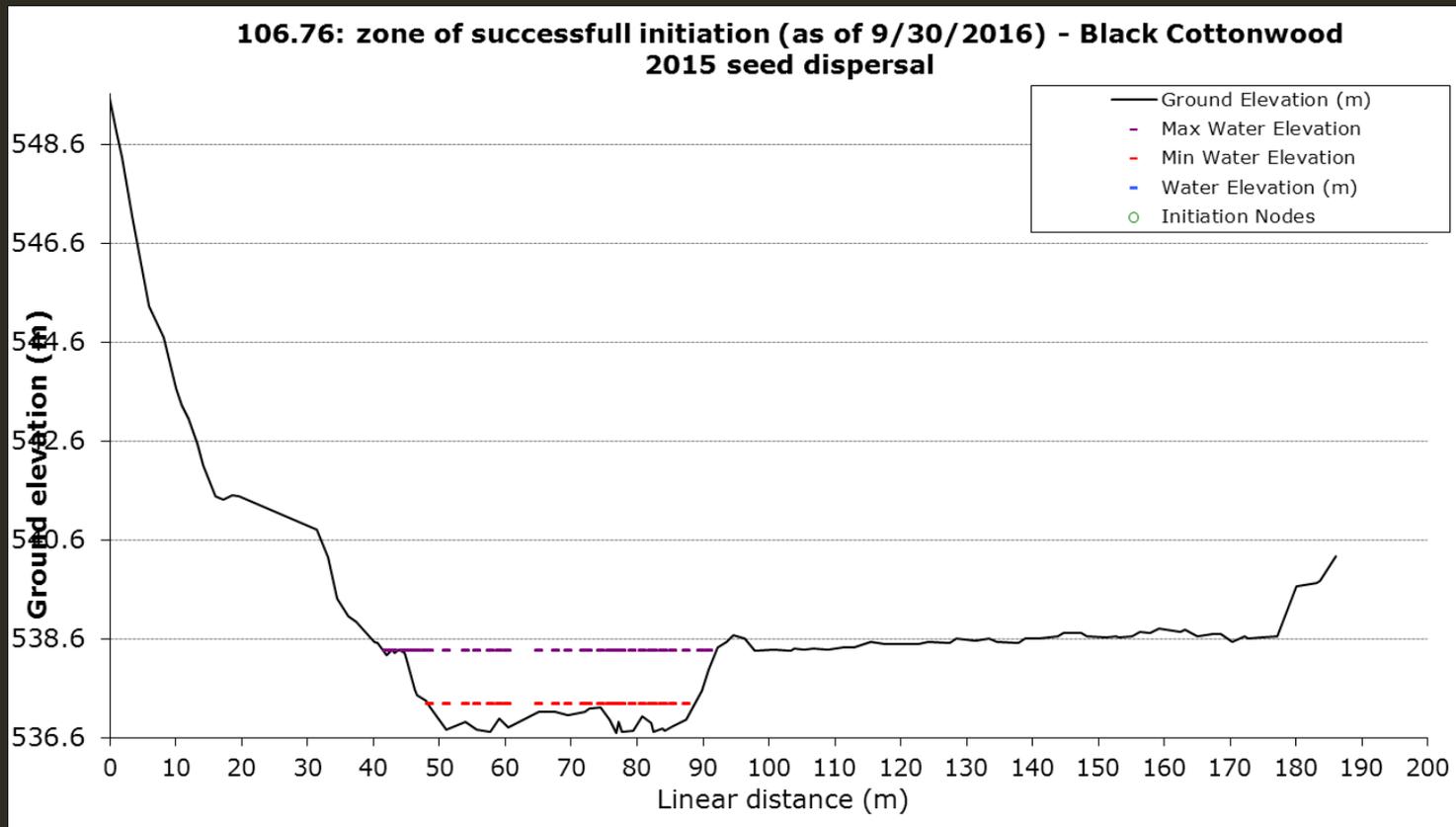
# RM 82.12 ED'S BAR MODELED INITIATION NODES USING THE ROD NORMAL HYDROGRAPH



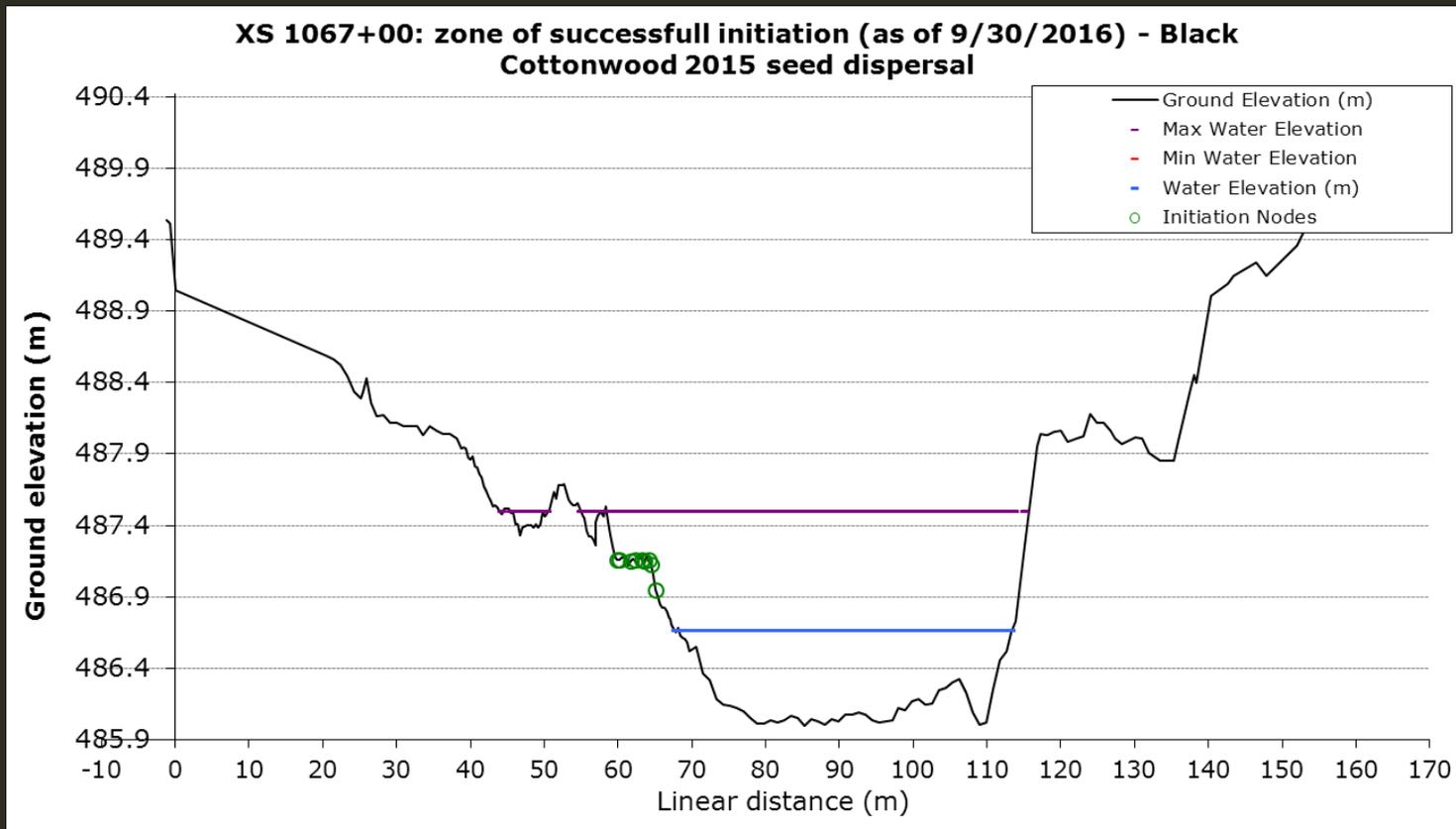
# TOTAL INITIATION NODES WITHIN INUNDATION ZONES FOR ROD NORMAL HYDROGRAPH

Cross