

**LOTIC PROPER FUNCTIONING CONDITION (PFC)
STANDARD CHECKLIST**

Record ID No: _____

Stream: _____ Polygon: _____

Functional rating: _____

Apparent trend for Functional—At Risk: _____

Channel length (miles): _____

Polygon size (acres): _____



ADMINISTRATIVE DATA

Unique Location ID: _____ Reach ID: _____

A1. Field data collected by: _____

A2. Funding Agency/Organization: _____

A3a. BLM State Office: _____

A3b. BLM Field Office/Field Station: _____

A3c. BLM Office Code: _____ **A3d.** Is the polygon in an active BLM grazing allotment? (Yes; No; NA): _____

If **Yes, A3e:** Allotment Number: _____

A3f: Allotment Number: _____

Allotment ID: _____

Allotment ID: _____

Allotment Name: _____

Allotment Name: _____

Management Status: _____

Management Status: _____

A4. USFWS Refuge: _____

A5. Reservation: _____

A6. NPS Park/NHS: _____

A7. USFS National Forest: _____

A8. Other Location: _____

A9. Year: _____ **A10.** Date field data collected: _____ **A11.** Observers: _____

A12a. At least some part of this polygon has been inventoried more than once (resampled)? (Yes; No): _____

If **No**, go to item **A13a**. If **Yes, A12b.** This polygon coincides exactly with another inventoried polygon? (Yes; No): _____

A12c. Is this the latest inventory for this polygon? (Yes; No): _____

A12d. ID No.(s) of other inventories of this polygon: _____, _____, _____, _____, _____

A12e. Other years: _____

A12f. This polygon shares common area with other inventoried polygon(s)? (Yes; No): _____ **A12g.** Other years: _____

A12h. ID No.(s) of other records sharing area with this polygon: _____, _____, _____, _____, _____

A13a. Has a change in management occurred? (Yes; No): _____ If **Yes, A13b.** Year that changed occurred: _____

A13c. Type of management change applied: _____

LOCATION DATA

B1. State/Province: _____ **B2.** County/Municipal district: _____

B3. Allotment/Range/Management unit: _____

B4a. Area name: _____

B4b. Tributary to: _____

B4c. Group name: _____ **B4d.** Group number: _____ **B5.** Polygon number: _____

B6a. Upper end elevation (ft): _____ ; (m): _____ **B6b.** Lower end elevation (ft): _____ ; (m): _____

B7. Stream gradient (percent): _____ % GPS Unit: _____

B8a. Polygon latitude/longitude coordinates: GPS Projection: _____ WAAS Enabled Unit: _____ Observer _____

Upper: Lat: _____ Lon: _____ Accuracy Initial

Lower: Lat: _____ Lon: _____ +/- ft +/- m & WPT

Other: Lat: _____ Lon: _____

UTM Descriptions: X y

UTM coordinates of polygon UPPER END: Easting: _____; Northing: _____; Zone: _____

UTM coordinates of polygon LOWER END: Easting: _____; Northing: _____; Zone: _____

UTM coordinates of any other point of interest in the polygon: East: _____; North: _____; Zone: _____

B8b. Other Point _____

Comments: _____

Current as of 5/24/2017 Lotic PFC Checklist 2 Check www.ecologicalsolutionsgroup.com for latest data set & form

B9. Hydrologic unit code(s) (HUC) from the USGS National Hydrography Dataset (NHD): Record ID No: _____

HUC LEVELS: Region (2 digits; First Level HUC); Subregion (4 digits; Second Level HUC); Basin (6 digits; Third Level HUC); Subbasin (8 digits; Fourth Level HUC); Watershed (10 digits; Fifth Level HUC); and Subwatershed (12 digits; Sixth Level HUC)

HUC #1: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #2: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #3: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #4: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #5: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

HUC #6: _____
River Miles: _____
Percent of Stream Reach: _____
Region Name: _____
square miles: _____
Subregion Name: _____
square miles: _____
Basin Name: _____
square miles: _____
Subbasin Name: _____
square miles: _____
Watershed Name: _____
square miles: _____
Subwatershed Name: _____
acres: _____

