Ste	Nationa orm Data and	al Weather Unusual We		197 <b>6</b> 97
Location	Local/ L			timated May 20 Jamage Crops Character of Storm
CALIFORNIA, Sou	th Central			
CAZ095-098>099	•	0 stained wind of 45 MPH was re	•	<b>Wind</b> hapi Pass area of the Kern Mountains with gust briefly to 75 knots with some blowing sand in
CAZ095-098>099	Kern Cty Mtns - Indian Wel091146PST102000PSTAnother spring event brought10th.A peak gust of 63 MP	0 northwest wind speeds reachin H occurred at Jawbone RAWS sting to 46 MPH. In the Indian	early in the afterno	Wind criteria for the latter part of the 9th and much of bon of the 10th in the Kern Mountains with spe ran from 30 gusting to 45 MPH. Government F
CAZ095-098>099		0 gust to 58 MPH on the mornin		<b>Wind</b> Kern Mountains with Indian Wells Canyon hav th Mojave Airport sustaining wind of 34 MPH.
CAZ099	Se Kern Cty Desert 15 1546PST 1900PST Locally wind around Mojave .	0 Airport gusted to 50 knots late	0 in the afternoon of t	Wind he 15th
CAZ095-098>099	11 0	0 nter storm, winds in the Kern	•	<b>Wind</b> and Deserts became gusty. Indian Wells Can k gust of 43 MPH; and, Government Peak reacl
CAZ091>092	extent that visibilities were re Field at Bakersfield reported v was from the northwest in the	educed to 200 feet on South V wind to 31 MPH with vertical v	alley roads with ma isibility limited to ju locations in the Cen	<b>Dust Storm</b> st on the Southern San Joaquin Valley floor to ny area visibilities at or below 1/2 mile. Mead st 900 feet due to the blowing dust. While the w tral Valley reported wind from the southeast. n Valley floor.
CAZ097	Tulare Cty Mtns 20 0300PST 21 0300PST	0	0	Winter Weather
CAZ095-098>099	Kern Cty Mtns - Indian Wel201308PST2000PST2000PSTA late Spring frontal passage conditions to the Kern County	0 brought 14" of new snow to y Mountains and Desert areas.	In the Kern Mounta	Wind Tulare County Mountains on the 20th and wi ins Indian Wells Canyon reported wind gusts to port and 50 MPH at Government Peak in the k

Stor	m						e <b>rvice</b> er Phe	nomena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estimated Damage Property Crop	s Character of Storm	May 2002
CALIFORNIA, South C	<u>Central</u>								
CAZ096>097	20 21 In a lit	s included Volc	hours, signifi					Winter Storm Intains of Central Califor es 21", and Huntington L	U
Fresno County 10 N Fresno	<b>20</b> Lightni	<b>1230PST</b> ng strikes (2) in	close proximi	ty to overhea	0 d aircraft ap	0 pproaching	Fresno Air Term	<b>Lightning</b> inal	
Fresno County 2 ESE Fig Garden	20 Three l	1250PST 1255PST ightning strikes	were reported	in and around	<b>0</b> d the Bullar	0 d High Sci	hool campus.	Lightning	
Fresno County 8 E (Fat) Air Terminal	20 Structu	1445PST re fire due to lig	htning hit.		0	0	5K	Lightning	
Fresno County 5 NE Kerman	20	1511PST			0	0		Lightning	
Kern County Ridgecrest	Some p in the a	ower lines were	downed along time due to t	g with flying he downed li	debris brea	king a poli	ce car window. A	Wind e within the city of Ridged bout 1,200 customers we e China Lake Naval Wea	nt without power
Fresno County Clovis	20	1305PST 1310PST			0	0		Funnel Cloud	
Fresno County 3 E Clovis to 4 E Clovis	20	1355PST			0	0		Funnel Cloud	
4 E Clovis Madera County 5 WSW Chowchilla to 4 WSW Chowchilla	20	1400PST 1313PST 1318PST			0	0		Funnel Cloud	
Madera County 7 ESE Chowchilla to 7.5 ESE Chowchilla		<b>1325PST</b> <b>1330PST</b> hundred trees veret.	were downed	in an orchard	0 I east of Ch	<b>0</b> nowchilla	due to strong win	Thunderstorm W	. ,
Madera County 4 S Madera Muni Arpt to 5.5 SE Madera Muni Arp	20	1459PST 1520PST	2.7	40	0	0	130K	Tornado (F1)	



# National Weather Service Storm Data and Unusual Weather Phenomena

		Time Local/	Path Length	Path Width	Numl Per	sons		nated nage		May 2002
Location	Date	Standard	(Miles)	(Yards)	Killed	Injured	Property	Crops	Character of Storm	

## **CALIFORNIA, South Central**



Madera County F1 Tornado as seen from the Madera County foothills 27 miles to the northeast looking looking back to the southwest toward the city of Madera at approximately 4 PM PDT on May 20th. Photo by Carolyn Mather.

This tornado occurred from the explosive development of a cell along neighboring cells' outflow boundary convergence. The tornado track on the ground was 2.675 miles and mostly F0 in intensity and as wide as 100 yards. It began relatively weak, peeling roofs off from farm structures, downing trees and fencing, but engulfing a well-built structure with minimal damage. However, a 1/4-mile stretch reached F1 intensity as it totally demolished a small farm structure toward the end of its run and was narrowed to a 40-yard path width at that point. The tornado occurred essentially in a rural area of south Madera, tracked west-to-east, but finished with a sweep toward the southeast.