Section	Hydrograph	Below 12.7cms (450cfs)	Between 12.7 and 56.6cms (450-2,000cfs)	Between 56.6 and 127.4cms (2,000-4,500cfs)	Between 127.4 and 184.1cms (4,500-6,500cfs)	Between 184.1 and 240.7cms (6,500-8,500cfs)	Between 240.7 and 311.5cms (8,500-11,000cfs)
106.76	ROD NORMAL	0	0	0	1	0	0
92.47	ROD NORMAL	0	0	9	0	0	0
82.12	ROD NORMAL	0	0	0	0	0	0

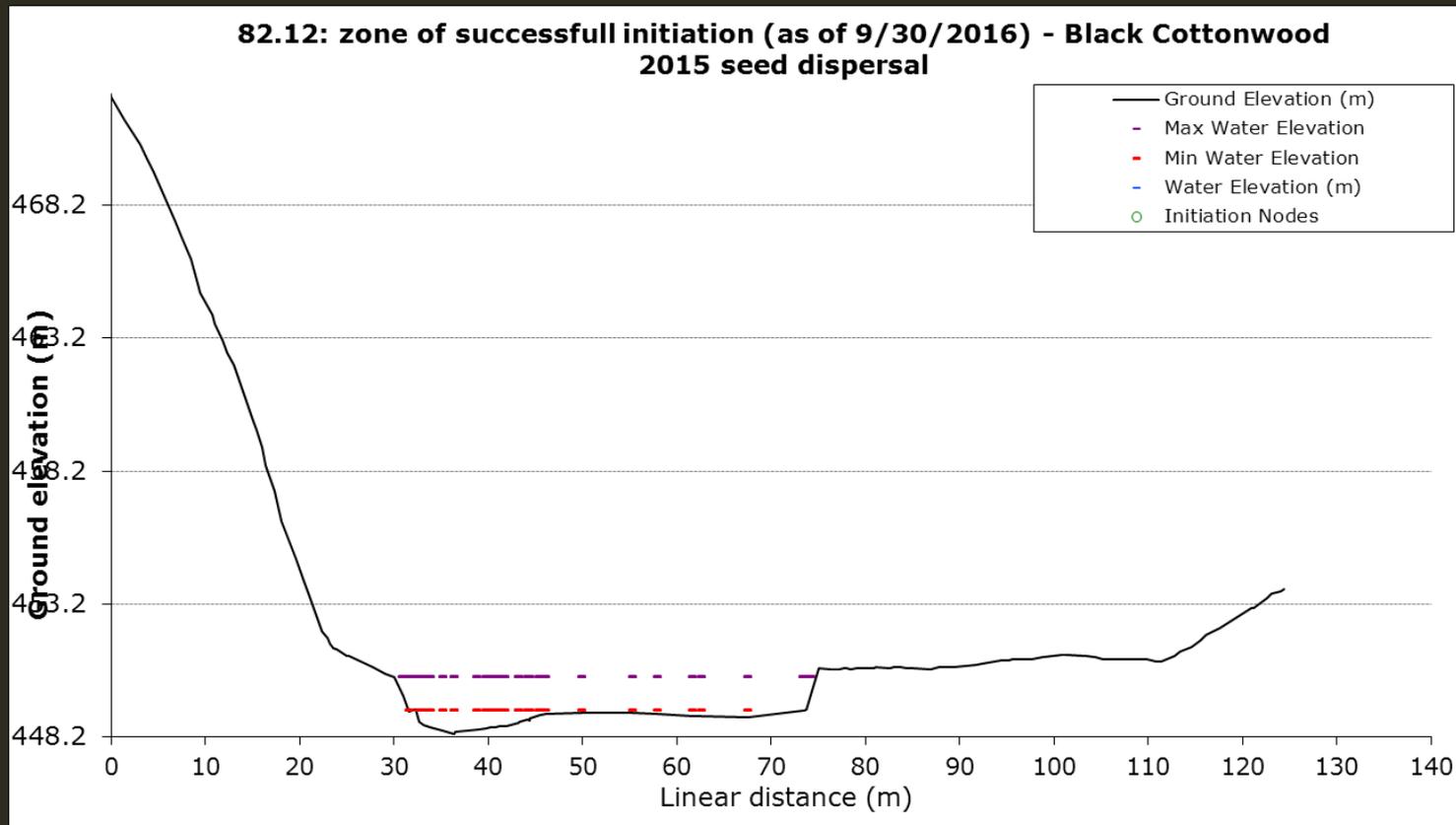
# RM 106.76 DARK GULCH MODELED INITIATION NODES USING THE SALMON RIVER SCALED NORMAL HYDROGRAPH



