Storm Summary Statistics:
Storm precip began between 800 – 900 hrs MST Thursday November 17, 2016 (DOY 322)
Storm precipitation ended: 2200 hrs MST Thursday, November 17, 2016 (DOY 322)
Storm duration = 15 hrs
Storm total water content at SASP = 15 mm (0.6 inches)
Mean Precip intensity: 0.65 mm/hr
Max Precip intensity: 5 mm/hour on Thursday November 17, 2016 (DOY 322).
Max gain in snow depth at SASP = 18.2 cm (7.2 inches)
Max gain in snow depth at SBSP (wind affected) = 5.8 cm (2.3 inches) fell as snow
Peak Gust at PTSP at: 720 hrs MST Thursday, November 17, 2016 (DOY 322)

Storm Wind Rose (Putney Study Plot data):

CGAS Putney Study Plot 12,323 ft.
No. of hours: 15
No. of missing hours: 0
From hour ending: Nov 17, 2016 0600 MST
To: Nov 17, 2016 2200 MST
Avg. wind dir: 294
Avg. wind spd: 25.6 mph
Peak gust: 61.8 mph

Average Hourly
Wind Speed(mph)

>45
22-45
11-22
6-11
0-6
calm
2016/2017 WINTER STORM #2

2016-17 Winter Storm #2: November 20-22, 2016
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 2300 – 2400 hrs MST Sunday November 20, 2016 (DOY 325)
Storm precipitation ended: 1000 hrs MST Tuesday, November 22, 2016 (DOY 327)
Storm duration = 36 hrs
Storm total water content at SASP = 33 mm (1.3 inches)
Mean Precip intensity: 0.92 mm/hr
Max Precip intensity: 4 mm/hour on Monday November 21, 2016 (DOY 326).
Max gain in snow depth at SASP = 36.6 cm (14.4 inches)
Max gain in snow depth at SBSP (wind affected) = 30 cm (11.8 inches)
Peak Gust at PTSP at: 615 hrs MST Tuesday, November 22, 2016 (DOY 327)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.
No. of hours: 36 From hour ending: Nov 20, 2016 2300 MST
No. of missing hours: 0 To: Nov 22, 2016 1000 MST
Avg. wind dir: 215
Avg. wind spd: 17.7 mph
Peak gust: 49.7 mph

Average Hourly Wind Speed (mph)
Storm Summary Statistics:
Storm precip began between 2200 – 2300 hrs MST Saturday November 26, 2016 (DOY 331)
Storm precipitation ended: 2300 hrs MST Tuesday, November 29, 2016 (DOY 334)
Storm duration = 74 hrs
Storm total water content at SASP = 52 mm (2.0 inches)
Mean Precip intensity: 0.70 mm/hr
Max Precip intensity: 3 mm/hour on multiple occasions.
Max gain in snow depth at SASP = 45 cm (17.7 inches)
Max gain in snow depth at SBSP (wind affected) = 32.8 cm (12.9 inches)
Peak Gust at PTSP at: 149 hrs MST Sunday, November 27, 2016 (DOY 332)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 74
No. of missing hours: 0
From hour ending: Nov 26, 2016 2200 MST
To: Nov 29, 2016 2300 MST
Avg. wind dir: 294
Avg. wind spd: 19.9 mph
Peak gust: 68.8 mph

Average Hourly Wind Speed (mph)
2016/2017 WINTER STORM #4

2016-17 Winter Storm #4: December 11, 2016
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 100 – 200 hrs MST Sunday December 11, 2016 (DOY 346)
Storm precipitation ended: 1000 hrs MST Sunday, December 11, 2016 (DOY 346)
Storm duration = 10 hrs
Storm total water content at SASP = 22 mm (0.9 inches)
Mean Precip intensity: 1.83 mm/hr
Max Precip intensity: 4 mm/hour on multiple occasions.
Max gain in snow depth at SASP = 12.7 cm (5.0 inches)
Max gain in snow depth at SBSP (wind affected) = NA
Peak Gust at PTSP at: 802 hrs MST Sunday, December 11, 2016 (DOY 346)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 12 From hour ending: Dec 11, 2016 0100 MST
No. of missing hours: 0 To: Dec 11, 2016 1200 MST
Avg. wind dir: 280
Avg. wind spd: 26.7 mph
Peak gust: 70.0 mph

