



Hunt Institute for Botanical Documentation
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About the Institute

The Hunt Institute for Botanical Documentation, a research division of Carnegie Mellon University, specializes in the history of botany and all aspects of plant science and serves the international scientific community through research and documentation. To this end, the Institute acquires and maintains authoritative collections of books, plant images, manuscripts, portraits and data files, and provides publications and other modes of information service. The Institute meets the reference needs of botanists, biologists, historians, conservationists, librarians, bibliographers and the public at large, especially those concerned with any aspect of the North American flora.

Hunt Institute was dedicated in 1961 as the Rachel McMasters Miller Hunt Botanical Library, an international center for bibliographical research and service in the interests of botany and horticulture, as well as a center for the study of all aspects of the history of the plant sciences. By 1971 the Library's activities had so diversified that the name was changed to Hunt Institute for Botanical Documentation. Growth in collections and research projects led to the establishment of four programmatic departments: Archives, Art, Bibliography and the Library.

CAREX CORPORATION
1554 Chamberá Drive
Boulder, Colorado 80303

December 22, 1969

Mr. L. Blick
Assistant City Manager
Municipal Office Building
Boulder, Colorado 80303

Dear Mr. Blick:

This is an invoice for services performed by various members of our staff in assisting the City of Boulder in the preparation of a reply to the R.F.P. from the Department of Housing and Urban Development with respect to An Integrated Municipal Information System.

10 consulting man-days at cost (\$50.00per day)	\$500.00.
total invoice	\$500.00

Payment for this should be by check or voucher and should be made within thir~~ty~~ (30) days of the above date.

Thank you for your time and cooperation.

Sincerely,

Carex Corporation

G. N. Hersh, Treasurer

Bills

CP
13.8
32.4
539.8
3.5
220.0
6.7
72.6

7P
104.0
77.9
197.8
46.7
480.0
406
174.2

Ans ♀
Ans ♀
Big 8 Paules
COW
Bld ♀
♀
♀

12/22/69 charges

~~\$~~ 500

Blick folder 9/24/69

COMPUTER RUNS - WIND DAMAGE

Date	Run No.	Time in Seconds		Comment
		CP	PP	
9/18	669	348	285	① Charge \$68. ⁰⁰
9/16	662	16	71	Charge 2.50
9/04	661	558	347	Charge \$100.50
9/03	657	193	177	NC
8/25	643	104	107	Charge \$20. ⁰⁰
8/14	632	135	179	NC
8/12	629	217	207	NC
8/11	627	196	248	NC
8/08	622	137	128	NC
8/05	619	136	186	NC
8/04	617	23	475	NC
7/13	505	18	60	NC
7/11	502	86	106	NC

① The dollar cost is computed as follows:
 CP billed at \$ 0.125/sec
 PP billed at \$ 0.025/sec

→ Total charge 191.⁰⁰
 Rest 70.
 (Bal due → 121.⁰⁰)

external (@ printing & paper) at ~~30%~~ of it
 approximated at 30% of ~~CP~~ the PP and CP dollar cost.
 Rounded to nearest \$ 0.50

3 September 1969

I N V O I C E

Mr. Larry Blick
Municipal Building
Boulder, Colorado 80302

As per our memo of agreement with respect to the wind
damage survey, dated 6 June 1969, please pay at your earliest
convenience \$750.00 to the Taximetrics Laboratory.

David J. Rogers
Director

DJR:gm
Enc

UNIVERSITY OF COLORADO

BOULDER, COLORADO 80302

TAXIMETRICS LABORATORY
DEPARTMENT OF BIOLOGY
ARMORY 101

PHONE: 303-443-2211
Ext. 6712

6 June 1969

Mr. Larry Blick
City of Boulder
Municipal Building
Boulder, Colorado 80302

Dear Mr. Blick:

We have carefully reviewed the wind damage questionnaires, and work has begun in entering the information on tape.

The list of descriptors being used is enclosed. The brackets on the left indicate which descriptors are found in each questionnaire question block.

It is our understanding that we will provide the following services:

1. Consultation necessary to set up the Define Items from the questionnaire.
2. To record the data found on the questionnaires on magnetic tape in TAXIR Define Item format.
3. To verify the data once on tape against the data on the questionnaires.
4. To build an Accessioner with the given data.
5. To instruct your personnel in the querying of the system, and run a sufficient number of queries to get the feel of the TAXIR system, and to get essential information from the raw data.
6. To provide a cost analysis of the project.