# RM 92.47 READING CREEK MODELED INITIATION NODES USING THE SALMON RIVER SCALED NORMAL HYDROGRAPH



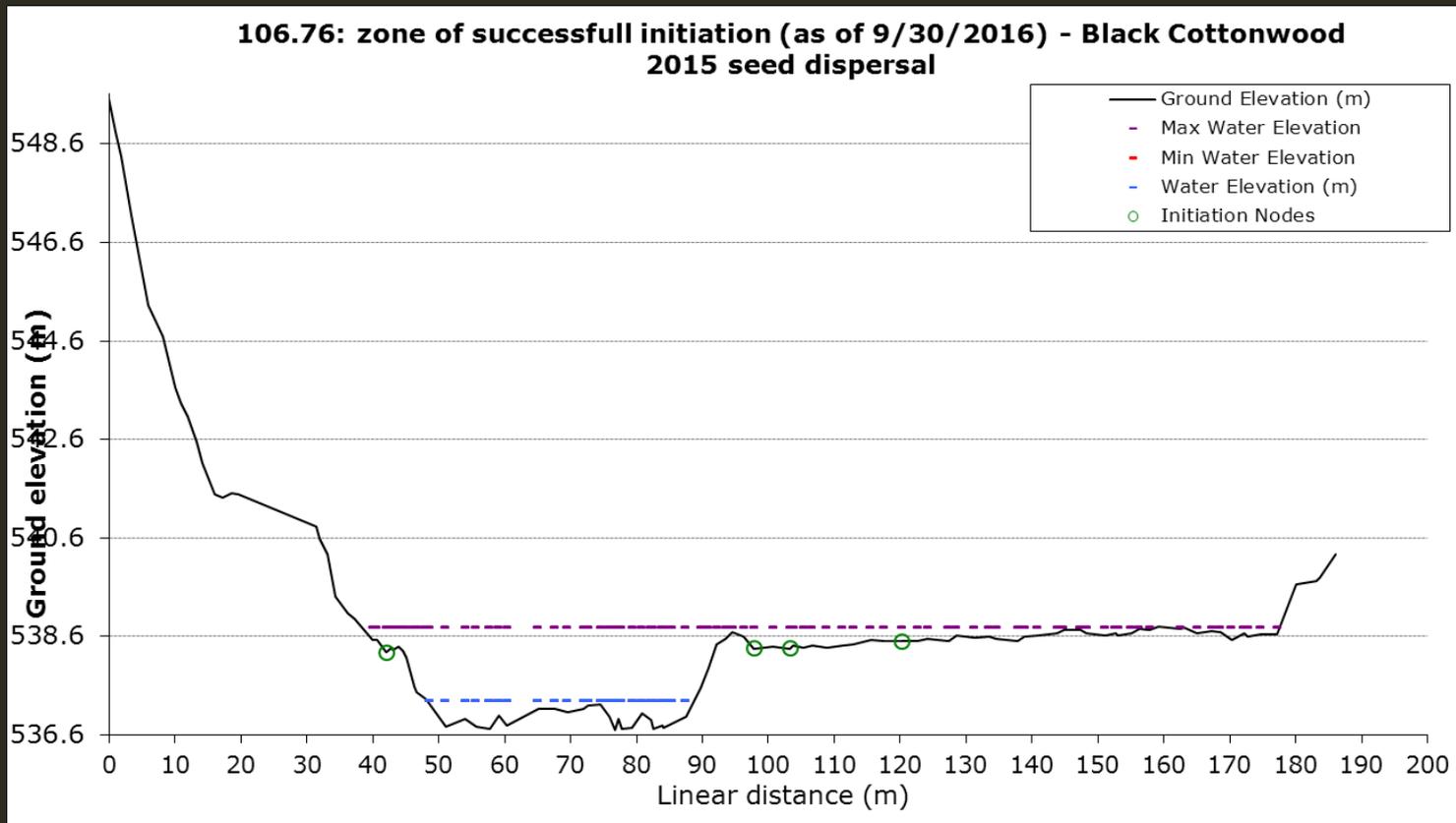
# RM 82.12 ED'S BAR MODELED INITIATION NODES USING THE SALMON RIVER SCALED NORMAL HYDROGRAPH



