A 0998226 ✓ F=0

TORNADO PROJECT SUMMARY SHEET

1. DATE AND TIME Sept. 10, 1982 around 6:30pm MST

2. LOCATION OR PATH (attach map) SE Calgary, Alta (Fountain Road + 71st Ave S.E.)

3. PATH LENGTH ☐ NOT KNOWN ☐ <1mi; ☐ 1-4mi; ☐ 5-10mi; ☐ 11-50mi; ☐ LENGTH IF>50mi

4. PATH WIDTH ☐ 5. TORNADO PART OF SQUALL LINE? ☐ YES; ☐ NO; ☐ UNKNOWN:

6. ANY UNUSUAL COLORATION? ☐ YES; ☐ NO; ☐ UNKNOWN

7. ANY UNUSUAL SOUND? ☐ YES; ☐ NO; ☐ UNKNOWN

8. IF ANSWER TO 6 OR 7 YES, ELABORATE;

9. LIST ANY ASSOCIATED PHENOMENA (Such as hail, vivid lightning heavy rain, no rain, etc.)

10. TOTAL DAMAGE ESTIMATE $ thousands 11. TOTAL DEATHS

12. TOTAL INJURED 13. TOTAL HOMELESS

14. LIST ALL REFERENCES

15. SUMMARIZE REMARKS PERTAINING TO (a) FUNNEL; (b) INTERESTING OR CAPRICIOUS EVENTS.

a) tornado travelled towards S.E.

b) - garage demolished
- camper trailer flipped
- broken branches + windows

T.D. 11706300 ~~2309.R~~
5652300 2160 R

$87-million caisson made by cutting tanker in two

Dome optimistic about Beaufort

(continued)

Canmar is increasingly using artificial islands for drilling, partly because they'll be needed for production but also because they can be used for winter drilling when the drillships depart.

One significant development is the arrival from Japan last week of a new $87-million steel drilling caisson — the structure which is placed on top of an island to protect it from ice.

The new caisson was built from an unused Japanese oil tanker. Welders torched off the stern section and the remainder of the ship has been ice-strengthened for use as a caisson.

Drilling equipment is currently being installed on the deck and the caisson should on top of Dome's recently-completed Uviluk island next month.

Meanwhile, Canmar's dredgers have now begun building an island over the Nerlerk structure where a well drilled from a ship earlier this summer flowed at 400 barrels per day (bpd).

Nerlerk is the largest formation found so far in the Beaufort, covering about 360 square kilometres.

Todd admits 400 bpd is not commercial, but believes the reservoir may be more prolific elsewhere on the structure.

Twister punches neighborhood

C.H. Sept. 11/82 S.D. Sept. 10/82

By Earl Fowler
(Herald staff writer)

A tornado ripped through southeast Calgary Friday night, demolishing a garage, lifting a camper trailer onto a backyard fence and leaving a trail of smashed windows and broken tree branches in its wake.

No one was injured when the grey-spiral funnel hit without warning, shortly before 7 p.m. in the Fairview neighborhood just south of Glenmore Trail and Blackfoot Trail.

But electrical power to much of the neighborhood was knocked out for several minutes, and many residents of Fountain Road S.E. and 71st Avenue S.E. were forced to huddle in basements as they waited for the storm to pass.

The tornado was not predicted by Environment Canada's weather forecast office in Edmonton, which did not issue a warning. Jim Ostrander, weather briefer at the Calgary International Airport, said the Edmonton office, responsible for regional forecasts, will investigate the episode by interviewing witnesses.

Two houses across an alley from each other were hit especially hard. No one was home at 7144 Fountain Rd. S.E., where the roof was blown off a two-bay garage and a trailer wound up with one end resting precariously on a fence.

But Brad Landes, owner of the second house, was in his living room when "I heard what sounded like crackling thunder, and a piece of wood blew through our kitchen window."

Full of debris

Landes, of 432 71st Ave. S.E., grabbed his two preschool children and "just ran into the hallway and sat there till it blew through."

He emerged to find most of his fence down and his yard full of debris. Landes said damage to his home and yard is "in the thousands of dollars. I think I phoned my (insurance) agent right after it happened . . . and as far as I know I'm covered."

Ken Thompson of 428 71st Ave. S.E. and Tim McBride were painting Thompson's garage door when "we heard this cracking sound," said Thompson.

"I dove underneath my garage door, but the power went off, so I couldn't get the door down. It blew my (garage) windows out, and it took my barbecue and one of my dogs."

Thompson said Worm, a one-year-old pup, was "lifted right over the fence. It didn't hurt him but it sure threw him."

McBride and Thompson both said they saw the tornado funnel in the air, as did David Friis, of 7103 Fountain Rd. S.E. "It was just above our house, starting to come down," said Friis.