Average Hourly Wind Speed (mph)
2016/2017 WINTER STORM #5

Storm Summary Statistics:
Storm precip began between 1000 – 1100 hrs MST Thursday December 15, 2016 (DOY 350)
Storm precipitation ended: 2300 hrs MST Saturday, December 17, 2016 (DOY 352)
Storm duration = 62 hrs
Storm total water content at SASP = 59 mm (2.3 inches)
Mean Precip intensity: .95 mm/hr
Max Precip intensity: 3 mm/hour on multiple occasions.
Max gain in snow depth at SASP = 47.9 cm (18.9 inches)
Max gain in snow depth at SBSP (wind affected) = NA
Peak Gust at PTSP at: 0020 hrs MST Sunday, December 17, 2016 (DOY 352)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.
No. of hours: 62
From hour ending: Dec 15, 2016 1000 MST
To: Dec 17, 2016 2300 MST
No. of missing hours: 0
Avg. wind dir: 244
Avg. wind spd: 27.4 mph
Peak gust: 90.1 mph

Average Hourly Wind Speed(mph)
2016/2017 WINTER STORM #6

2016-17 Winter Storm #6: December 22-23, 2016
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 0000– 0100 hrs MST Thursday December 22, 2016 (DOY 357)
Storm precipitation ended: 0800 hrs MST Friday, December 23, 2016 (DOY 358)
Storm duration = 32 hrs
Storm total water content at SASP = 21 mm (0.8 inches)
Mean Precip intensity: 0.64 mm/hr
Max Precip intensity: 2 mm/hour on multiple occasions.
Max gain in snow depth at SASP = 20.3 cm (8.0 inches)
Max gain in snow depth at SBSP (wind affected) = NA
Peak Gust at PTSP at: 1408 hrs MST Thursday, December 22, 2016 (DOY 357)

Storm Wind Rose (Putney Study Plot data):

- No. of hours: 32
- No. of missing hours: 0
- From hour ending: Dec 22, 2016 0000 MST
- To: Dec 23, 2016 0700 MST
- Avg. wind dir: 197
- Avg. wind spd: 16.1 mph
- Peak gust: 42.2 mph
Storm Summary Statistics:
Storm precip began between 1700–1800 hrs MST Saturday December 24, 2016 (DOY 359)
Storm precipitation ended: 1700 hrs MST Sunday, December 25, 2016 (DOY 360)
Storm duration = 25 hrs
Storm total water content at SASP = 20 mm (0.8 inches)
Mean Precip intensity: 0.80 mm/hr
Max Precip intensity: 3 mm/hour at 2000 on Saturday December 24, 2016 (DOY 359)
Max gain in snow depth at SASP = 12.4 cm (4.9 inches)
Max gain in snow depth at SBSP (wind affected) = 5.4 cm (2.1 inches)
Peak Gust at PTSP at: 2146 hrs MST Saturday, December 24, 2016 (DOY 359)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.
No. of hours: 25  From hour ending: Dec 24, 2016 1700 MST
No. of missing hours: 0  To: Dec 25, 2016 1700 MST
Avg. wind dir: 217
Avg. wind spd: 29.4 mph
Peak gust: 96.4 mph

Average Hourly Wind Speed (mph)

>45
22–45
11–22
6–11
0–6
calm
2016/2017 WINTER STORM #8

Storm Summary Statistics:
Storm precip began between 200 – 300 hrs MST Wednesday January 4, 2017 (DOY 4)
Storm precipitation ended: 400 hrs MST Friday, January 6, 2017 (DOY 6)
Storm duration = 51 hrs
Storm total water content at SASP = 42 mm (1.7 inches)
Mean Precip intensity: 0.82 mm/hr
Max Precip intensity: 2 mm/hour on multiple occasions
Max gain in snow depth at SASP = 36.9 cm (14.5 inches)
Max gain in snow depth at SBSP (wind affected) = NA
Peak Gust at PTSP at: 923 hrs MST Thursday, January 5, 2017 (DOY 5)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 51
No. of missing hours: 0
From hour ending: Jan 04, 2017 0200 MST
To: Jan 06, 2017 0400 MST