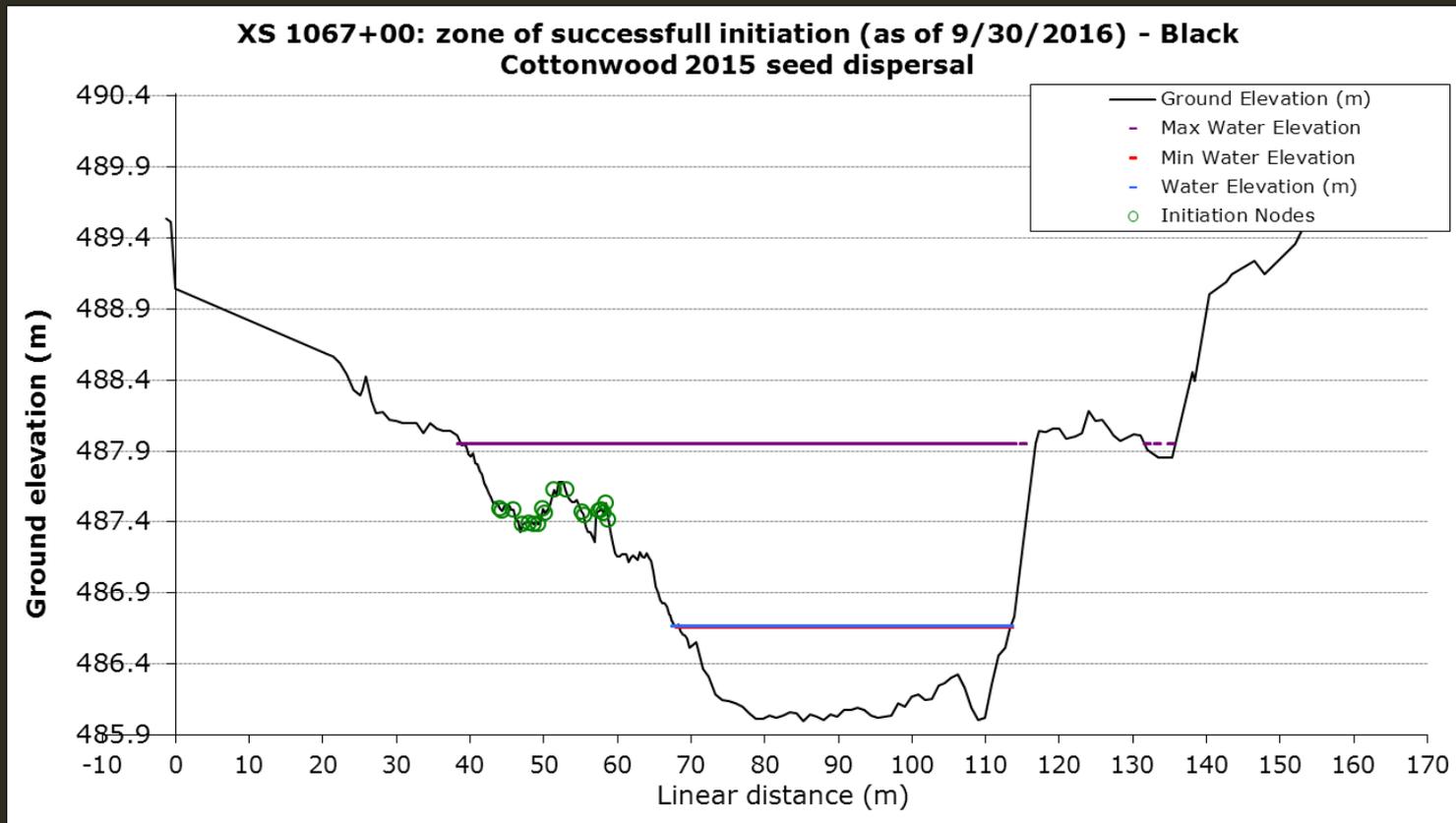
# TOTAL INITIATION NODES WITHIN INUNDATION ZONES FOR SALMON RIVER SCALED HYDROGRAPH