He said the tornado, travelling in a southeasterly direction, crossed the concrete sound barrier separating Fountain Road from Blackfoot Trail. It then swung west, and before dissipating split a tree in a Fountain Road S.E. park two blocks to the south.

Residents of this area reported the loss of shingles and the uprooting of trees. "It also tore my telephone line into the alley," said Uwe Janssen of 7212 Fountain Rd. S.E.

"I was looking out our kitchen window, and I seen my bike and our (metal) shed flying over our neighbor's fence," said Kevin Weidman of 7140 Fountain Rd. S.E.

About the same time, Corinne Wallace of 440 71st Ave. S.E. had realized that the high-flying birds her friend Jacqueline Atherley was pointing out weren't birds at all, but "paper, whirling around."

Debris from the tornado damaged Atherley's car and fences in front of and behind the house. But miraculously, the house itself was spared.

Decisive

But the poll results, favorable, could be the tion Lougheed needs t voters this year instead spring's "normal" four val, said the source.

"I think his last de will be the poll results."

The mood-testing is be done near the end of perhaps very close to t date set for distribution tion forms for the mort tance scheme.

The home mortgag will subsidize paymen gage monies up to $60 per cent for two years.

YOU A
THE RESUL
S

In 1981, Travel Alber consulting firm - Mar Macklin Monaghan - Westcastle Ski Area. asked to examine the and economic feasib developing or expan Westcastle.

The results of that st presented to the pub Marshall Macklin Mo cordially invite anyor in hearing what the r attend this meeting.

Raymaker lauds

New Glasses for

PEGGY NISBET
DOLLS
CALL TOLL FREE
1-800-661-7345

King warned Friday that school boards would be wise to count on only five per cent more government money, compared to a 14.1-per-cent increase for 1982.

"I've already told two board trend to shift the financial burden onto the local taxpayer."

Per-pupil grants, to be announced in January, now represent about 60 cents of each dollar spent by both Calgary school boards.

King emphasized it's still too early to know exactly how much money will be handed out in January.

However, King insisted Alberta schools are still better off than their

more than five or six per cent.

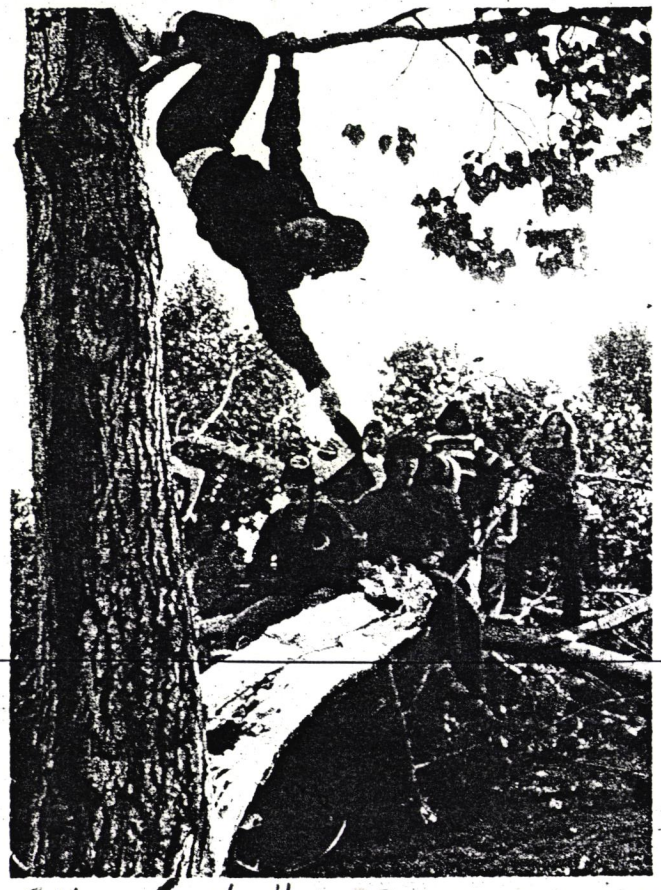
"Sure, it's not a cut. But we know now our utilities rates will go up more than five per cent. So will the cost of materials, supplies, books for our libraries."

draft a working budget which would call for no more than a 15-per-cent boost to the city school tax.

"But I'm sure they were figuring

local taxpayers for m per cent, either," he sa

"I hope it's possibl total budget increase five per cent."