Avg. wind dir: 285
Avg. wind spd: 29.3 mph
Peak gust: 83.5 mph

Average Hourly Wind Speed (mph)
2016/2017 WINTER STORM #9

2016-17 Winter Storm #9: January 8-9, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 900 – 1000 hrs MST Sunday January 8, 2017 (DOY 8)
Storm precipitation ended: 2100 hrs MST Monday, January 9, 2017 (DOY 9)
Storm duration = 37 hrs
Storm total water content at SASP = 38 mm (1.5 inches)
Mean Precip intensity: 1.03 mm/hr
Max Precip intensity: 3 mm/hour on multiple occasions
Max gain in snow depth at SASP = 26.6 cm (10.5 inches)
Max gain in snow depth at SBSP (wind affected) = NA
Peak Gust at PTSP at: 1730 hrs MST Monday, January 9, 2017 (DOY 9)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.

- No. of hours: 37
- No. of missing hours: 0
- From hour ending: Jan 08, 2017 0900 MST
- To: Jan 09, 2017 2100 MST
- Avg. wind dir: 241
- Avg. wind spd: 25.7 mph
- Peak gust: 78.9 mph

Average Hourly Wind Speed (mph)
**2016/2017 WINTER STORM #10**

**2016-17 Winter Storm #10: January 12-14, 2017**
Senator Beck Basin Study Area, at Red Mountain Pass, CO

---

**Storm Summary Statistics:**
- **Storm precip began** between 1000 – 1100 hrs MST Thursday January 12, 2017 (DOY 12)
- **Storm precipitation ended:** 1100 hrs MST Saturday, January 14, 2017 (DOY 14)
- **Storm duration = 50 hrs**
- **Storm total water content at SASP = 32 mm (1.3 inches)**
- **Mean Precip intensity:** 0.64 mm/hr
- **Max Precip intensity:** 3 mm/hour on multiple occasions
- **Max gain in snow depth at SASP = 31.3 cm (12.3 inches)**
- **Max gain in snow depth at SBSP (wind affected) = NA**
- **Peak Gust at PTSP at:** 1419 hrs MST Thursday, January 12, 2017 (DOY 12)

**Storm Wind Rose (Putney Study Plot data):**

```
CSAS Putney Study Plot 12,323 ft.

No. of hours: 50
No. of missing hours: 0

From hour ending: Jan 12, 2017 1000 MST
To: Jan 14, 2017 1100 MST

Avg. wind dir: 186
Avg. wind spd: 17.7 mph
Peak gust: 43.2 mph
```

---

**Average Hourly Wind Speed (mph):**

- >45
- 22-45
- 11-22
- 6-11
- 0-6
- calm
**2016/2017 WINTER STORM #11**

**2016-17 Winter Storm #11: Jan 20-23, 2017**

Senator Beck Basin Study Area, at Red Mountain Pass, CO

---

**Storm Summary Statistics:**

- **Storm precip began** between 1900 – 2000 hrs MST Friday January 20, 2017 (DOY 20)
- **Storm precipitation ended:** 2000 hrs MST Monday, January 23, 2017 (DOY 23)
- **Storm duration** = 74 hrs
- **Storm total water content at SASP** = 52 mm (2.0 inches)
- **Mean Precip intensity:** 0.70 mm/hr
- **Max Precip intensity:** 4 mm/hour on January 21 between 1800 – 1900 hrs
- **Max gain in snow depth at SASP** = 38.7 cm (15.2 inches)
- **Max gain in snow depth at SBSP** (wind affected) = NA
- **Peak Gust at PTSP at:** 1029 hrs MST Thursday, January 23, 2017 (DOY 23)