We further understand that there should be about 800-1000 questionnaires for processing and that we should have the verified data on tape within five weeks.

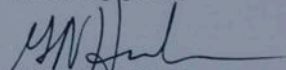
All consulting and training services are provided at no cost. Not more than \$750.00 will be charged for recording the data and using the University of Colorado computer for initial querying.

6 June 1969

The Taximetrics Laboratory has the right to use information about this project.

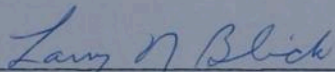
If you are in agreement with this understanding of the project, please sign and return the enclosed copy as it will serve as a memorandum of agreement.

Sincerely yours,

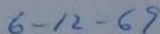


Gilbert N. Hersh
Assistant to the Director

GNH:gm
Enc.



Accepted, Larry Blick



Date

6 June 1969

Mr. Larry Blick
City of Boulder
Municipal Building
Boulder, Colorado 80302

Dear Mr. Blick:

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All consulting and training services are provided at no cost. Not more than \$750.00 will be charged for recording the data and using the University of Colorado computer for initial querying.

19 August 1969

Mr. Larry Blick, Assistant City Manager
Municipal Building
Broadway at Canyon Boulevard
Boulder, Colorado, 80302

Dear Larry:

Attached is the first set of answered queries on the Wind
Damage Survey.

There are two folders. The first contains the control vocabulary;
the second, which is in two parts, contains the defined items and
the answers to your queries.

Please note that descriptor number 1 is the item number.

We hope these are satisfactory. If you wish to run more
queries, please contact Mr. Estabrook next week.

Mr. Hersh will prepare a complete cost/effectiveness report
for you within the next two weeks.

We thank you for your patience.

Sincerely,

David J. Rogers
Director, Taximetrics Laboratory

DJR:H:gm

Memorandum of Agreement

2.

6 June 1969

The Taximetrics Laboratory has the right to use information about this project.

If you are in agreement with this understanding of the project, please sign and return the enclosed copy as it will serve as a memorandum of agreement.

Sincerely yours,

Gilbert N. Hersh
Assistant to the Director

GNH:gm
Enc. 2

Accepted, Larry Blick

Date

file -

Boeder wird boller

CITY OF BOULDER
COLORADO

Survey of Damage from High Wind

Street _____ Name _____
Address _____ of _____
Resident _____ Phone _____

Date you became a resident _____ If resident is not owner, _____ Address _____
at this address _____ Name of _____ of _____
Owner _____ Owner _____

GENERAL INFORMATION CONCERNING BUILDING AT THIS ADDRESS

<p>1 - Type of construction of exterior walls having a westerly exposure:</p> <p><input type="checkbox"/> All Brick</p> <p><input type="checkbox"/> Brick Partway Up</p> <p><input type="checkbox"/> Concrete Block</p> <p><input type="checkbox"/> All Wood</p> <p><input type="checkbox"/> Other, specify: _____</p>	<p>2 - Type Design:</p> <p><input type="checkbox"/> 1-story</p> <p><input type="checkbox"/> Bi- or Tri-Level</p> <p><input type="checkbox"/> 2 Full Stories Above Ground</p> <p>4 - Size of Roof Overhang</p> <p><input type="checkbox"/> Less than 24"</p> <p><input type="checkbox"/> 24" - 47"</p> <p><input type="checkbox"/> 48" or more</p>	<p>3 - Type Roof:</p> <p><input type="checkbox"/> Wood Shingle</p> <p><input type="checkbox"/> Composition Shingle</p> <p><input type="checkbox"/> Gravel</p> <p><input type="checkbox"/> Flat Roof with Smooth Asphalt</p> <p>5 - Did debris hit the Easterly side of your building?</p> <p><input type="checkbox"/> January 7 only</p> <p><input type="checkbox"/> January 31 only</p> <p><input type="checkbox"/> Both January 7 and January 31</p> <p><input type="checkbox"/> No debris hit easterly side of house</p>
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<p>6 - If you have a gravel roof, have you had it checked?</p> <p><input type="checkbox"/> Checked Jan. 7 only</p> <p><input type="checkbox"/> Checked Jan. 31 only</p> <p><input type="checkbox"/> Checked Jan. 7 and Jan. 31</p> <p><input type="checkbox"/> Did not check at all</p>	<p>7 - If there is (are) a building(s) with a gravel roof to the west of you, check:</p> <table border="0"> <tr> <td>Directly West:</td> <td>Northwest:</td> <td>Southwest:</td> </tr> <tr> <td><input type="checkbox"/> 25 - 100 ft.</td> <td><input type="checkbox"/> 25 - 100 ft.</td> <td><input type="checkbox"/> 25 - 100 ft.</td> </tr> <tr> <td><input type="checkbox"/> 100 - 200 ft.</td> <td><input type="checkbox"/> 100 - 200 ft.</td> <td><input type="checkbox"/> 100 - 200 ft.</td> </tr> <tr> <td><input type="checkbox"/> 200 - 600 ft.</td> <td><input type="checkbox"/> 200 - 600 ft.</td> <td><input type="checkbox"/> 200 - 600 ft.</td> </tr> </table>		Directly West:	Northwest:	Southwest:	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.
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<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.												