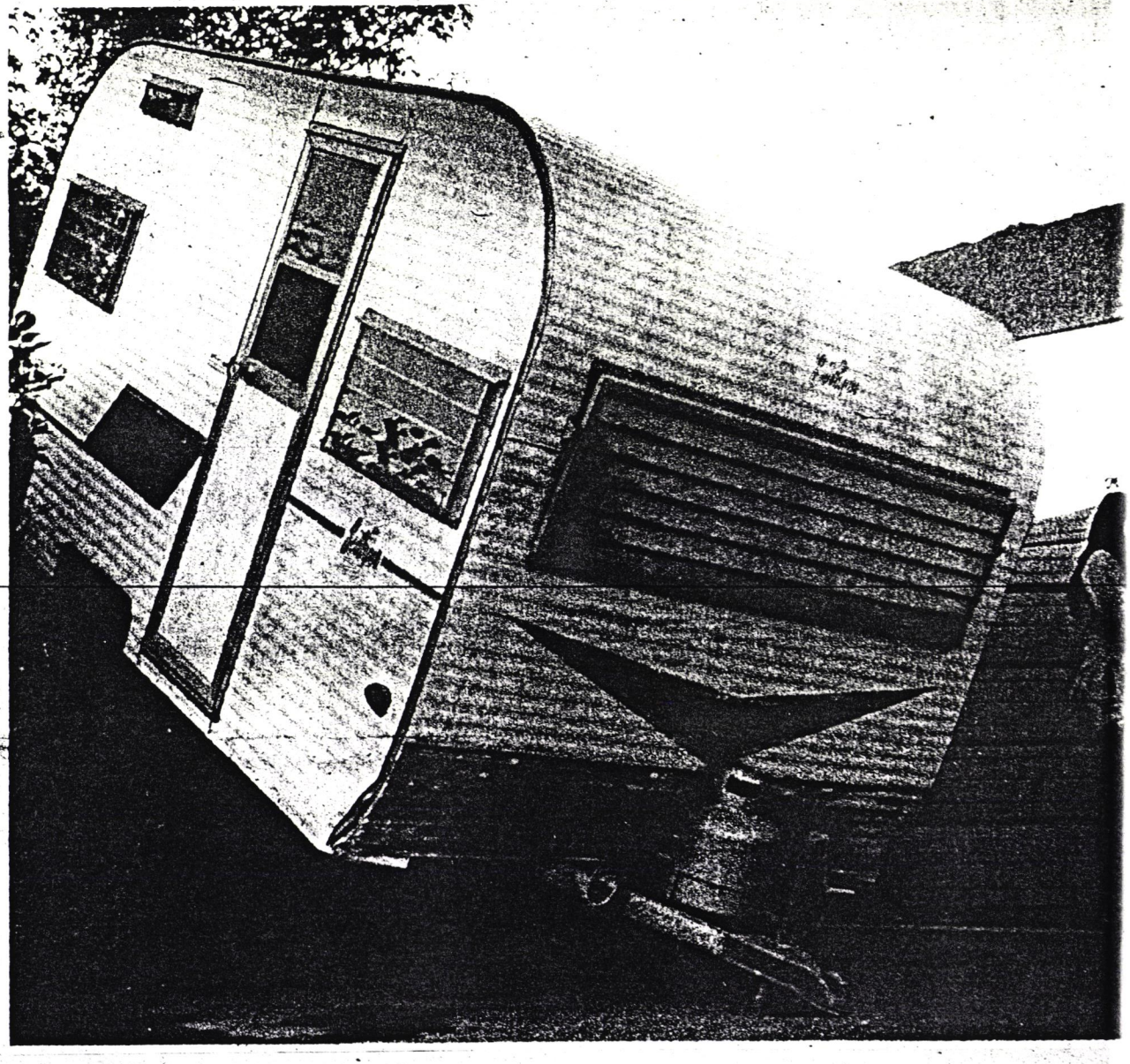


C.H. Sept. 11, 82 Kim Stallknecht, Calgary Herald

S.D. Sept 10, 82

Twister hits

Cory Tamagi gets to climb a tornado- shattered tree about as often as Donna Love sees a wind-tossed trailer straddling a fence. Both were viewing the aftermath of a twister which caused thousands of dollars to the Fairmount neighborhood Friday night. Fortunately, nobody was hurt. Story on Page A2.



Dome crosses fingers over Beaufort tests

Canadian Press Clipping Services
481 UNIVERSITY AVE.
TORONTO, M5W 1A7

Calgary Herald, Alta.
Circ. 139,244
September 11, 1982

CANADIAN PRESS CLIPPING SERVICES

Twister punches neighborhood

cont'd from P1.

By Earl Fowler
(Herald staff writer)

A tornado ripped through southeast Calgary Friday night, demolishing a garage, lifting a camper trailer onto a backyard fence and leaving a trail of smashed windows and broken tree branches in its wake.

No one was injured when the grey-spiral funnel hit without warning, shortly before 7 p.m. in the Fairview neighborhood just south of Glenmore Trail and Blackfoot Trail.

But electrical power to much of the neighborhood was knocked out for several minutes, and many residents of Fountain Road S.E. and 71st Avenue S.E. were forced to huddle in basements as they waited for the storm to pass.