**Storm Wind Rose (Putney Study Plot data):**

- **CSAS Putney Study Plot 12,323 ft.**
- **No. of hours:** 74
- **No. of missing hours:** 0

---

**Average Hourly Wind Speed (mph):**

- >45
- 22-45
- 11-22
- 6-11
- 0-6
- calm
2016/2017 WINTER STORM #12
2016-17 Winter Storm #12: January 24-25, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 0700 – 0800 hrs MST Tuesday January 24, 2017 (DOY 24)
Storm precipitation ended: 2400 hrs MST Wednesday, January 25, 2017 (DOY 25)
Storm duration = 42 hrs
Storm total water content at SASP = 16 mm (0.6 inches)
Mean Precip intensity: 0.38 mm/hr
Max Precip intensity: 2 mm/hour on multiple occasions on January 24
Max gain in snow depth at SASP = -1.5 cm (-.6 inches)
Max gain in snow depth at SBSP (wind affected) = NA
Peak Gust at PTSP at: 1326 hrs MST Tuesday, January 24, 2017 (DOY 24)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 42
No. of missing hours: 0
From hour ending: Jan 24, 2017 0700 MST
To: Jan 26, 2017 0000 MST
Avg. wind dir: 312
Avg. wind spd: 11.0 mph
Peak gust: 37.3 mph

Average Hourly Wind Speed (mph)
- >45
- 22-45
- 11-22
- 6-11
- 0-6
- calm
2016/2017 WINTER STORM #13

Storm Summary Statistics:

Storm precip began between 1100 – 1200 hrs MST Tuesday February 7, 2017 (DOY 38)

Storm precipitation ended: 800 hrs MST Wednesday, February 8, 2017 (DOY 39)

Storm duration = 22 hrs

Storm total water content at SASP = 15 mm (0.6 inches)

Mean Precip intensity: 0.68 mm/hr

Max Precip intensity: 3 mm/hour on Tuesday February 7 at 1500

Max gain in snow depth at SASP = 5.2 cm (2 inches)

Max gain in snow depth at SBSP (wind affected) = NA

Peak Gust at PTSP at: 309 hrs MST Wednesday, February 8, 2017 (DOY 39)

Storm Wind Rose (Putney Study Plot data):

CS65 Putney Study Plot 12,323 ft.

No. of hours: 22
No. of missing hours: 0
From hour ending: Feb 07, 2017 1100 MST
To: Feb 08, 2017 0800 MST

Avg. wind dir: 282
Avg. wind spd: 33.2 mph
Peak gust: 80.5 mph

Average Hourly Wind Speed (mph)
2016/2017 WINTER STORM #14
2016-17 Winter Storm #14: February 11-12, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 1400 – 1500 hrs MST Saturday February 11, 2017 (DOY 42)
Storm precipitation ended: 1800 hrs MST Sunday, February 12, 2017 (DOY 43)
Storm duration = 29 hrs
Storm total water content at SASP = 17 mm (0.7 inches)
Mean Precip intensity: 0.59 mm/hr
Max Precip intensity: 2 mm/hour on multiple occasions
Max gain in snow depth at SASP = 17.5 cm (6.9 inches)
Max gain in snow depth at SBSP (wind affected) = 24.3 cm (9.6 inches)
Peak Gust at PTSP at: 1631 hrs MST Saturday, February 11, 2017 (DOY 42)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 29 From hour ending: Feb 11, 2017 1400 MST
No. of missing hours: 0 To: Feb 12, 2017 1800 MST
Avg. wind dir: 198
Avg. wind spd: 12.8 mph
Peak gust: 46.7 mph

Average Hourly Wind Speed (mph)
Storm Summary Statistics:

Storm precip began between 0300 – 0400 hrs MST Thursday February 23, 2017 (DOY 54)

Storm precipitation ended: 2000 hrs MST Friday, February 24, 2017 (DOY 55)

Storm duration = 42 hrs

Storm total water content at SASP = 20 mm (0.8 inches)