SELECTED SUMMARY DATA

Record ID No: _____

- C1.** Wetland type: _____ **C2.** Polygon size (ac): _____ ; (hect): _____
- C3a.** Is the entire polygon an upland? (Yes; No): _____ **If No, C3b.** Does the polygon consist entirely of functional wetland types? (Yes; No): _____ **C3c.** Functional wetland (ac): _____ ; (hect): _____ **C3d.** Percent of total polygon: _____
- C4.** Does the polygon contain a defined streambank or channel? (Yes; No; NC): _____
- C5.** Channel length (mi): _____ ; (km): _____ **C6.** Number of river miles the polygon represents: (mi): _____ ; (km): _____
- C7a.** Average riparian zone width (ft): _____ ; (m): _____
- C7b.** Riparian zone width range (ft): _____ to _____ ; (m): _____ to _____
- C8.** Level 1 stream geomorphic characterization (NC = not collected): _____ Stream Type _____

LOTIC PROPER FUNCTIONING CONDITION (PFC) STANDARD CHECKLIST
HYDROLOGY

_____	1. Floodplain above bankfull is inundated in "relatively frequent" events

_____	2. Where beaver dams are present they are active and stable

_____	3. Sinuosity, width/depth ratio, and gradient are in balance with the landscape setting (i.e., landform, geology, and bioclimatic region)

_____	4. Riparian-wetland area is widening or has achieved potential extent

_____	5. Upland watershed not contributing to riparian-wetland degradation

VEGETATION

_____	6. There is diverse age-class distribution of riparian-wetland vegetation (recruitment for maintenance/recovery)

_____	7. There is diverse composition of riparian-wetland vegetation (for maintenance/recovery)

_____	8. Species present indicate maintenance of riparian-wetland soil moisture characteristics

_____	9. Streambank vegetation is comprised of those plants or plant communities that have root masses capable of withstanding high streamflow events

_____	10. Riparian-wetland plants exhibit high vigor

VEGETATION (continued)

Record ID No: _____

_____ 11. Adequate riparian-wetland vegetative cover is present to protect banks and dissipate energy during high flows

_____ 12. Plant communities in the riparian area are an adequate source of coarse and/or large woody material (for maintenance/recovery)

EROSION/DEPOSITION

_____ 13. Floodplain and channel characteristics (i.e., rocks, overflow channels, coarse and/or large woody material) are adequate to dissipate energy

_____ 14. Point bars are revegetating with riparian-wetland vegetation

_____ 15. Lateral stream movement is associated with natural sinuosity

_____ 16. System is vertically stable

_____ 17. Stream is in balance with water and sediment being supplied by the watershed (i.e., no excessive erosion or deposition)

Remarks:

SUMMARY DETERMINATION

Functional rating: _____

Apparent trend for Functional—At Risk: _____

Thermometer scale for functionality of the ratings for PFC or FAR: _____

Are factors contributing to unacceptable conditions outside the control of the manager? (Yes; No): _____

If **Yes**, what are those factors?

- | | | |
|------------------------|------------------------------|-----------------------------------|
| _____ Flow Regulations | _____ Mining activities | _____ Upstream channel conditions |
| _____ Channelization | _____ Road encroachment | _____ Oil field water discharge |
| _____ Augmented flows | _____ Other (specify): _____ | |

PHOTOGRAPH DATA

Photographer(s): _____

D1. Identification of photos taken at the *Upstream End of Polygon:*

		Deg	Min	Sec	N/S	Decimal		Deg	Min	Sec	E/W	Decimal
Photo Location:	Lat:	_____	_____	_____	_____	_____		Lon:	_____	_____	_____	_____

Photo Direction (degrees): _____

Photo nos.: (**Looking Upstream**): _____

Photo Description (If necessary): (**Looking Upstream**):

Photo nos.: (**Looking Downstream**): _____

Photo Description (If necessary): (**Looking Downstream**):

D2. Identification of photos taken at *Downstream End of Polygon:*

		Deg	Min	Sec	N/S	Decimal		Deg	Min	Sec	E/W	Decimal
Photo Location:	Lat:	_____	_____	_____	_____	_____		Lon:	_____	_____	_____	_____