<p>8 - Type Fence:</p> <p><input type="checkbox"/> No Fence</p> <p><input type="checkbox"/> Chain Link</p> <p><input type="checkbox"/> Wooden-Solid</p> <p><input type="checkbox"/> Wooden-Rail</p> <p><input type="checkbox"/> Other, specify: _____</p>	<p>9 - If there is (are) a vacant lot or a yard which does not have grass or considerable vegetative cover to the west of you, check:</p> <table border="0"> <tr> <td>Directly West:</td> <td>Northwest:</td> <td>Southwest:</td> </tr> <tr> <td><input type="checkbox"/> 25 - 100 ft.</td> <td><input type="checkbox"/> 25 - 100 ft.</td> <td><input type="checkbox"/> 25 - 100 ft.</td> </tr> <tr> <td><input type="checkbox"/> 100 - 200 ft.</td> <td><input type="checkbox"/> 100 - 200 ft.</td> <td><input type="checkbox"/> 100 - 200 ft.</td> </tr> <tr> <td><input type="checkbox"/> 200 - 600 ft.</td> <td><input type="checkbox"/> 200 - 600 ft.</td> <td><input type="checkbox"/> 200 - 600 ft.</td> </tr> </table>		Directly West:	Northwest:	Southwest:	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.
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<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.												
<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.												

<p>10 - Do you think trees or hedge prevented or minimized damage?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>11 - If there was a house or building under construction to the west of you during one or both of the two windstorms, check:</p> <table border="0"> <tr> <td>Directly West:</td> <td>Northwest:</td> <td>Southwest:</td> </tr> <tr> <td><input type="checkbox"/> 25 - 100 ft.</td> <td><input type="checkbox"/> 25 - 100 ft.</td> <td><input type="checkbox"/> 25 - 100 ft.</td> </tr> <tr> <td><input type="checkbox"/> 100 - 200 ft.</td> <td><input type="checkbox"/> 100 - 200 ft.</td> <td><input type="checkbox"/> 100 - 200 ft.</td> </tr> <tr> <td><input type="checkbox"/> 200 - 600 ft.</td> <td><input type="checkbox"/> 200 - 600 ft.</td> <td><input type="checkbox"/> 200 - 600 ft.</td> </tr> </table>		Directly West:	Northwest:	Southwest:	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 25 - 100 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 100 - 200 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.
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<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.	<input type="checkbox"/> 200 - 600 ft.												

<p>12 - Did you have any windows covered by shutters?</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>14 - If there is a hedge at least 5 feet high or trees over 10 feet high, generally west of your house, check:</p> <p>Distance west of house</p> <p><input type="checkbox"/> 0 - 50 ft. <input type="checkbox"/> 50 - 100 ft.</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p><input type="checkbox"/> _____</p> <p>Some hedge 5 ft. high</p> <p><input type="checkbox"/> Evergreen or pine trees fairly close together</p> <p><input type="checkbox"/> Individual evergreen or pine trees</p> <p><input type="checkbox"/> Deciduous trees fairly close together</p> <p><input type="checkbox"/> Individual deciduous trees</p>	
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15 - If debris hit your house or landed in your yard, could you clearly identify it as being any of the following?

