

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 1.5 mi. W of E. edge Reservation → W ~ 1 mi.  
(UTM coordinates, lat-long, and/or TRS, map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 03 Transect length: 1.34 mi.

GPS Start-point: 523489 3754793 540m Start time: 0900 am  
(easting, northing, elevation in meters)

GPS End-point: 521755 3754783 539m End time: 1012 am  
(easting, northing, elevation in meters)

Start Temp: 26.5 °C End Temp: 33.7 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

WCSP                      CORA                      BTSP  
 UTA stans.              BGGN  
 RTHA                      BAOW

Page: \_\_\_\_\_ of \_\_\_\_\_  
 Transect number: 03

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE w. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~2.5 W. of E. edge of Reservation → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 08 Transect length: 1.29 mi.

GPS Start-point: 521732 3754731 519m Start time: 1028 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 523446 3754745 536m End time: 1148 am/pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 38 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>522174</u>	<u>3754732</u>	<u>Scat</u>	<u>Class 4</u>
2				
3				
4				
5				
6				
7				
8				

CACW

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 08

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE w. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~1.5 W. of E. edge of Reservoir → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 13 Transect length: 1.36mi.

GPS Start-point: 523504 3754694 519m Start time: 1206 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521692 3754675 528m End time: 1310 am/pm  
(easting, northing, elevation in meters)

Start Temp: 38 °C End Temp: 36 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				<u>None</u>		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>522389</u>	<u>3754676</u>	<u>Scat</u>	<u>Class 3 (adult tort)</u>
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 13

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/11 Survey biologist(s): ROB JOHNSON ROB.B.JOHNSON@AM.ETC.COM  
(day, month, year) (name, email, and phone number)

Site description: 5 CE WEST OF DEVERS  
(project name and size; general location)

County: RIVERSIDE Quad: \_\_\_\_\_ Location: 1.5 MI WEST OF EAST POPULATION BNDARY  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 15 Transect length: 1.3

GPS Start-point: 527503, 3754678 EL. 522 Start time: 12:10  am  pm  
(easting, northing, elevation in meters)

GPS End-point: 521684, 3754659 EL. 529 End time: 13:12  am  pm  
(easting, northing, elevation in meters)

Start Temp: 38 °C End Temp: 36 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1			NONE			
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

SA THAA HER

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/11 Survey biologist(s): Rob Johnson P.O.B. JOHANSON @Ampco.com  
(day/month/year) (name, email, and phone number)

Site description: 506 WEST OF DEVERS  
(project name and size; general location)

County: RIVERSIDE Quad: \_\_\_\_\_ Location: 1.5 MILE WEST OF ART RESUMATION 15068 → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 5 Transect length: \_\_\_\_\_

GPS Start-point: 523492, 3754774, EL. 540M Start time: 09:00 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521738, 3754757, EL. 524 End time: 10:15 am/pm  
(easting, northing, elevation in meters)

Start Temp: 26.5 °C End Temp: 33.7 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1			<del>09:00</del>			
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	<u>522846</u>	<u>3754775</u>	<u>BURROW - CLASS 3</u> <u>12 SCAT - CLASS 3</u> <u>1 SCAT - CLASS 4</u>	<u>TURTLE BURROW, CLASS 3 WITH</u> <u>12 SCAT INSIDE + OUTSIDE BURROW</u> 30 min X 15 min
2				
3				
4				
5				
6				
7				
8				

CA PUPIL  
CA TURTLE

DEAD SAVANNAH SPARROW  
WHITE-CROWNED SPARROW

TOUGER 10/1 522644, 3754776 PARROT NEST

Page: 1 of 1  
Transect number: 5

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/11 Survey biologist(s): ROB JOHNSON, ROB.B.JOHNSON@AMBA.COM  
(day, month, year) (name, email, and phone number)

Site description: SCENE WEST OF DEVERS  
(project name and size; general location)

County: RIVERSIDE Quad: \_\_\_\_\_ Location: 2.8 MILES WEST OF EAST RIVERSIDE ON BNDRY → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 10 Transect length: 1.29

GPS Start-point: 521783 3754708 EL535 Start time: 10:30 (am/pm)  
(easting, northing, elevation in meters)

GPS End-point: 523499 3754725 End time: 11:50 am/pm  
(easting, northing, elevation in meters)