Mean Precip intensity: 0.48 mm/hr

Max Precip intensity: 3 mm/hour on multiple occasions on Thursday February 23, 2017 (DOY 54)

Max gain in snow depth at SASP = 18.7 cm (7.4 inches)

Max gain in snow depth at SBSP (wind affected) = 12.9 cm (5.1 inches)

Peak Gust at PTSP at: 0805 hrs MST Thursday February 23, 2017 (DOY 42)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 42
No. of missing hours: 0
From hour ending: Feb 23, 2017 0300 MST
To: Feb 24, 2017 2000 MST

Avg. wind dir: 270
Avg. wind spd: 19.4 mph
Peak gust: 69.8 mph
2016/2017 WINTER STORM #16

2016-17 Winter Storm #16: February 27 - March 1, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 1000 – 1100 hrs MST Monday February 27, 2017 (DOY 58)
Storm precipitation ended: 0100 hrs MST Wednesday, March 1, 2017 (DOY 60)
Storm duration = 40 hrs
Storm total water content at SASP = 24 mm (0.9 inches)
Mean Precip intensity: 0.6 mm/hr
Max Precip intensity: 2 mm/hour on multiple occasions on Tuesday February 28, 2017 (DOY 59)
Max gain in snow depth at SASP = 24.1 cm (9.5 inches)
Max gain in snow depth at SBSP (wind affected) = 16.3 cm (6.4 inches)
Peak Gust at PTSP at: 1732 hrs MST Monday February 27, 2017 (DOY 58)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 40
No. of missing hours: 0
From hour ending: Feb 27, 2017 1000 MST
To: Mar 01, 2017 0100 MST
Avg. wind dir: 255
Avg. wind spd: 22.9 mph
Peak gust: 58.1 mph

Average Hourly Wind Speed (mph)
>45 22-45 11-22 6-11 0-6 calm
2016/2017 WINTER STORM #17

2016-17 Winter Storm #17: March 5-6, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:

Storm precip began between 1400 – 1500 hrs MST Sunday, March 5, 2017 (DOY 64)

Storm precipitation ended: 1300 hrs MST Monday, March 6, 2017 (DOY 65)

Storm duration = 24 hrs

Storm total water content at SASP = 12 mm (0.5 inches)

Mean Precip intensity: 0.50 mm/hr

Max Precip intensity: 2 mm/hour between 1800 – 1900 hrs on Sunday March 5, 2017 (DOY 64)

Max gain in snow depth at SASP = 12.5 cm (4.9 inches)

Max gain in snow depth at SBSP (wind affected) = 0.3 cm (0.1 inches)

Peak Gust at PTSP at: 1640 hrs MST Sunday, March 5, 2017 (DOY 64)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 24
No. of missing hours: 0

From hour ending: Mar 05, 2017 1400 MST
To: Mar 06, 2017 1300 MST

Avg. wind dir: 226
Avg. wind spd: 39.2 mph
Peak gust: 81.1 mph

Average Hourly Wind Speed (mph)

>45
22-45
11-22
6-11
0-6
Calm
2016/2017 WINTER STORM #18

2016-17 Winter Storm #18: March 23-24, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:

Storm precip began: between 1100 – 1200 hrs MST Thursday, March 23, 2017 (DOY 82)

Storm precipitation ended: 1200 hrs MST Friday, March 24, 2017 (DOY 83)

Storm duration = 26 hrs

Storm total water content at SASP = 42 mm (1.7 inches)

Mean precip intensity: 1.62 mm/hr

Max precip intensity: 5 mm/hour between 0100 – 0200 hrs on Friday March 24, 2017 (DOY 83)

Max gain in snow depth at SASP = 44.8 cm (17.6 inches)

Max gain in snow depth at SBSP (wind affected) = 31.8 cm (12.5 inches)

Peak gust at PTSP at: 0334 hrs MST Friday, March 24, 2017 (DOY 83)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 26
No. of missing hours: 0