The tornado was not predicted by Environment Canada's weather forecast office in Edmonton, which did not issue a warning. Jim Ostrander, weather briefer at the Calgary International Airport, said the Edmonton office, responsible for regional forecasts, will investigate the episode by interviewing witnesses.

Two houses across an alley from each other were hit especially hard. No one was home at 7144 Fountain Rd. S.E., where the roof was blown off a two-bay garage and a trailer wound up with one end resting precariously on a fence.

But Brad Landes, owner of the second house, was in his living room when "I heard what sounded like crackling thunder, and a piece of wood blew through our kitchen window."

Full of debris

Landes, of 432 71st Ave. S.E., grabbed his two preschool children and "just ran into the hallway and sat there till it blew through."

He emerged to find most of his fence down and his yard full of debris. Landes said damage to his home and yard is "in the thousands of dollars, I think. I phoned my (insurance) agent right after it happened . . . and as far as I know I'm covered."

Ken Thompson of 428 71st Ave. S.E. and Tim McBride were painting Thompson's garage door when "we heard this cracking sound," said Thompson.

"I dove underneath my garage door, but the power went off, so I couldn't get the door down. It blew my (garage) windows out, and it took my barbecue and one of my dogs."

Thompson said Worm, a one-year-old pup, was "lifted right over the fence. It didn't hurt him but it sure threw him."

McBride and Thompson both said they saw the tornado funnel in the air, as did David Friis, of 7103 Fountain Rd. S.E. "It was just above our house, starting to come down," said Friis.

He said the tornado, travelling in a southeasterly direction, crossed the concrete sound barrier separating Fountain Road from Blackfoot Trail. It then swung west, and before dissipating split a tree in a Fountain Road S.E. park two blocks to the south.

Residents of this area reported the loss of shingles and the uprooting of trees. "It also tore my telephone line into the alley," said Uwe Janssen of 7212 Fountain Rd. S.E.

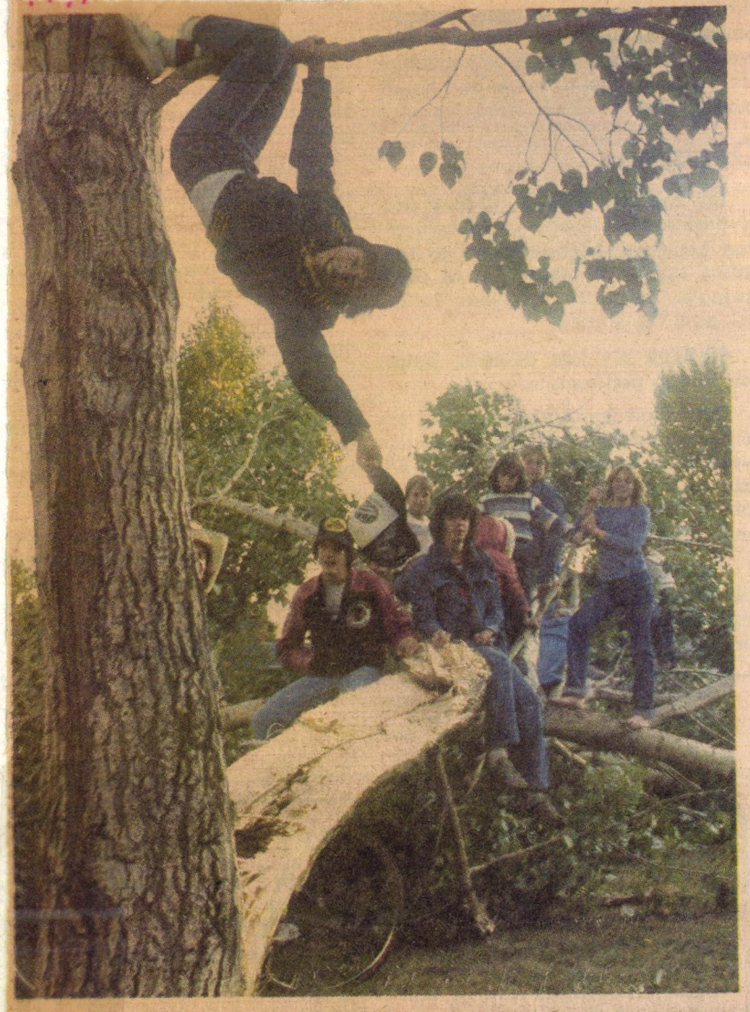
"I was looking out our kitchen window, and I seen my bike and our (metal) shed flying over our neighbor's fence," said Kevin Weidman of 7140 Fountain Rd. S.E.

About the same time, Corinne Wallace of 440 71st Ave. S.E. had realized that the high-flying birds her friend Jacqueline Atherley was pointing out weren't birds at all, but "paper, whirling around."