Start Temp: 33.7 °C End Temp: 38 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>522157</u>	<u>3754713</u>	<u>BURROW - CUNY 4</u>	<u>ON BANK OF DRY STREAM - VERTICAL BANK UNDER "ROCK" 11" X 5" X 25"</u>
2				
3				
4				
5				
6				
7				
8				

522812, 3754722

Page: 1 of 1

Transect number: 10

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/2011 Survey biologist(s): L. RODRIGUEZ  
(day, month, year) (name, email, and phone number)

Site description: SCR WEST OF DEVERS  
(project name and size, general location)

County: RIVERSIDE Quad: \_\_\_\_\_ Location: 1.5 miles West of Reservation Edge.  
(UTM coordinates, lat-long, and/or TRS, map datum)

Circle one:  100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 12 Transect length: \_\_\_\_\_

GPS Start-point: 11952359E, 375499N 516BL Start time: 12:06 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 119521726E, 3754683N 527RL End time: 13:11 am/pm  
(easting, northing, elevation in meters)

Start Temp: 38 °C End Temp: \_\_\_\_\_ °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	None					
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	None			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/2011 Survey biologist(s): L. RODRIGUEZ  
(day, month, year) (name, email, and phone number)

Site description: SC 2 WEST OF DEVERS  
(project name and size; general location)

County: BUENA VISTA Quad: \_\_\_\_\_ Location: 2.8 WEST EDGE OF RESERVATION → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 7 Transect length: 1.4 miles

GPS Start-point: 1155217131E, 3754735N 577 EW Start time: 10:27 am pm  
(easting, northing, elevation in meters)

GPS End-point: 115523494E, 3754758N 534 EW End time: 11:40 am pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 30 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19/10/2011 Survey biologist(s): L. RODRIGUEZ  
(day, month, year) (name, email, and phone number)

Site description: SCE WEST OF DEVERS  
(project name and size; general location)

County: PUEBLO Quad: \_\_\_\_\_ Location: 1.5 MILE W. OF EAST EDGE → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one, 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 2 Transect length: 1.3 miles

GPS Start-point: 115523488E, 3754801N, 5416W Start time: 9:00 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 115521757E, 3754795N, 5406W End time: 10:13 am/pm  
(easting, northing, elevation in meters)

Start Temp: 26.7 °C End Temp: 33.7 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, Unknown)</small>	Existing tag # and color, if present
1	NONE				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	NONE		
2			
3			
4			
5			
6			
7			
8			

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19-10-11 Survey biologist(s): GREEN WINTON  
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS  
(project name and size; general location)

County: TRIV. Quad: \_\_\_\_\_ Location: 1.5 W. OF EAST RES. EDGE WEST  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 04 Transect length: 1.4 mi

GPS Start-point: 0523493-3754788-1887 FT Start time: 0900 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 0521748-3754775-1828 FT End time: 1015 am/pm  
(easting, northing, elevation in meters)

Start Temp: 26.5 °C End Temp: 33.7 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19-10-11 Survey biologist(s): GREG WINTON  
(day, month, year) (name, email, and phone number)

Site description: SCE - W. OF DEVERS  
(project name and size; general location)

County: RIV. Quad: \_\_\_\_\_ Location: 2.5 W. OF EAST EDGE OF RES.  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 09 Transect length: 1.54mi

GPS Start-point: 0521722-3754716 - 1,825 FT Start time: 1030  am  pm  
(easting, northing, elevation in meters)

GPS End-point: 0523496-3754739 - 1,825 FT End time: 1148  am  pm  
(easting, northing, elevation in meters)

Start Temp: 36 °C End Temp: 38 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

~~1~~  
 1  
 BUOW - PELLET  
 0523277 / 3754726  
 IN OPEN FIELD

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19-10-11 Survey biologist(s): GREG WINTON  
(day, month, year) (name, email, and phone number)

Site description: ScE - W. OF DEVERS  
(project name and size; general location)

County: Riv. Quad: \_\_\_\_\_ Location: 1.5 m. W. OF EAST EDGE OF RES.  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 14 Transect length: 0.70 mi

GPS Start-point: 0523500-3754692-1820 FT Start time: 1206 am/pm   
(easting, northing, elevation in meters)

GPS End-point: 0521685-3754668-1820 FT End time: 1313 am/pm   
(easting, northing, elevation in meters)

Start Temp: 38 °C End Temp: 36 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19 Oct 2011 Survey biologist(s): Matt. Anabony @ a.neci.com  
(day, month, year) (name, email, and phone number)

Site description: 300 W of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~1.5 mi west of east edge → west  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 1 Transect length: 1.3 mi.