Photo Direction (degrees): _____

Photo nos.: (**Looking Upstream**): _____

Photo Description (If necessary): (**Looking Upstream**):

Photo nos.: (**Looking Downstream**): _____

Photo Description (If necessary): (**Looking Downstream**):

D3. Additional Locations: (Lat/Lon DMS and Decimal Degrees [WGS 84]; Observer Initial and Waypoint Number)

Observer
Initial
& WPT

Location #1: Lat: _____ Lon: _____

Photo Direction at **Location #1** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #1**): _____

Photo Direction at **Location #1** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #1**): _____

Photo Direction at **Location #1** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #1**): _____

Photo Direction at **Location #1** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #1**): _____

Location #2: Lat: _____ Lon: _____

Photo Direction at **Location #2** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #2**): _____

Photo Direction at **Location #2** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #2**): _____

Photo Direction at **Location #2** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #2**): _____

Photo Direction at **Location #2** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #2**): _____

Location #3: Lat: _____ Lon: _____

Photo Direction at **Location #3** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #3**): _____

Photo Direction at **Location #3** (degrees): _____

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Photo Description (If necessary): (**Location #3**): _____

Photo Direction at **Location #3** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #3**): _____

Location #4: Lat: _____ Lon: _____

Photo Direction at **Location #4** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #4**): _____

Photo Direction at **Location #4** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #4**): _____

Photo Direction at **Location #4** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #4**): _____

Photo Direction at **Location #4** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #4**): _____

Location #5: Lat: _____ Lon: _____

Photo Direction at **Location #5** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #5**): _____

Photo Direction at **Location #5** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #5**): _____

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Photo Direction at **Location #5** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #5**): _____

Location #6: Lat: _____ Lon: _____

Photo Direction at **Location #6** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #6**): _____

Photo Direction at **Location #6** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #6**): _____

Photo Direction at **Location #6** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #6**): _____

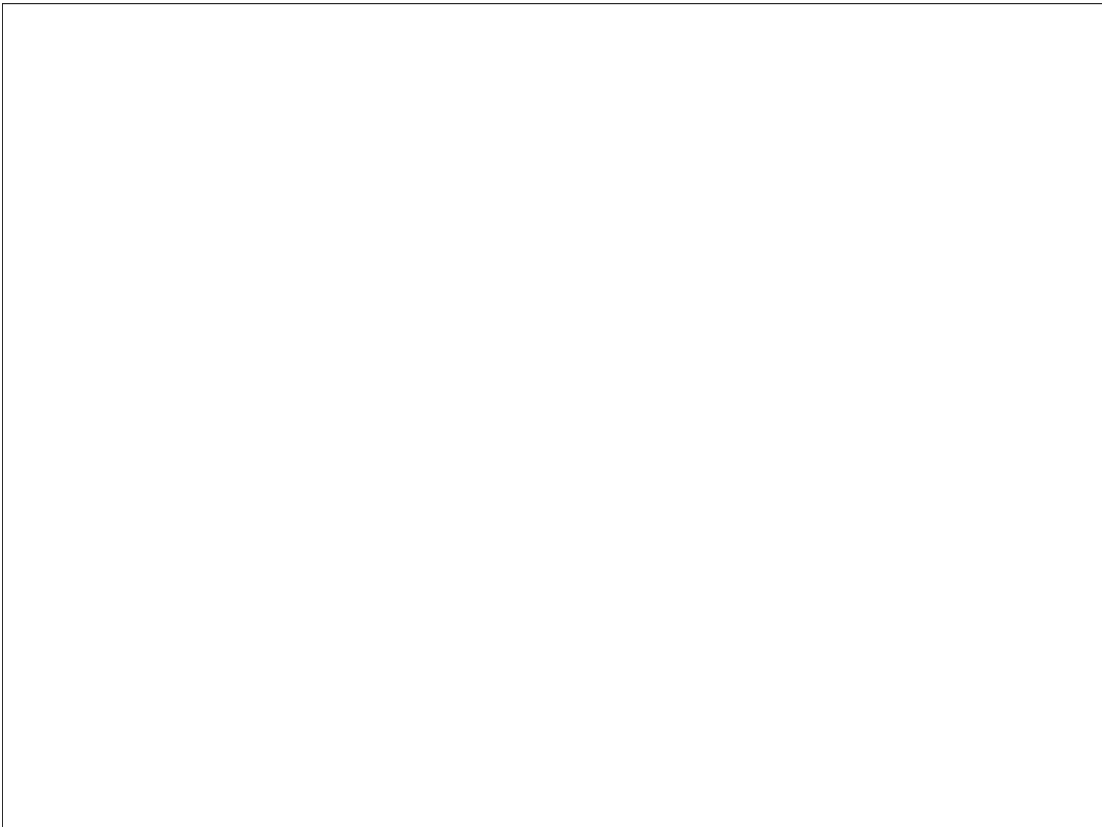
Photo Direction at **Location #6** (degrees): _____