<input type="checkbox"/> Jan. 7	<input type="checkbox"/> Jan. 31	<input type="checkbox"/> Individual Shingles	<input type="checkbox"/> Jan. 7	<input type="checkbox"/> Jan. 31	<input type="checkbox"/> Section of Roof	<input type="checkbox"/> Jan. 7	<input type="checkbox"/> Jan. 31	<input type="checkbox"/> Tin or metal e.g. flashing
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Pieces or section of wooden fence	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Materials from construction project	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Lumber or loose items which were stored in neighbors yard
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Gravel and Sand	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Trash cans and/or lids	<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Other	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	

16 - If no damage occurred on Jan. 7 or Jan. 31, check here and return:
 If damage occurred on Jan. 7 and/or Jan. 31, complete the remainder of the questionnaire.

CHARACTER AND EXTENT OF DAMAGE

17 - Was anyone inside your building injured, even slightly, from damage which occurred?

- Jan. 7 only Both Jan. 7, and Jan. 31
 Jan. 31 only No injuries occurred

18 - Do you feel you were lucky that no one, or more persons inside your building were injured?

- On Jan. 7 only On both Jan. 7 and Jan. 31
 On Jan. 31 only None of the above

19 - Estimated cost of damage

January 7 damage in dollars:

\$1 100 250 Over
 99 249 500 500

- To Roof
 To Windows
 Structural
 To Fence
 Interior Furnishings (including painting)
 Exterior Finish (paint, stain)
 Property Outside other than fence or building (e.g. swing set, landscaping)
 Total Est. property damage

20 -

January 31 damage in dollars:

\$1 100 250 Over
 99 249 500 500

- To Roof
 To Windows
 Structural
 To Fence
 Interior Furnishings (including painting)
 Exterior Finish (paint, stain)
 Property outside other than fence or building (e.g. swing set, landscaping)
 Total est. property damage

21 - Roof Damage:
 Did one to 15 shingles blow off?

Jan. 7 Jan. 31

- From house proper
 Attached garage
 Both house and garage
 Porch, carport, breezeway, etc.
 All of the above
 None of the above

22 -

Did more than 15 shingles blow off?

Jan. 7 Jan. 31

- From house proper
 Attached garage
 Both house and garage
 Porch, carport, breezeway, etc.
 All of the above
 None of the above

23 - Did a portion of the roof (not just shingles) blow off?

Jan. 7 Jan. 31

- From house proper
 Attached garage
 Both house and garage
 Porch, carport, breezeway, etc.
 All of the above
 None of the above

24 -

Did damage to vents and flues occur?

Jan. 7 Jan. 31

- From house proper
 Attached garage
 Both house and garage
 Porch, carport, breezeway, etc.
 All of the above
 None of the above

25 - Did gravel roof require replacement of gravel?

Jan. 7 Jan. 31 Jan. 7 Jan. 31

- Yes No

27 - If you lost a portion (not just shingles) of your roof, did a large window blow out preceding the roof damage?

Jan. 7 Jan. 31

- Yes
 No
 Don't know

Describe the sequence of events:

26 - Did any other type of damage occur?

Jan. 7 Jan. 31

- House proper
 Attached garage
 Both house and garage
 Porch, carport, breezeway, etc.
 All of the above
 None of the above
 Specify _____

Name of contractor who repaired structural damage to roof.

28 - Windows not covered by shutters. Check type of damage:

SLIDING DOORS

Jan. 7 Jan. 31

- Pitted or Small Holes
 Broken or Blown out

PICTURE WINDOWS

Jan. 7 Jan. 31

- Pitted or Small Holes
 Broken or Blown out

BASEMENT WINDOWS IN WELLS

Jan. 7 Jan. 31

- Pitted or Small Holes
 Broken or Blown out

LARGE GARAGE DOORS

Jan. 7 Jan. 31

- Pitted or Small Holes
 Broken or Blown out

OTHER WINDOWS

Jan. 7 Jan. 31

- Pitted or Small Holes
 Broken or Blown out

Check direction(s) of broken or pitted windows:

- West North South East
 NW SW NE SE