Debris from the tornado damaged Atherley's car and fences in front of and behind the house. But miraculously, the house itself was spared.

STORM DATA: FRI SEPT 10, 1982

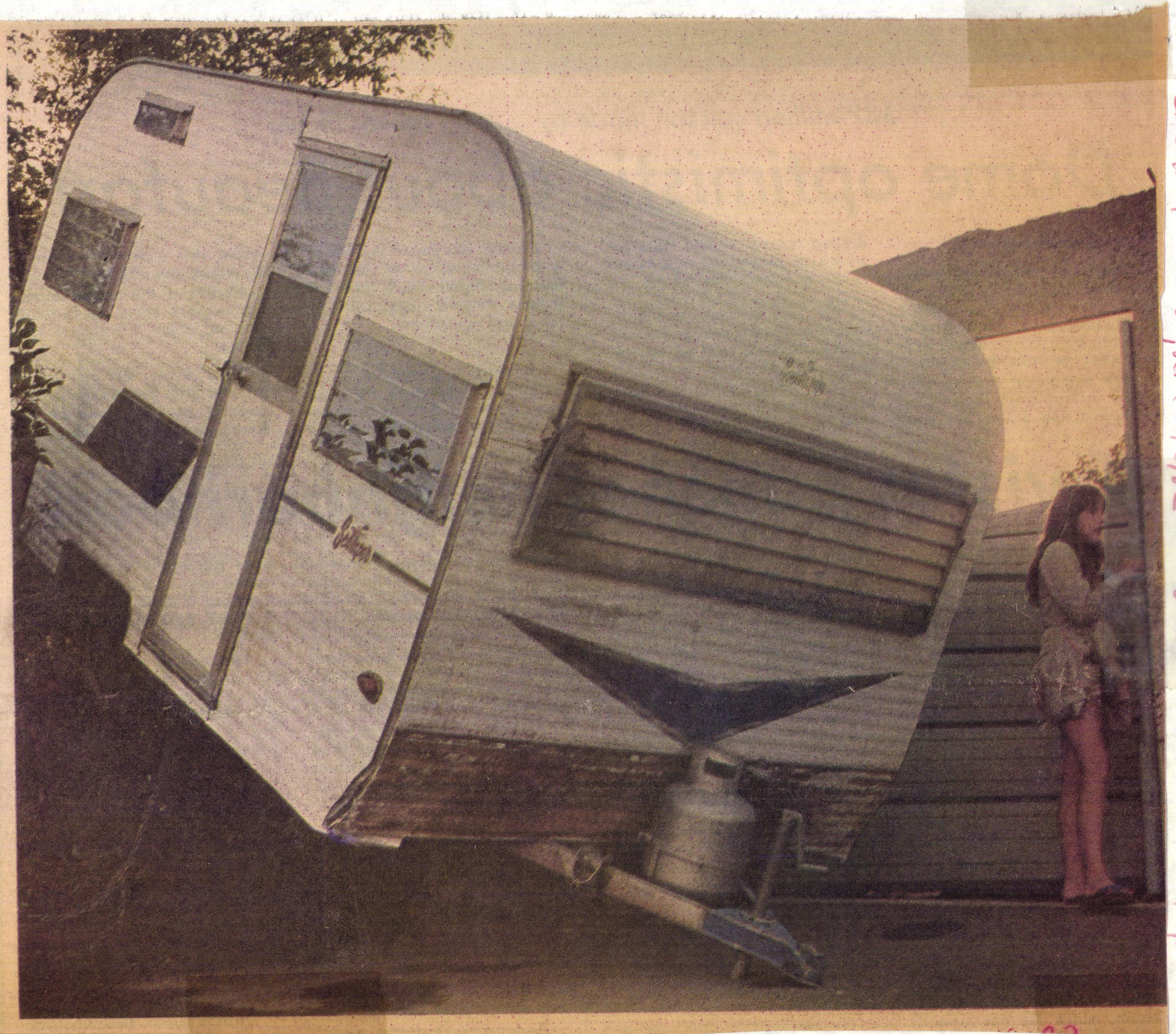
ALTA



Kim Stallknecht, Calgary Herald

Twister hits

Cory Tamagi gets to climb a tornado- shattered tree about as often as Donna Love sees a wind-tossed trailer straddling a fence. Both were viewing the aftermath of a twister which caused thousands of dollars to the Fairmount neighborhood Friday night. Fortunately, nobody was hurt. Story on Page A2.