From hour ending: Mar 23, 2017 1100 MST
To: Mar 24, 2017 1200 MST

Avg. wind dir: 4
Avg. wind spd: 20.9 mph
Peak gust: 61.2 mph
2016/2017 WINTER STORM #19

2016-17 Winter Storm #19: March 25-26, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 1600 – 1700 hrs MST Saturday, March 25, 2017 (DOY 84)
Storm precipitation ended: 0900 hrs MST Sunday, March 26, 2017 (DOY 85)
Storm duration = 18 hrs
Storm total water content at SASP = 18 mm (0.7 inches)
Mean precip intensity: 1.00 mm/hr
Max precip intensity: 3 mm/hour on multiple occasions on Sunday March 26, 2017 (DOY 85)
Max gain in snow depth at SASP = 20.8 cm (8.2 inches)
Max gain in snow depth at SBSP (wind affected) = 7.4 cm (2.9 inches)
Peak gust at PTSP at: 1651 hrs MST Saturday, March 25, 2017 (DOY 84)

Storm Wind Rose (Putney Study Plot data):

CSAPG Putney Study Plot 12,323 ft.
No. of hours: 18
No. of missing hours: 0
From hour ending: Mar 25, 2017 1600 MST
To: Mar 26, 2017 0900 MST
Avg. wind dir: 305
Avg. wind spd: 10.6 mph
Peak gust: 31.4 mph

Average Hourly Wind Speed (mph)
Storm Summary Statistics:

Storm precip began between 1800 – 1900 hrs MST Monday, March 27, 2017 (DOY 86)
Storm precipitation ended: 0200 hrs MST Tuesday, March 28, 2017 (DOY 87)
Storm duration = 9 hrs
Storm total water content at SASP = 19 mm (0.7 inches)
Mean precip intensity: 2.11 mm/hr
Max precip intensity: 5 mm/hour on multiple occasions on Monday March 27, 2017 (DOY 86)
Max gain in snow depth at SASP = 23.3 cm (9.2 inches)
Max gain in snow depth at SBSP (wind affected) = 21.4 cm (8.4 inches)
Peak gust at PTSP at: 2130 hrs MST Monday, March 27, 2017 (DOY 86)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 Ft.
No. of hours: 9
No. of missing hours: 0
From hour ending: Mar 27, 2017 1800 MST
To: Mar 28, 2017 0200 MST
Avg. wind dir: 169
Avg. wind spd: 9.8 mph
Peak gust: 27.1 mph

Average Hourly Wind Speed (mph)
Storm Summary Statistics:

Storm precip began between 1600 – 1700 hrs MST Tuesday, March 28, 2017 (DOY 87)

Storm precipitation ended: 1500 hrs MST Wednesday, March 29, 2017 (DOY 88)

Storm duration = 24 hrs

Storm total water content at SASP = 12 mm (0.5 inches)

Mean precip intensity: 0.50 mm/hr

Max precip intensity: 2 mm/hour on 2100 MST Monday March 28, 2017 (DOY 87)

Max gain in snow depth at SASP = 1.7 cm (0.7 inches)

Max gain in snow depth at SBSP (wind affected) = 0 cm (0 inches)

Peak gust at PTSP at: 2221 hrs MST Tuesday, March 28, 2017 (DOY 87)

Storm Wind Rose (Putney Study Plot data):

CSAS Putney Study Plot 12,323 ft.

No. of hours: 24
No. of missing hours: 9
From hour ending: Mar 28, 2017 1600 MST
To: Mar 29, 2017 1500 MST

Avg. wind dir: 13
Avg. wind spd: 22.4 mph
Peak gust: 53.8 mph

Average Hourly Wind Speed (mph)