Cross Section	Hydrograph	Below 12.7cms (450cfs)	Between 12.7 and 56.6cms (450-2,000cfs)	Between 56.6 and 127.4cms (2,000-4,500cfs)	Between 127.4 and 184.1cms (4,500-6,500cfs)	Between 184.1 and 240.7cms (6,500-8,500cfs)	Between 240.7 and 311.5cms (8,500-11,000cfs)
106.76	Salmon River	0	0	0	0	0	0
92.47	Salmon River	0	9	0	0	0	0
82.12	Salmon River	0	0	0	0	0	0

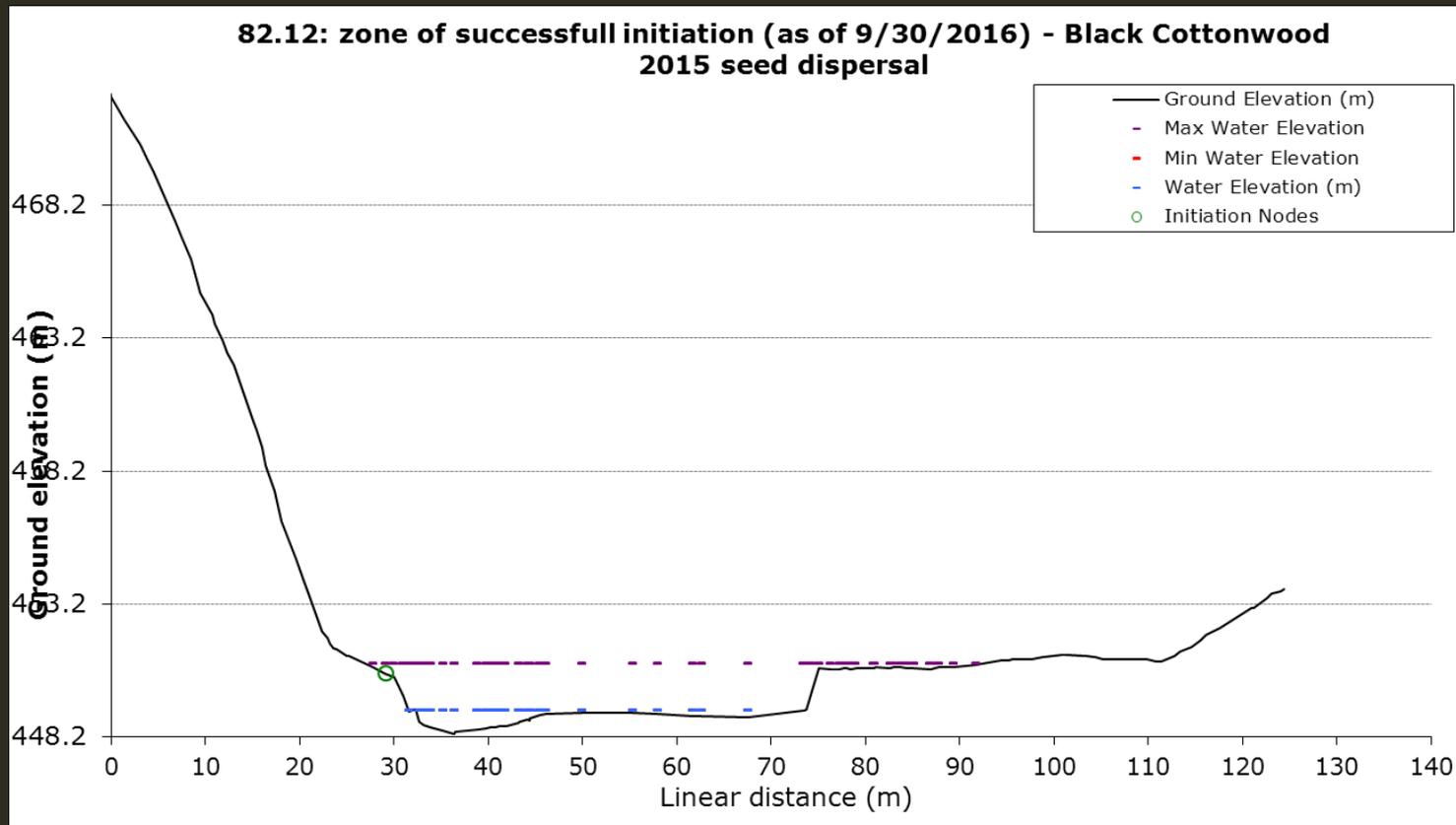
# RM 106.76 DARK GULCH MODELED INITIATION NODES USING THE TRRP W12 NORMAL HYDROGRAPH (ACTUAL RELEASE)