CALGARY HERALD, SEPT 11, 1982

STORM DATE FRI SEPT 10, 1982

Environment Canada / Environnement Canada — Atmospheric Environment Service / Service de l'environnement atmosphérique

SURFACE WEATHER RECORD

AT CALGARY "A" (YYC) ALBERTA — PROVINCE — FROM 0600 SEP 10 1982 — TO 0601 SEP 11 1982 — LST = GMT − 7.00 HOURS

(STATION NAME AS IN METSTAT; HOUR (GMT) DAY MONTH 19__)

CHECKED, CERTIFIED COMPLETE AND CORRECT BY

I OBSERVED DATA AND COMPUTATIONS

1 NOTES AND INSTRUMENT DEFECTS AND CHANGES

DADS AIT COR Time

967	966	-7	097
973	974	-7	127
991	990	-1	057

0027Z RRA SIZE A RAT RAWINTERNAL

FORST HTS

0026(APPROX) TORNADO TOWARD

DOWN FAIRVIEW AREA. SPLIT TREE

GARAGE ROOF TORN OFF. CAMPER

TRUCK SET ON FENCE. DEBRIS

SPREAD OVR 1/8 SE AMILE G.B.C

PEAK WND 0019Z

(GMT) Type 2	Bgn 3	End 4	Type 2	Bgn 3	End 4 (GMT)
RW-	→	0630			
RW-	0735	1050			
RW+	1050	1105			
RW-	1105	1350			
RW-	1350	1517			
RW-	1517	1523			
RW-	1625	1750			
RW-	0005	0050			
T	0012	0050			
SP-	0031	0040			

HOUR (GMT)	Corrected Maximum TENTHS 5	T,T,T, 6	Corrected Minimum TENTHS 7	T_nT_nT_n 8
12	10.5	(24) 24	5.0	12 5.0
18	8.4	12 10.5	5.0	24 5.0
00	12.4	12 12.4	6.2	18 5.0
06	11.7	24 12.4	4.5	24 4.5
24-HR.	12.4		4.5	

HOUR (GMT)	Snowfall cm & TENTHS 9	Water equivalent mm & TENTHS 10	Rainfall mm & TENTHS 11	Total Precip. mm & TENTHS 12	24-hour Precip. mm & TENTHS 13	Depth Snow on Ground cm WHOLE cm 14
12	0	0	6.0	6.0	6.0	0
18	0	0.	2.4	2.4	8.4	0
00	0	0	0	0	2.4	0
06	TR	TR	1.6	1.6	10.0	0
24-HR.	TR	TR	10.0	10.0		