GPS Start-point: 523480, 3754812, 540 Start time: 9:03  am /  pm  
(easting, northing, elevation in meters)

GPS End-point: 521755, 3754804, 540 End time: 10:16  am /  pm  
(easting, northing, elevation in meters)

Start Temp: 27 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

RTHA

Page: 1 of 1

Transect number: 1

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19 Oct 2011 Survey biologist(s): Matt, Amberg@amec.com, 949 2332134  
(day, month, year) (name, email, and phone number)

Site description: SCE w/ of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~2.8 mi west of east edge → east  
(UTM coordinates, lat-long, and/or TRS, map datum)

Circle one:  100% coverage  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 6 Transect length: 1.3

GPS Start-point: 521735, 3754746, 525 Start time: 10:30  am  pm  
(easting, northing, elevation in meters)

GPS End-point: 523494, 3754764, 541 End time: 11:51  am  pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 38 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 6

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 19 Oct 2011 Survey biologist(s): Matt. Amalony@amec.com, 9492332134  
(day, month, year) (name, email, and phone number)

Site description: SE W of Devers  
(project name and size, general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~1.5 west of east edge → west  
(UTM coordinates, lat-long, and/or GPS, map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 11 Transect length: 1.3 mi.

GPS Start-point: 523500, 3754713, 526 Start time: 12:05 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521725, 3754696, 527 End time: 1:15 am/pm  
(easting, northing, elevation in meters)

Start Temp: 38 °C End Temp: \_\_\_\_\_ °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1	None					
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1	None			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 11

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~2.8 mi. W of E. edge Reservation →W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 08 Transect length: 0.80 mi.

GPS Start-point: 521683 375473 542m Start time: 0901 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 520568 375473<sup>38</sup> 575m End time: 0938 am/pm  
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 29 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 08

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SC6 W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~3.5 mi W. of E. edge Reservation **E**  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 03 Transect length: 0.87mi

GPS Start-point: 520572 3754775 578m Start time: 0808 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521670 3754783 563m End time: 0851 am/pm  
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: \_\_\_\_\_ °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 03

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): N. Moorhutch  
(day, month, year) (name, email, and phone number)

Site description: SCE w. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~3.5 mi. W. of E edge Reservation → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 13 Transect length: 0.83 mi.

GPS Start-point: 520561 3754683 573m Start time: 0959 am  
(easting, northing, elevation in meters)

GPS End-point: 521724 3754687 519m End time: 1038 am  
(easting, northing, elevation in meters)

Start Temp: 29.5 °C End Temp: 31 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			NONE	
2				
3				
4				
5				
6				
7				
8				

- D Larrea
  - D Hymenoclea
  - Psoralea
  - Lycium sp.
  - 0.30 mi. W of W. end
  - D Encelia farinosa
  - Ziziphys
  - Chrysothamnus paniculatus
  - Artemisia cal.
  - D Yucca schottigera
  - Eriogonum fasc.
  - Opuntia basilaris
  - Accumbens
  - Acacia greggii
  - Cylindropuntia sp.
  - Ephedra cal.
  - Echinocereus eng.
- Page: \_\_\_\_\_ of \_\_\_\_\_  
Transect number: 13

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 0.7 mi. E. of Reservation → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sample Area size to be surveyed: \_\_\_\_\_ Transect #: 03 Transect length: 0.83 mi.

GPS Start-point: 527106 3754716 452m Start time: 1158 (am/pm)  
(easting, northing, elevation in meters)

GPS End-point: 525904 3754795 478m End time: 1227 (am/pm)  
(easting, northing, elevation in meters)

Start Temp: 33.5 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 03

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE w. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: E. edge of Reservation → E ~0.7mi.  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 08 Transect length: 0.82mi.