>45 22-45 11-22 6-11 0-6 calm
2016/2017 WINTER STORM #22
2016-17 Winter Storm #22: March 30-April 2, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 1900 – 2000 hrs MST Thursday, March 30, 2017 (DOY 89)
Storm precipitation ended: 0300 hrs MST Sunday, Apr 2, 2017 (DOY 92)
Storm duration = 57 hrs
Storm total water content at SASP = 17 mm (0.7 inches)
Mean precip intensity: 0.30 mm/hr
Max precip intensity: 2 mm/hour at 1500 on Friday March 31, 2017 (DOY 90)
Max gain in snow depth at SASP = 4.5 cm (1.8 inches)
Max gain in snow depth at SBSP (wind affected) = 7.4 cm (2.9 inches)
Peak gust at PTSP at: 0202 hrs MST Friday, March 31, 2017 (DOY 90)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 57
No. of missing hours: 0
From hour ending: Mar 30, 2017 1900 MST
To: Apr 02, 2017 0300 MST
Avg. wind dir: 142
Avg. wind spd: 11.8 mph
Peak gust: 64.0 mph

Average Hourly Wind Speed (mph)
Storm Summary Statistics:
Storm precip began between 0000 – 0100 hrs MST Tuesday, April 4, 2017 (DOY 94)
Storm precipitation ended: 2200 hrs MST Tuesday, Apr 4, 2017 (DOY 94)
Storm duration = 23 hrs
Storm total water content at SASP = 20 mm (0.8 inches)
Mean precip intensity: 0.87 mm/hr
Max precip intensity: 2 mm/hour on multiple occasions on Tuesday, April 4, 2017 (DOY 94)
Max gain in snow depth at SASP = 26.6 cm (10.5 inches)
Max gain in snow depth at SBSP (wind affected) = 11.3 cm (4.4 inches)
Peak gust at PTSP at: 0400 hrs MST Tuesday, April 4, 2017 (DOY 94)

Storm Wind Rose (Putney Study Plot data):
No. of hours: 23
No. of missing hours: 0
From hour ending: Apr 04, 2017 0000 MST
To: Apr 04, 2017 2200 MST
Avg. wind dir: 5
Avg. wind spd: 19.9 mph
Peak gust: 49.4 mph

Average Hourly Wind Speed (mph)
- >45
- 22-45
- 11-22
- 6-11
- 0-6
- calm
2016/2017 WINTER STORM #24

2016-17 Winter Storm #24: April 24 - 26 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 1600 – 1700 hrs MST Monday, April 24, 2017 (DOY 114)
Storm precipitation ended: 1100 hrs MST Wednesday, Apr 26, 2017 (DOY 116)
Storm duration = 44 hrs
Storm total water content at SASP = 17 mm (0.7 inches)
Mean precip intensity: 0.39 mm/hr
Max precip intensity: 3 mm/hour Between 1500 and 1600 hrs on Tuesday, April 25, 2017 (DOY 115)
Max gain in snow depth at SASP = 9.7 cm (3.8 inches)
Max gain in snow depth at SBSP (wind affected) = 12.4 cm (4.9 inches)
Peak gust at PTSP at: 2238 hrs MST Monday, April 24, 2017 (DOY 114)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 44
No. of missing hours: 0
From hour ending: Apr 24, 2017 1600 MST
To: Apr 26, 2017 1100 MST
Avg. wind dir: 312
Avg. wind spd: 19.4 mph
Peak gust: 52.9 mph

Average Hourly Wind Speed (mph)
**2016/2017 WINTER STORM #25**

2016-17 Winter Storm #25: April 27, 2017  
Senator Beck Basin Study Area, at Red Mountain Pass, CO

**Storm Summary Statistics:**

*Storm precip began* between 2400 – 0100 hrs MST Thursday, April 27, 2017 (DOY 117)

*Storm precipitation ended:* 1800 hrs MST Thursday, Apr 27, 2017 (DOY 117)

*Storm duration =* 19 hrs

*Storm total water content at SASP =* 15 mm (0.6 inches)

*Mean precip intensity:* 0.79 mm/hr

*Max precip intensity:* 3 mm/hour on multiple occasions on Thursday, April 27, 2017 (DOY 117)

*Max gain in snow depth at SASP =* 15.7 cm (6.2 inches)

*Max gain in snow depth at SBSP (wind affected) =* 2.4 cm (0.9 inches)

*Peak gust at PTSP at:* 0531 hrs MST Thursday, April 27, 2017 (DOY 117)