Photo Numbers: _____

Photo Description (If necessary): (**Location #6**): _____

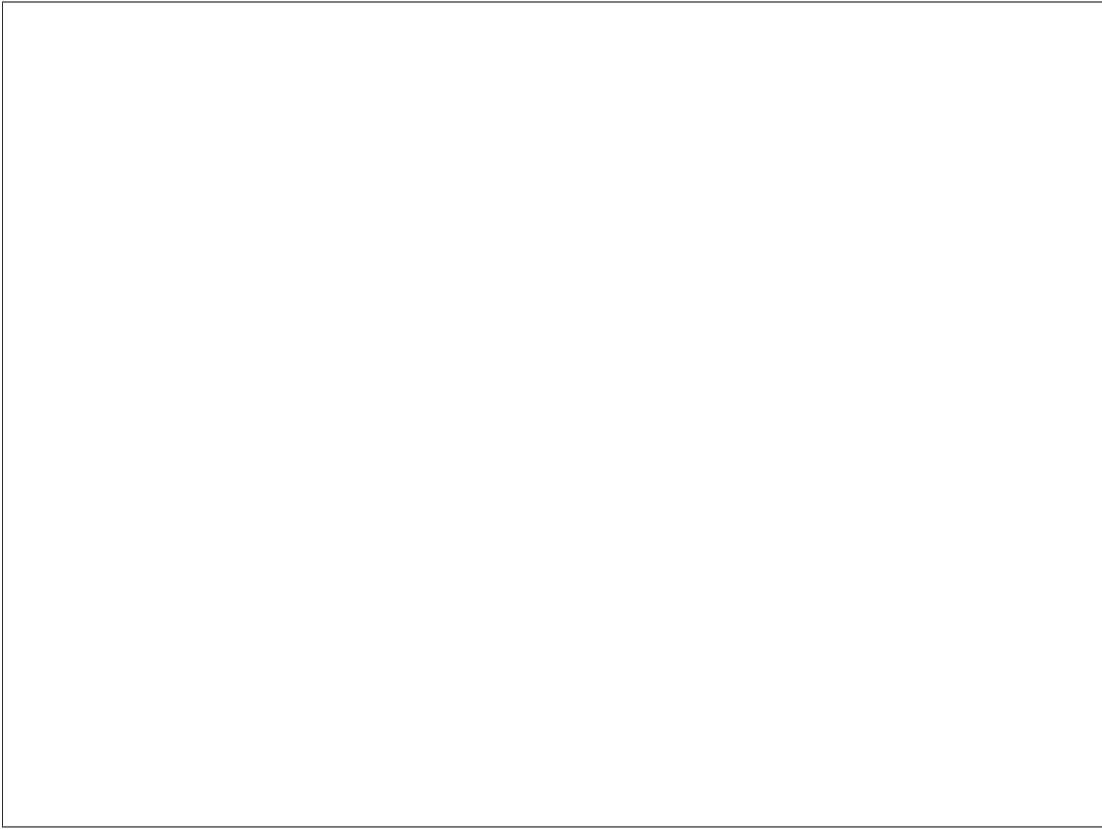
Record ID No: _____

A large, empty rectangular box with a thin black border, occupying the upper half of the page. It is intended for data entry or a drawing.A second large, empty rectangular box with a thin black border, identical in size and style to the one above, occupying the lower half of the page. It is also intended for data entry or a drawing.