GPS Start-point: 525908 3754745 476m Start time: 1235 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 527020 3754662 446m End time: 1303 am/pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: \_\_\_\_\_ °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				NONE
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 08

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 3.5m. W. OF EAST EDGE OF PEG.  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 14 Transect length: 0.83 m

GPS Start-point: 0520556 - 3754665 - 2,005 FT Start time: 1000  am  pm  
(easting, northing, elevation in meters)

GPS End-point: 0521726 - 3754675 - 1833 FT End time: 1040  am  pm  
(easting, northing, elevation in meters)

Start Temp: 29°C End Temp: 31°C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 2.8 M. W. OF EAST EDGE OF RES.  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 09 Transect length: .8 mi

GPS Start-point: 0521680-3754731-1858 FT Start time: 0903 @ am/pm  
(easting, northing, elevation in meters)

GPS End-point: 0520569-3754713-577 m End time: 0938 @ am/pm  
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 29 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160 mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 3.5 WEST OF EAST EDGE OF RES  
(UTM coordinates, lat-long, and/or TRS; map datum) EAST →

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 04 Transect length: 0.87mi

GPS Start-point: 0520573-3754772 - 1990 FT Start time: 0808  am/pm  
(easting, northing, elevation in meters)

GPS End-point: 0521673-3754777 1950 FT End time: 0854  am/pm  
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: 25 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3	<u>NONE</u>					
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments	
	Easting	Northing			
1					
2					
3	<u>NONE</u>				
4					
5					
6					
7					
8					

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 7/10 mi. EAST OF RES. WEST →  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 04 Transect length: 0.86 mi

GPS Start-point: 6527073-3754713 - 1590 FT Start time: 7:20 am  
(easting, northing, elevation in meters)

GPS End-point: 6525905-3754787 - 1655 FT End time: 12:29 pm  
(easting, northing, elevation in meters)

Start Temp: 33.5 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160 mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 1/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: EAST OF EDGE OF RES. 0.7 mi EAST  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 09 Transect length: 0.83 mi

GPS Start-point: 0825910-3754738-1655 FT Start time: 1235 am/pm   
(easting, northing, elevation in meters)

GPS End-point: 0827006-3754654-1566 FT End time: 1305 am/pm   
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 36 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: .7 mi. EAST OF RBS. → WEST  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 13 Transect length: .77 mi

GPS Start-point: 0526948 - 3754619 - 1558 FT Start time: 1320 am/pm   
(easting, northing, elevation in meters)

GPS End-point: 0525912 - 3754691 - 1640 FT End time: 1347 am/pm   
(easting, northing, elevation in meters)

Start Temp: 36 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): R. Johnson P.O. B. JOHNSON@AMSC.COM  
(day, month, year) (name, email, and phone number)  
 Site description: SCE W. of Devers  
(project name and size; general location)  
 County: Riverside Quad: \_\_\_\_\_ Location: 0.7 mi EAST OF ROSEN V. → W  
(UTM coordinates, lat-long, and/or TRS; map datum)  
 Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 11 Transect length: 0.7 mi  
 GPS Start-point: 526982, 3754639 E: 443 M Start time: 1:20 am/pm  
(easting, northing, elevation in meters)  
 GPS End-point: 525910, 3757714 E: 474 M End time: 13:46 am/pm  
(easting, northing, elevation in meters)  
 Start Temp: 36 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1  
 Transect number: 11

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): R. Johnson Rob. B. JOHNSON @ AMBC.COM  
(day, month, year) (name, email, and phone number)  
 Site description: SCE W. of Devers  
(project name and size; general location)  
 County: Riverside Quad: \_\_\_\_\_ Location: 2.8 mi west of East Potosi V. BNDAY → W  
(UTM coordinates, lat-long, and/or TRS; map datum)  
 Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 10 Transect length: 0.8 mi  
 GPS Start-point: 521691 3754716, EL = 533 Start time: 09:03 am/pm  
(easting, northing, elevation in meters)  
 GPS End-point: 520572 3754702, EL = 577 End time: 09:38 am/pm  
(easting, northing, elevation in meters)  
 Start Temp: 25 °C End Temp: 29 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: 6 of 1

Transect number: 10

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): R. Johnson  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~ 3.5 miles W of East Edge of POCINATION → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 5 Transect length: 0.87 mi

GPS Start-point: 520575, 3754763, EL = 586M Start time: 8:08 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521677, 3754764, EL = 559 End time: 8:53 am/pm  
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: 25 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 5

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): R. Johnson  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 3.5 mi. west of CRT POS. DIVISION #2 DRY → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 15 Transect length: 0.83 mi