# RM 92.47 READING CREEK MODELED INITIATION NODES USING THE TRRP W12 NORMAL HYDROGRAPH (ACTUAL RELEASE)



# RM 82.12 ED'S BAR MODELED INITIATION NODES USING THE TRRP W12 NORMAL HYDROGRAPH (ACTUAL RELEASE)



# TOTAL INITIATION NODES WITHIN INUNDATION ZONES FOR TRRP WY12 ACTUAL RELEASE

Cross Section	Hydrograph	Below 12.7cms (450cfs)	Between 12.7 and 56.6cms (450-2,000cfs)	Between 56.6 and 127.4cms (2,000-4,500cfs)	Between 127.4 and 184.1cms (4,500-6,500cfs)	Between 184.1 and 240.7cms (6,500-8,500cfs)	Between 240.7 and 311.5cms (8,500-11,000cfs)
106.76	WY2012 Actual	0	0	3	1	0	0
92.47	WY2012 Actual	0	0	16	2	0	0
82.12	WY2012 Actual	0	0	0	1	0	0

# TOTAL INITIATION NODES WITHIN INUNDATION ZONES FOR EACH OPTION MODELED

Cross Section	Hydrograph	Below 12.7cms (450cfs)	Between 12.7 and 56.6cms (450-2,000cfs)	Between 56.6 and 127.4cms (2,000-4,500cfs)	Between 127.4 and 184.1cms (4,500-6,500cfs)	Between 184.1 and 240.7cms (6,500-8,500cfs)	Between 240.7 and 311.5cms (8,500-11,000cfs)	Total
106.76	ROD NORMAL	0	0	0	1	0	0	1
106.76	Salmon River	0	0	0	0	0	0	0
106.76	WY2012 Actual	0	0	3	1	0	0	4
92.47	ROD NORMAL	0	0	9	0	0	0	9
92.47	Salmon River	0	9	0	0	0	0	9
92.47	WY2012 Actual	0	0	16	2	0	0	18
82.12	ROD NORMAL	0	0	0	0	0	0	0
82.12	Salmon River	0	0	0	0	0	0	0
82.12	WY2012 Actual	0	0	0	1	0	0	1

# RANKING BASED ON NUMBER OF INITIATION NODES



## #1 USBR WY 2012 NORMAL Actual Release

- 23 predicted nodes

## #2 Record of Decision NORMAL

- 10 predicted nodes

## #3 Salmon River Scaled NORMAL

- 9 predicted nodes