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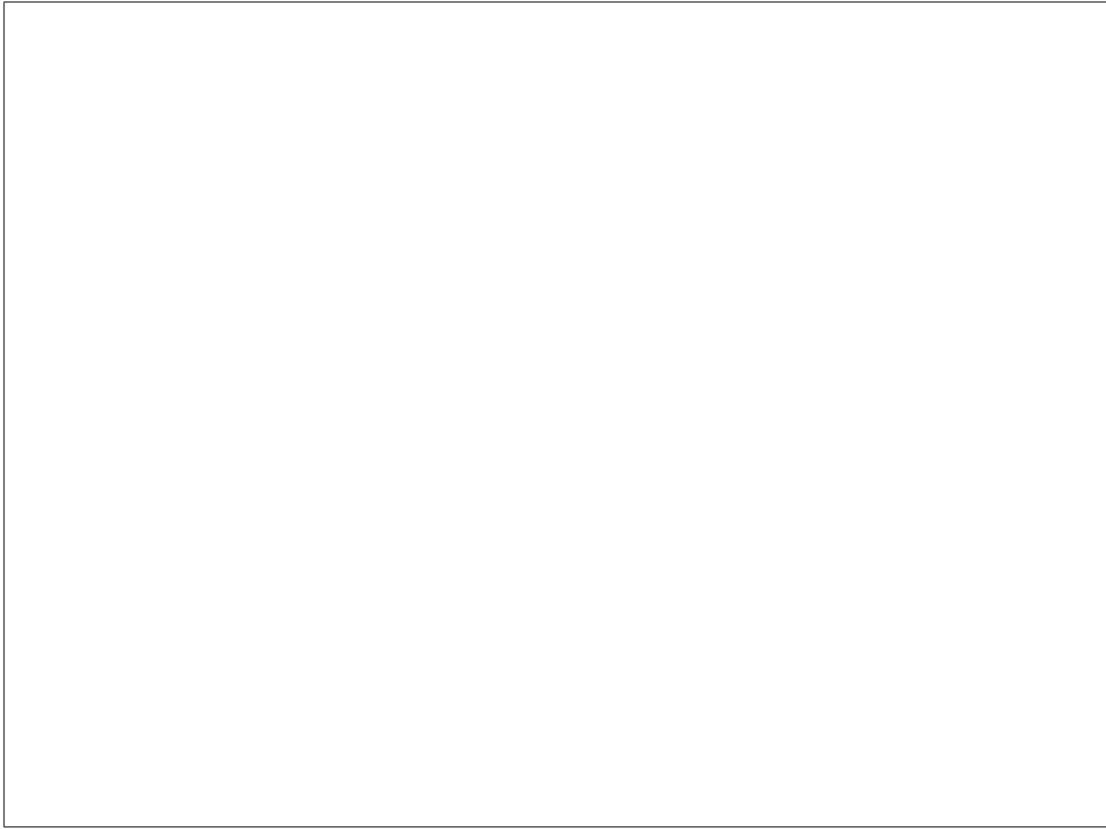
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