GPS Start-point: 520,560 3754655 EL = 574 M Start time: 10:00 am pm  
(easting, northing, elevation in meters)

GPS End-point: 521731, ~~3754660~~ 3754660, EL = 530 M End time: 10:40 am pm  
(easting, northing, elevation in meters)

Start Temp: 29.5 °C End Temp: 31.0 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2			NONE			
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2			NONE	
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 15

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): R. Johnson R.P.B. JOHNSON@AMSC.COM  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 0.7 mi EAST OF PYSOTLV. → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 1 Transect length: \_\_\_\_\_

GPS Start-point: 527125, 3754734, EL = 445M Start time: 12:00 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 525904, 3754822, EL = 482M End time: 12:30 am/pm  
(easting, northing, elevation in meters)

Start Temp: 33.5 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes/No/Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2			NONE			
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2			NONE	
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 1

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): R. Johnson  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: EAST EDGE RESERVATION → EAST  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 6 Transect length: 0.7mi

GPS Start-point: 525906, 3754768, EL. 477m Start time: 12:35 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 527046, 3754081, EL. = 444m End time: 13:05 am/pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 30 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2			NONE			
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2			NONE	
3				
4				
5				
6				
7				
8				

Page: 1 of 1  
 Transect number: 6

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Matt Amalony  
(day, month, year) (name, email, and phone number)

Site description: SCE w. Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~3.5 mi west of east edge → east  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 1 Transect length: 0.8 mi

GPS Start-point: 520572, 3754805, 580 Start time: 8:09  am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521123, 3754734, 563 End time: 8:56  am/pm  
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: 25 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 1

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Matt Amalony  
(day, month, year) (name, email, and phone number)

Site description: SCE w. Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~2.8 mi west of east edge → west  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 6 Transect length: 0.73 mi.

GPS Start-point: 521122, 3754733, 560 Start time: 9:04 @ am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521123, 3754734, 577 End time: 9:41 @ am/pm  
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 29 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None					
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None			
2				
3				
4				
5				
6				
7				
8				

Page: 1 of 1

Transect number: 6

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Matt Amalony  
(day, month, year) (name, email, and phone number)

Site description: SCE w. Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~3.5 mi. west of east edge → east  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 11 Transect length: 0.9 mi.

GPS Start-point: 520668, 3754330, 573 Start time: 10:00 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521726, 3754712, 574 End time: 10:41 am/pm  
(easting, northing, elevation in meters)

Start Temp: 29 °C End Temp: 31 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 11

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Matt Amalony  
(day, month, year) (name, email, and phone number)

Site description: SCE w. Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~0.7 mi east of reservation → west  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 5 Transect length: 0.83 mi.

GPS Start-point: 527064, 3754692, 454 Start time: 12:00 am/pm   
(easting, northing, elevation in meters)

GPS End-point: 525907, 3754775, 477 End time: 12:30 am/pm   
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 5

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Matt Amalong  
(day, month, year) (name, email, and phone number)

Site description: SCE w. Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: East edge of reservation → east  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 10 Transect length: 0.8 mi

GPS Start-point: 525914, 3754725, 475 Start time: 12:37 am/pm   
(easting, northing, elevation in meters)

GPS End-point: 526994, 3754647, 447 End time: 1:06 am/pm   
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 36 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	<u>None</u>				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>None</u>		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1  
 Transect number: 10

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Matt Amalony  
(day, month, year) (name, email, and phone number)

Site description: SCE w. Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~0.7 mi east of Reservation → west  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 14 Transect length: 0.8 mi

GPS Start-point: 526932, 3754609, 446 Start time: 1:22 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 525916, 3754692, 474 End time: 1:50 am/pm  
(easting, northing, elevation in meters)

Start Temp: 36 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1	None				
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	None		
2			
3			
4			
5			
6			
7			
8			

Page: 1 of 1

Transect number: 14

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~ 3.5 mi. W of E edge of res. → E  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 2 Transect length: 0.87 mi

GPS Start-point: 520570E, 3754794, 579 m Start time: 8:08 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521668E, 3754800, 563 m End time: 8:52 am/pm  
(easting, northing, elevation in meters)

Start Temp: 21 °C End Temp: 25 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1			None		
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1		None	
2			
3			
4			
5			
6			
7			
8			

YRWA NOFL BUOW BSGN CALT COFO SBLI Coachwhip  
 WCSP CAQU CORA AMPI COHU DNLI - young GPSed by Nate  
 CACW PRFA BEWR BTSP LOSH  
 HOFI RTHA WEME SAGS MODD  
 AVCO  
 BTJA

Page: \_\_\_\_\_ of \_\_\_\_\_  
 Transect number: 2

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~2.8mi. W of E edge of res. ←  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 7 Transect length: 0.8 mi.