**Storm Wind Rose (Putney Study Plot data):**

*CSAS Putney Study Plot 12,323 ft.*

- No. of hours: 19
- From hour ending: Apr 27, 2017 0000 MST
- To: Apr 27, 2017 1800 MST
- No. of missing hours: 0
- Avg. wind dir: 291
- Avg. wind spd: 29.0 mph
- Peak gust: 65.1 mph
Storm Summary Statistics:
Storm precip began between 0900 – 1000 hrs MST Tues, May 9, 2017 (DOY 129)
Storm precipitation ended: 0700 hrs MST Thursday, May 11, 2017 (DOY 131)
Storm duration = 47 hrs
Storm total water content at SASP = 29 mm (1.1 inches)
Mean precip intensity: 0.62 mm/hr
Max precip intensity: 5 mm/hour at 2100 on Tuesday, May 9, 2017 (DOY 129)
Max gain in snow depth at SASP = 13.2 cm (5.2 inches)
Max gain in snow depth at SBSP (wind affected) = 13.0 cm (5.1 inches)
Peak gust at PTSP at: 2246 hrs MST Tuesday, May 9, 2017 (DOY 129)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 47
No. of missing hours: 0
From hour ending: May 09, 2017 0900 MST
To: May 11, 2017 0700 MST
Avg. wind dir: 26
Avg. wind spd: 11.8 mph
Peak gust: 36.4 mph

Average Hourly Wind Speed (mph):
- >45
- 22-45
- 11-22
- 6-11
- 0-6
- calm
2016/2017 WINTER STORM #27

2016-17 Winter Storm #27: May 17-18, 2017
Senator Beck Basin Study Area, at Red Mountain Pass, CO

Storm Summary Statistics:
Storm precip began between 1100 – 1200 hrs MST Wednesday, May 17, 2017 (DOY 137)
Storm precipitation ended: 2200 hrs MST Thursday, May 18, 2017 (DOY 138)
Storm duration = 36 hrs
Storm total water content at SASP = 35 mm (1.4 inches)
Mean precip intensity: 0.97 mm/hr
Max precip intensity: 4 mm/hour at 2400 on Wednesday, May 17, 2017 (DOY 137)
Max gain in snow depth at SASP = 36.8 cm (14.5 inches)
Max gain in snow depth at SBSP (wind affected) = 28.5 cm (11.2 inches)
Peak gust at PTSP at: 1608 hrs MST Wednesday, May 17, 2017 (DOY 137)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 36 From hour ending: May 17, 2017 1100 MST
No. of missing hours: 0 To: May 18, 2017 2200 MST
Avg. wind dir: 252
Avg. wind spd: 11.4 mph
Peak gust: 39.9 mph

Average Hourly Wind Speed (mph)
2016/2017 WINTER STORM #28

Storm Summary Statistics:
Storm precip began between 1800 – 1900 hrs MST Thursday, June 1, 2017 (DOY 152)
Storm precipitation ended: 2300 hrs MST Thursday, June 1, 2017 (DOY 152)
Storm duration = 6 hrs
Storm total water content at SASP = 12 mm (0.5 inches)
Mean precip intensity: 2.00 mm/hr
Max precip intensity: 5 mm/hour at 2200 on Thursday, June 1, 2017 (DOY 152)
Max gain in snow depth at SASP = 0.9 cm (0.4 inches)
Max gain in snow depth at SBSP (wind affected) = 1.8 cm (0.7 inches)
Peak gust at PTSP at: 1816 hrs MST Thursday, June 1, 2017 (DOY 152)

Storm Wind Rose (Putney Study Plot data):
CSAS Putney Study Plot 12,323 ft.
No. of hours: 6 From hour ending: Jun 01, 2017 1800 MST
No. of missing hours: 0 To: Jun 01, 2017 2300 MST
Avg. wind dir: 240
Avg. wind spd: 7.8 mph
Peak gust: 27.7 mph

Average Hourly Wind Speed(mph)
>45
22-45
11-22
6-11
0- 6
calm