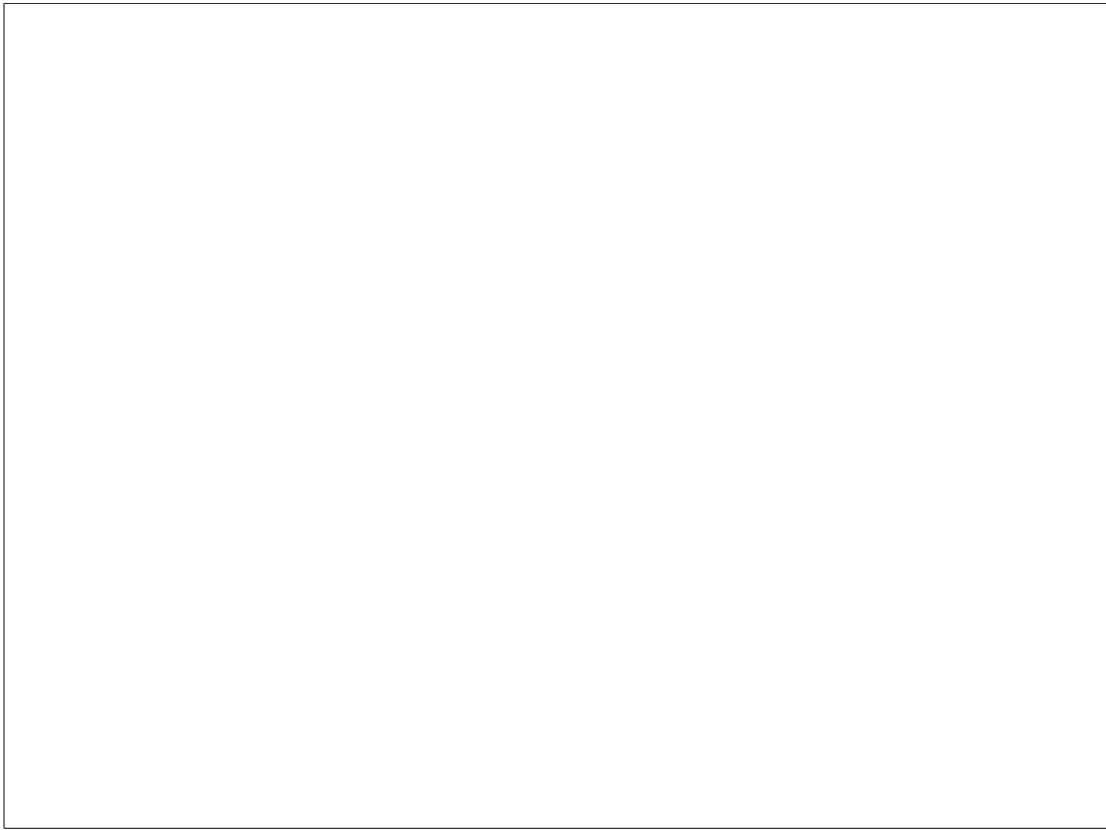
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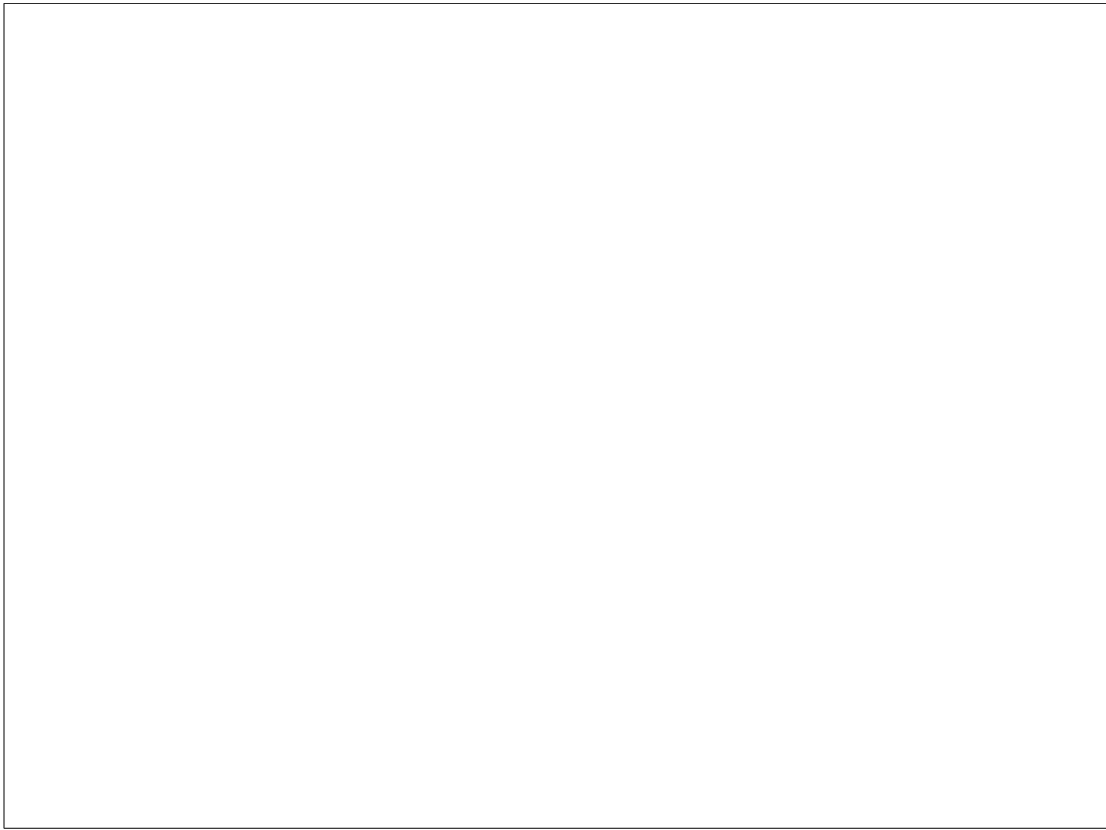