GPS Start-point: 521676 E, 3754755 N, 549 m Start time: 9:03 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 520568 E, 3754719 N, 576 m End time: 9:38 am/pm  
(easting, northing, elevation in meters)

Start Temp: 25 °C End Temp: 29 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1				None		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			None	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 7

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~3.5 mi. W of E edge of res. →  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 12 Transect length: 0.87 mi.

GPS Start-point: 520557 E, 3754690 N, 573m Start time: 9:59 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 521722 E, 3754694 N, 574m End time: 10:37 am/pm  
(easting, northing, elevation in meters)

Start Temp: 29.5 °C End Temp: 31 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1	<u>521461</u>	<u>3754694</u>	<u>Burrow (pocket)</u>	<u>Class 4, SW facing, 13"x7"x18" deep</u>
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 12

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~ 0.7 mi E of res ←  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 2 Transect length: 0.7 mi.

GPS Start-point: 527113 E, 3754724 N, 448 m Start time: 11:59 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 525906 E, 3754810 N, 480 m End time: 12:27 am/pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1				None		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			None	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 2

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: E edge of reservation →  
(UTM coordinates, lat/long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 7 Transect length: \_\_\_\_\_

GPS Start-point: 525906E, 3754754N, 476m Start time: 12:34 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 527031E, 3759671N, 447m End time: 1:04 am/pm  
(easting, northing, elevation in meters)

Start Temp: 34 °C End Temp: 36 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1				None		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			None	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 7

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 20/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~0.7 mi E of reservation  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one:  100% coverage or  Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 12 Transect length: \_\_\_\_\_

GPS Start-point: 526964E 3754630N, 443m Start time: 1:20 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 525911E 3754705N, 474m End time: 1:47 am/pm  
(easting, northing, elevation in meters)

Start Temp: 36 °C End Temp: 34 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1				None		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			None	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 12

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 2/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE w. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: E. end of S. Line → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 04 Transect length: 1.41 mi.

GPS Start-point: 532283 3754195 414 m Start time: 0840 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 530261 3754319 398 m End time: 0934 am/pm  
(easting, northing, elevation in meters)

Start Temp: 19 °C End Temp: 27 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCE > 160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

BGGN

Ferocactus  
Ambrosia dumosa

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 04

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 1/10/11 Survey biologist(s): N. Moorhatch  
(day, month, year) (name, email, and phone number)

Site description: SCE w. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~1.4 mi. W of E. end of S. line → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 08 Transect length: 1.71 mi.

GPS Start-point: 530254 3754324 389m Start time: 10:23 am  
(easting, northing, elevation in meters)

GPS End-point: 527462 3754615 423m End time: 11:20 am  
(easting, northing, elevation in meters)

Start Temp: 29 °C End Temp: 33 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1				NONE		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1			NONE	
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 08

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 21, 2011 Survey biologist(s): Zsolt Kahanecz  
(day, month, year) (name, email, and phone number)

Site description: scr - west of Denver  
(project name and size, general location)  
 County: Div. Quad: \_\_\_\_\_ Location: ~1.4 m west of E. end of south line -> west.  
(UTM coordinates, lat/long, and/or TRS, map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 6 Transect length: 1.7 m

GPS Start-point: 530257 / 3754302 393 m Start time: 10:25 am  
(easting, northing, elevation in meters)

GPS End-point: 527935 / 3754594 420 m End time: 11:20 am  
(easting, northing, elevation in meters)

Start Temp: 29 °C End Temp: 33 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Blue-gray Gn / ante. G.S. / EuCo Dove  
 Blakely-tailed J.R. / CoRa / BTH sparrow  
 CAQU / Syl. audu. / No Mo / RTHa

Page: \_\_\_\_\_ of \_\_\_\_\_  
 Transect number: 6

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: Oct. 21, 2011 Survey biologist(s): Zsolt Kahancaza  
(day, month, year) (name, email, and phone number)

Site description: west of Devers - see  
(project name and size; general location)