II HOURLY OBSERVATIONS

Corrected Wet-Bulb °C 23	Relative Humidity % 24	Total Opacity 25	Total Amount 26	Type 27	Date (GMT) 28	Hour (GMT) 29	Sky Condition 30	Visibility (Mi) 31	Weather and Obstructions to Vision 32	Sea-level Pressure (mb) 33	Temperature °C (TENTHS) Dry-Bulb 34	Temperature °C (TENTHS) Dew-Point 35	WIND Direction 36	WIND Speed (kt) 37	WIND Character 38	Altimeter Setting (in.) AT 0602 959 39	CLOUDS and/or OBSCURING PHENOMENA Type/Opacity 40	REMARKS 41	(STN. PRES.)	Tendency appp 42	TT_dDA 42a	OBSERVER (Print) 43
		10	10	SP	10	0700	M8 BKN 55 OVC	15+		018	9.9	7.2	39	20		960	SC8SC7				92xx	KMS
		10	10	SP	10	0735	M8 BKN 45 OVC	15	RW-				35	14			SC6SC4				"	SMS
		10	10	SP	10	0745	8 SCT M45 OVC	8	RW-F				35	14			SF4SC6					SMS
		10	10	SA	10	0800	8 SCT M45 OVC	6	RW-F	029	9.0	7.1	36	15		964	SF2SC8		8889		61xx	SMS
		10	10	SA	10	0900	12 SCT M34 OVC	4	RW-F	042	8.9	6.7	36	14		966	SF1SC9	(1325)	8847	3023	02xx	SMS
		10	10	SA	10	1000	12 SCT M34 OVC	4	RW-F	049	7.0	5.0	35	13		968	SF2SC8		8824		00xx	SMS
		10	10	SA	10	1100	12 SCT M34 OVC	4	RW-F	058	6.4	3.7	34	17		972	SF2SC8	RW- ONLY RW	8833		97xx	SMS
	87	10	10	SA	10	1200	10 SCT M25 OVC	3	RW-F	073	5.7	3.7	32	05		974	SF2SC8	RW- OCNL RW (1234)	8834	2009	77xx	SMS
		10	10	SA	10	1300	M22 BKN 80 OVC	86	RW-F	077	6.4	4.0	31	06		975	SC7AC3		8843		40xx	SMS
		10	10	SP	10	1330	10 SCT M25 BKN 80 OVC	6	RW-F				32	06			SF2SC6AC2	VSBY HVR SW				KK
		10	10	RS	10	1400	8 SCT M22 BKN 80 OVC	15	RW--	085	6.8	4.2	30	10		978	SF3SC6AC1	TCU EMBDD	8851		82xx	KMK
		10	10	SA	10	1500	10 SCT M34 BKN 80 OVC	15	RW--	092	6.6	4.0	32	14		978	SF1SC6AC3	HVR SHWRS W (1304)	8852	2013	62xx	KMK
		9	9	SP	10	1517	10 SCT M38 BKN 80 OVC	15	RW-				33	20			SF1SC5AC3	SML BRK S				KMK
		9	9	SP	10	1532	10 SCT M38 E8 BKN	15					31	14			SC5C4AC4					KK
		9	9	SA	10	1600	10 SCT E8 BKN SE8 BKN	15		095	6.0	3.3	31	18		979	SF1SC5AC3	HVY SHWRS W&N	8856		6299	KMK
		10	10	SA	10	1630	10 SCT M25 BKN 80 OVC	15	RW-				31	15			SF1SC7AC2					KMK
		10	10	SA	10	1700	10 SCT M28 BKN 80 OVC	15	RW-	099	6.0	3.6	33	11		980	SF1SC6AC4	TCU TPS N	8859		61xx	KK
		10	10	SP	10	1730	8 SCT E8 OVC	15					32	10			SC4AC6	TCU ASCTD N HVY SHWRS S				KK
	76	9	9	SA	10	1800	30 SCT E8 BKN	20		114	7.8	4.2	31	06		981	TCU5AC4	SHWRS S-SW (1252)	8862	2010	8599	KK
		9	9	SA	10	1900	15 SCT 30 SCT E8 BKN	30		114	8.8	3.6	26	10		981	CF1TCU4AC4	SHWRS S WND SHFTG E COLD WSW	8862		8899	KK
		6	7	SA	10	2000	30 SCT E8 BKN RSCT BKN	30		114	10.0	3.1	24	02		981	TCU3AC5C1	CB NW	8862		6767	KK
		5	6	SA	10	2100	15 SCT 35 SCT 80SCT .25C BKN	4+		114	10.8	1.5	00	00		981	CB1TCU2AC3	LN CB W-NW TR OF (1252)	8862	CU11	8556	KK
		5	8	SA	10	2200	35 SCT 220 - BKN	40		110	11.9	2.3	21	06		980	TCU2CI3	LN CB NW - N	8858		9358	GC
		4	6	SA	10	2300	35 SCT 220 - BKN	40		109	11.8	2.1	17	07		980	TCU2CI2	LN CB/SHWRS NW - N - NNE	8857		8146	GC
	50	6	7	SA	11	0000	35 SCT E220 BKN	40		113	11.6	2.0	18	05		981	CB4CI2	LN CB/SHWRS W-NW-N-NNE HVY SHWR N (1252)	8856	5001	6067	GC
		7	9	SP	11	0005	M34 BKN 220 BKN	40	RW-				23	13			CB6CI1	VSBY LWR N QUAD				GC
		8	9	SP	11	0012	M22 BKN 220 BKN	40	TRW-				26	18	G26		CB6CI2	VSBY LWR N QUAD				GC
		9	9	SP	11	0032	10 SCT E22 BKN 220 BKN	10	TRW-SP-				36	20			CB7CI1	VSBY SW 40 WND SHFT				GC
		9	9	FQ	11	0040	10 SCT E30 BKN 220 BKN	15	TRW-				01	15			CB1CB1CI2	VSBY SW 40				GC
		6	8	RS	11	0100	30SCT E120 BKN 220 BKN	40		122	6.4	3.6	35	08		984	CB4AC2CI	CB NE-E-SE VSBY LWR E QUAD	8870		4668	GC
		6	7	SA	11	0200	E35 BKN 220 BKN	40		126	6.3	3.9	32	03		985	TCU6CI	CB SE QUAD SHWRS SE DSPTG	8879		3967	GC
		6	7	SP	11	0215	E35 BKN 220 BKN	40					29	02			TCU6CI	CB SE QUAD FAIRVIEW AREA OF SE PEAK WDS TORNADO REPORTED 0026	8845			GC
		6	6	SA	11	0300	35 SCT M70 BKN	40		145	5.1	2.5	35	05		988	CB1AC5	CB SE ACC ASCTD (1261)	8854	7023	1566	GC
		4	5	SA	11	0400	35 SCT 70 SCT 220 - SCT	40		148	5.6	1.5	13	01		989	SC1AC2CI1		8867		6545	GC
		2	3	SA	11	0500	70 SCT 220 - SCT	15+		150	5.6	3.7	20	03		990	AC1CI1	ROCTY	8879		6723	GC
	81	1	1	SA	11	0600	70 SCT	15+		150	5.6	3.3	18	05		989	AC1	(1262)	8878	6004	6311	KK