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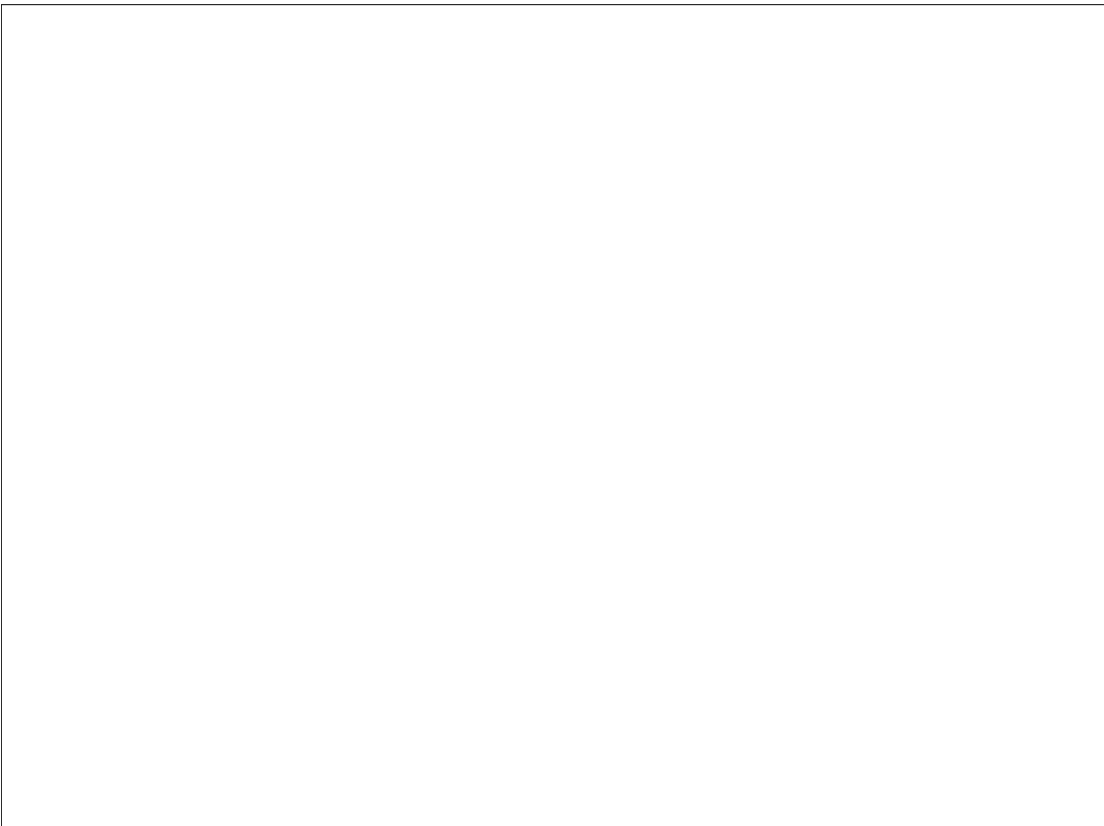
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