County: Riv. Quad: \_\_\_\_\_ Location: E. end of southern line → W  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 2 Transect length: 1.43

GPS Start-point: 532259 / 3754180 409m Start time: 8:40 am pm  
(easting, northing, elevation in meters)

GPS End-point: 530255 / 3754302 391m End time: 9:38 am pm  
(easting, northing, elevation in meters)

Start Temp: 19 °C End Temp: 27 °C

**Live Tortoises**

Detection number	GPS location Easting Northing	Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1					
2					
3					
4					
5					
6					
7					
8					

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing	Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			
2			
3			
4			
5			
6			
7			
8			

ROWR wood rat  
 BEWR nests  
 WC SP UT ST  
 HOFI

Page: \_\_\_\_\_ of \_\_\_\_\_  
 Transect number: 2

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 21/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: E end of Southern Line ←  
(UTM coordinates, lat/long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 1 Transect length: ~1.4 mi.

GPS Start-point: 532286 E, 3754168 N, 407 m Start time: 8:40 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 530260 E, 3754293 N 391 m End time: 9:36 am/pm  
(easting, northing, elevation in meters)

Start Temp: 19 °C End Temp: 27 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1				None		
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1			None	
2				
3				
4				
5				
6				
7				
8				

BTSP HOF1 EVST BGGN  
 BVOW BEWR CATH HOSP  
 RTHA HOLA BAQU NOMO  
 WCSP VERD CAEW ANHU  
 ROWR EUCD CORA

SBL1 WTAS  
 WEWH BTJA  
 AVCO

Page: \_\_\_\_\_ of \_\_\_\_\_  
 Transect number: 1

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 21/10/11 Survey biologist(s): Stephen J. Myers  
(day, month, year) (name, email, and phone number)

Site description: SCE West of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: ~1.4 mi. W of E end of South Line  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 5 Transect length: ~1.8 mi

GPS Start-point: 530 260 E, 3754 292 N, 393 m Start time: 10:25 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 527 831 E, 3754 585 N, 420 m End time: 11:24 am/pm  
(easting, northing, elevation in meters)

Start Temp: 29 °C End Temp: 33 °C

**Live Tortoises**

Detection number	GPS location Easting Northing		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL >160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location Easting Northing		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: 5

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 2/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: 1.4 mi WEST OF EAST END OF SOUTH LINE  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 07 Transect length: 1.82 mi

GPS Start-point: 6530255-3754312-1389 FT Start time: 1022 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 6527844-3754608-1462 FT End time: 1127 am/pm  
(easting, northing, elevation in meters)

Start Temp: 29 °C End Temp: 33 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow: all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_

**USFWS 2010 DESERT TORTOISE PRE-PROJECT SURVEY DATA SHEET**

Please submit a completed copy to the action agency and local USFWS office within 30-days of survey completion

Date of survey: 21/10/11 Survey biologist(s): G. Winton  
(day, month, year) (name, email, and phone number)

Site description: SCE W. of Devers  
(project name and size; general location)

County: Riverside Quad: \_\_\_\_\_ Location: WEST EAST END OF S. LINE WEST →  
(UTM coordinates, lat-long, and/or TRS; map datum)

Circle one: 100% coverage or Sampling Area size to be surveyed: \_\_\_\_\_ Transect #: 03 Transect length: 1.47 mi

GPS Start-point: 0532289-3754185-1446 FT Start time: 0840 am/pm  
(easting, northing, elevation in meters)

GPS End-point: 0530258-3754313-1388 FT End time: 0938 am/pm  
(easting, northing, elevation in meters)

Start Temp: 19 °C End Temp: 27 °C

**Live Tortoises**

Detection number	GPS location		Time	Tortoise location <small>(in burrow, all of tortoise beneath plane of burrow opening, or not in burrow)</small>	Approx MCL > 160-mm? <small>(Yes, No, or Unknown)</small>	Existing tag # and color, if present
	Easting	Northing				
1						
2						
3						
4						
5						
6						
7						
8						

**Tortoise Sign (burrows, scats, carcasses, etc)**

Detection number	GPS location		Type of sign <small>(burrows, scats, carcass, etc)</small>	Description and comments
	Easting	Northing		
1				
2				
3				
4				
5				
6				
7				
8				

Page: \_\_\_\_\_ of \_\_\_\_\_

Transect number: \_\_\_\_\_