### Madera County

3 NE Madera Muni Arpt 20 3.5 NE Madera Muni Arț

#### 1515PST 1518PST

1520PST 1524PST 0 0

0

256K Hail(1.75)

Hail(1.50)

Much like Fresno and Tulare Counties to the south, various sizes of hail scarred vegetables and fruit within localized rural areas of Madera County. Nonetheless, the largest hail fell generally within a semi-rural area north of the city of Madera

0

### Madera County

6 NE Madera Muni Arpt 20 6.5 NE Madera Muni Arț

Total rainfall from this event was 2.35" in the area around Madera Golf and Country Club.

The thunderstorm that supported a tornado at approximately 1500 PST also brought very large hail and locally heavy rain to areas to the north and north-northeast of Madera and the tornado track area.

Fresno County 8 NNE (Fat) Air Termin: 20 8.5 NNE (Fat) Air Termii		1340PST 1345PST	0	0	24.3M	Hail(1.00)
Fresno County 1 NW Clovis	20	1400PST 1405PST	0	0		Hail(1.00)
Fresno County 2 ESE Fig Garden to 2.2 ESE Fig Garden	20	1427PST 1430PST	0	0		Hail(0.75)

Sto	rm						r <b>vice</b> r Pheno	omena	
Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed	ons	Estimated Damage Property Crops	Character of Storm	May 2002
CALIFORNIA, South	Centra	<u>l</u>							
Fresno County									
1 NW Clovis to 5 NE Clovis	20	1500PST 1515PST			0	0		Hail(1.00)	
	Joaqui	in Valley. In Fre	esno County	alone \$24.3N	A of damag	ge occurred	due to not only se	er day in the Central a evere threshold level l deciduous trees of sm	hailbut copious
Fresno County									
.5 W Centerville to Centerville	20 Swatc	<b>1540PST</b> <b>1555PST</b> th of hail 3-4 miles	s wide in the a	rea.	0	0		Hail(1.00)	
Fresno County									
Sanger	20	1602PST 1607PST			0	0		Hail(0.75)	
Fresno County	•				<u>^</u>	0			
4 NE Sanger to 5 NE Sanger	<b>20</b> 1/2" F	1616PST 1621PST Iail with some store	nes 3/4"		0	0		Hail(1.00)	
Fresno County	1/2 1								
Clovis	20	1626PST 1629PST			0	0		Hail(0.88)	
Fresno County	20	1/2005			0	0		11-31(0.75)	
1 NW Orange Cove to 1 N Orange Cove	20 While	1638PST 1645PST the largest hail fe	ll in the vicin	ity of Orange			ng with this event o	Hail(0.75) continued at least until	1801 PDT based
		otter reports.				1			
Tulare County Visalia to	20	1600PST			0	0	1.2M	Small Hail	
Woodlake		1645PST	ere storm eve	nts occurred				caused by large amou	ints of small hail
							citrus fruits are vul		
Fresno County									
Navelencia	20	1625PST 1630PST			0	0		Hail(0.75)	
	Hail s	ize as reported by	a storm spotte	er ranged from	m 1/2" to 3/	4".			
Merced County Planada	20	1640PST			0	0	200K	Small Hail	
		<b>1650PST</b> y heavy rain and boring Central Va			-		County. More subs	tantial agricultural dar	nage occurred in
CAZ099	Se Ke 21	rn Cty Desert 0647PST 1900PST			0	0		Wind	
	proble	ving severe weath						e Kern Deserts caused vind gusted to 60 knots	
Fresno County Piedra	31	2120PST 2259PST			0	0	50K	Thunderstorm W	<sup>7</sup> ind



# National Weather Service Storm Data and Unusual Weather Phenomena

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Numb Pers Killed		Estin Dar Property	nated nage Crops	Character of Storm	May 2002
CALIFORNIA, South	<u>Central</u>									
Kings County 3 E (Nlc)Nas Lemoore	31	2200PST 2203PST			0	0			Hail(0.88)	
Kings County 6.5 N Hanford	31	2217PST			0	0			Lightning	
Kings County 6.5 N Hanford to 7 N Hanford	31	2217PST 2220PST			0	0		200K	Thunderstorm Wi	ind (G50)
Fresno County 3 W (Fch) Chandler Af	31	2305PST 2315PST			0	0	50K		Thunderstorm Wi	ind

Remnants of Hurricane Alma interacted with a closed mid-latitude low providing moisture for a de-stabilizing air mass over Interior Central California in the late evening hours of Friday, May 31st. The resulting widespread, late evening convection lead to strong, gusty wind in wet microbursts and street flooding from localized, torrential rains. The most visual damage occurred with a series of very small microbursts evidenced by crop damage in North Kings County. Also a late report of 3/4+" hail was received from North Kings County.

Kings County Avenal	31	2125PST	0	0	5K	Lightning
Kings County Hanford Muni Arpt	31	2149PST 2210PST	0	0		Heavy Rain
Kings County 1 SSW Hanford Muni A	31	2215PST	0	0	5K	Lightning
Kings County 6.5 N Hanford	31	2217PST	0	0	5K	Lightning
Fresno County Fresno	31	2230PST 2330PST	0	0		Heavy Rain

Localized heavy rain at the Hanford Airport of 1.01" within a 21-minute time period totally flooded local streets and intersections. Despite heavy rain being highly localized (known locations at Hanford, Armona, Avenal, downtown Fresno, and Piedra area of Fresno County), lightning activity with this event was widespread, long-lasting, and very visual...an infrequent occurrence for the Central and Southern San Joaquin Valley. There were 260 lightning strikes between just 1900 and 2000 PST through the Central and South San Joaquin Valley...and that activity continued to just after midnight PST as a band of convection moved north through Kings County and into Fresno County. A trained spotter reported lightning at the rate of 5-6 flashes/second around 2100 PST in the Pine Flat Reservoir location near Piedra.