CODED III SYNOPTIC REPORTS

YY	GG	i_w (GMT)	II iii	$i_R i_x$ hVV 31	Nddff 26	$1s_nTTT$ 34	$2s_nT_dT_dT_d$ 35	$3P_0P_0P_0P_0$ 20	4PPPP 33	5appp 42	6RRRt$_R$ 12	7wwW$_1$W$_2$ 32 2-4	$8N_hC_LC_MC_H$	333	$1s_nT_xT_xT_x$ 6	$2s_nT_nT_nT_n$ 8	4E'sss 14	$7R_{24}R_{24}R_{24}R_{24}$ 13	$8N_sCh_sh_s$	$9S_pS_pS_pS_p$
09	4	71		4		1	2		4	5		7	8	333						
10 12	4	71 877		11448	83205	10057	20037	38839	40073	52009	60061	78082	8 8/7xx	333	10348	20050	4	70060		90552
15	4	71		4		1	2		4	5		7	8	333						
18	4	71 877		11580	73106	10078	20042	38862	40114	58010	6 6021	72582	8 4270	333	10105	20050	4	70084		90577
21	4	71		4		1	2		4	5		7	8	333						
11 00	4	71 877		31686	61806	10116	20020	38861	40113	55001	6	71522	8 5403	333	10124	20050	4	70084		
03	4	71		4		1	2		4	5		7	8	333						
06	4	71 877		11874	11805	10059	20033	38888	40150	55004	60021	70198	8 1060	333	10124	20045	4	70100		90560

TIME (GMT) T-12	0900 21 22.5	1200 00 27.8	1500 03 17.8	1800 06 17.7	2100 09 Est	0000 12 5.7	0300 15 6.6	0600 18 7.8
15 Sum (T_{-12} + To)	31.5	27.5	24.4	18.5	18.8	17.3	11.7	13.4
16 Mean (Sum ÷ 2)	15.5	13.8	12.2	9.3	9.4	8.7	5.9	6.7
17 Attached Thermometer	74	76	75	73	74	73	73	73
18 Barometer as read	881.3	883.7	884.9	885.8	885.8	886.7	888.0	888.4
19 Total Correction	0.4	0.2	+0.3	+0.4	+0.4	+0.4	+0.4	+0.4
20 Station Pressure	881.7	883.9	885.2	886.2	886.2	887.1	888.4	888.8
21 Reduction to Sea Level	132.5	133.4	134.0	135.8	135.2	135.2	136.1	136.2
22 Sea Level Pressure	1004.2	1007.3	1010.9	1012.1	1011.4	1012.3	1014.5	1015.0

IV SUMMARY FOR THE CLIMATOLOGICAL DAY ENDING AT 0600 GMT

555 $01S_1S_2S_3$ 1ssss 9 | $2s_ws_ws_ws_w$ 10 | $3d_md_mf_mf_m$ 66 67 | $4f_1f_1f_1f_1$ 67 68 64-66

555 01 0 52 | 1 | 2 | 3 2729 | 4 0012

Day (2 figures) 44	TEMPERATURE Maximum TENTHS 45	TEMPERATURE Minimum TENTHS 46	REL HUMIDITY Maximum 47	REL HUMIDITY Minimum 48	AMOUNT OF PRECIPITATION 6-HOUR TOTAL AMOUNT 1200Z mm & TENTHS 49	6-HOUR TOTAL AMOUNT 1800Z mm & TENTHS 50	6-HOUR TOTAL AMOUNT 0000Z mm & TENTHS 51	6-HOUR TOTAL AMOUNT 0600Z mm & TENTHS 52	24-HOUR AMOUNT Rainfall (R,RW,L, ZR,ZL,A) mm & TENTHS 53	24-HOUR AMOUNT Snowfall (S,SW,IP, IPW,SP, SG,IC) cm & TENTHS 54	24-HOUR AMOUNT Total Precip. mm & TENTHS 55	DEPTH* of snow on the ground at 12Z WHOLE cm 56	DAY WITH Thunderstorms 57	Freezing Rain or Freezing Drizzle 58	Hail 59	Fog, Ice Fog (vsby less than ⅝ mi.) 60	Vsby 6 mi. or less: Smoke, Dust Haze or Haze 61	Vsby 6 mi. or less: Blowing Dust, Blowing Sand 62	Vsby 6 mi. or less: Blowing Snow 63	MEAN WIND OF: 28 or more knots 64	MEAN WIND OF: 34 or more knots 65	PEAK WIND SPEED GUST OR MEAN (leave blank if speed does not exceed 16 knots): Direction nearest 10 degrees (2 figures) 66	Speed 67	Time (GMT) (2 figures) 68
10	12.4	4.5	M	M	6.0	2.4	0	1.6	10.0	TR E	10.0	0	1	0	0	0	0	0	0	0	27	29	01