UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE
California Forest & Range Experiment Station

STATEMENT OF OFFICE CONDITIONS AT THE
CALIFORNIA FOREST & RANGE EXPERIMENT STATION

April 10, 1935
about 640 cubic feet under peak use but is as low as 360 cubic feet in

the Sather Gate office.

of conditions. The situation is extremely pressing for workers and

R-CAL Under present conditions employees of the Experiment Station work

quarters is more considerable than given from office April 19, 1939 of

in crowded quarters where light, ventilation, and sanitation are frequently

the same. Furthermore, the total floor space of the three buildings

inadequate. For 6800 square feet of floor space, or 67 percent of the

total floor space, both light and ventilation are classified as poor. In a

Statement of Office Conditions at the

California Forest & Range Experiment Station

because employees of the California Forest & Range Experiment Station are

and consequently cannot be used to the best advantage. formerly

at the present time include: 60 permanent, 20 emergency, and 100 transi-

the city

ers, workers, and in some buildings under the then present

employees, and a total of 176 workers. These employees are scattered in

in a high number of buildings across the University of California

in one section. There is a total of approximately 40,000 square feet of

minerals, and a distance from the main office in the Main Laboratory to

Office space about one-eighth to one-eighth to the Radiation Lea-

In general the space in the present buildings is particularly

or clerical housing of employees in cont.1ed; garden house quarters as

building at one building was or 34.5 percent. But the office

Office space are usually high in the radiologist or executive building, in

buildings in the city of Berkeley is not available. A careful survey

building due to number of employees from 6000 to more than 10,000. The city

has established the fact that neither six feet nor four feet office space

floor space per worker is used. It has been been necessary to close part of the

in the total office space used by the School of the present effect

months to 1800 square feet, of which 1300 square feet are occupied

by desks and filing cases. Available floor space per worker averages

6 square feet for all buildings with full use of the office. The minimum

360 square feet in the Sather Gate office. With the average of

number of workers using the office space, 12 square feet per worker are

available. House inmates standards in office buildings require at least

in public use and accommodation of approximately 100

100 square feet per worker. The volume of office space per worker averages
Scattering of workers presents a problem in efficient coordination of activities, for project leaders are often separated from workers and to illustrate the working conditions briefly described above frequently lose considerable time going from office to office. Loss of time and increased costs also result from the necessarily frequent delays under which employees of the California Forest Experiment Station are in transferring data and information. Both messengers and janitors cost working at the present time. The attached table shows in detail the proportion of the staff, in practically inaccessible to the other buildings, and consequently cannot be used to the best advantage. Library material and records, moreover, are kept in a frame building where the fire hazard is high. Under present conditions where offices are not easily accessible to one another, there is a very considerable loss of time, money and efficiency.

Storage space in the present buildings is particularly inadequate, amounting to only 5,000 square feet, or 34,000 cubic feet. About $15,000 worth of the Station's equipment, in addition to that in use in the frame buildings, is stored in a small room where there is danger of destruction by fire. It has even been necessary to store part of the equipment in a public garage, and part at a warehouse at Government Island in Oakland, six miles from the University campus.

Under the present necessity of renting garage storage space in Berkeley for the Station fleet of nearly 100 cars, an average expenditure of about $120 per month, or $1,440 a year, is incurred for storage alone. With a Station garage these storage costs could be saved, and the present gasoline bill of about $300 per month reduced almost 50 percent by having a Station tank and pump. Hiring of a full-time mechanic would also result in better care and maintenance of cars.
Areas, volumes, and numbers of works in buildings

To illustrate the working conditions briefly described above used by the California Forest and Range Experiment Station, there are attached a number of photographs which show the conditions under which employees of the California Forest Experiment Station worked.

<table>
<thead>
<tr>
<th>Building</th>
<th>Gross</th>
<th>Net</th>
<th>Worked</th>
<th>Worker</th>
<th>Space and the intensity of use in each building</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biological Hall</td>
<td>4590</td>
<td>269</td>
<td>570</td>
<td>258</td>
<td></td>
</tr>
<tr>
<td>Station Bld.</td>
<td>1902</td>
<td>92</td>
<td>173</td>
<td>86</td>
<td></td>
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<tr>
<td>Fire Hall, Bld.</td>
<td>1050</td>
<td>55</td>
<td>150</td>
<td>100</td>
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<tr>
<td>Baker Gate</td>
<td>8670</td>
<td>240</td>
<td>1300</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Union Station</td>
<td>1276</td>
<td>58</td>
<td>110</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>Bosworth Hall</td>
<td>6225</td>
<td>225</td>
<td>935</td>
<td>630</td>
<td></td>
</tr>
<tr>
<td>Library</td>
<td>1590</td>
<td>56</td>
<td>116</td>
<td>80</td>
<td></td>
</tr>
<tr>
<td>Metro Hall</td>
<td>450</td>
<td>85</td>
<td>470</td>
<td>470</td>
<td></td>
</tr>
<tr>
<td>Redwood Grove</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
<td></td>
</tr>
<tr>
<td>Gov't Island</td>
<td>168</td>
<td>2,400</td>
<td>2,400</td>
<td>2,400</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td>7,000</td>
<td>5,600</td>
<td>7,000</td>
<td>7,000</td>
<td></td>
</tr>
</tbody>
</table>

1/ Excluding filling space and cabinets.
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Office Space</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Giannini Hall</td>
<td>4660</td>
<td>40,389</td>
<td>4110</td>
<td>56,973</td>
<td>72</td>
</tr>
<tr>
<td>Radiation Lab.</td>
<td>1952</td>
<td>17,568</td>
<td>1628</td>
<td>16,818</td>
<td>18</td>
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<tr>
<td>Life Sci. Bld.</td>
<td>1050</td>
<td>9,450</td>
<td>821</td>
<td>6,450</td>
<td>5</td>
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<tr>
<td>Sather Gate</td>
<td>8675</td>
<td>25,448</td>
<td>2615</td>
<td>25,142</td>
<td>77</td>
</tr>
<tr>
<td>Union Street</td>
<td>1876</td>
<td>11,380</td>
<td>1251</td>
<td>11,170</td>
<td>20</td>
</tr>
<tr>
<td>Bancroft Way</td>
<td>3326</td>
<td>18,068</td>
<td>3176</td>
<td>17,468</td>
<td>9</td>
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<tr>
<td>Library</td>
<td>1895</td>
<td>28,710</td>
<td>1805</td>
<td>25,510</td>
<td>16</td>
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<tr>
<td>Hilgard Hall</td>
<td>408</td>
<td>5,718</td>
<td>504</td>
<td>5,112</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total &amp; Avg.</strong></td>
<td><strong>16,848</strong></td>
<td><strong>167,479</strong></td>
<td><strong>15,346</strong></td>
<td><strong>10,747</strong></td>
<td><strong>119</strong></td>
</tr>
</tbody>
</table>

**Storage Space**

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Giannini Hall</td>
<td>1,466</td>
<td>7,220</td>
<td>2,406</td>
<td>7,390</td>
<td></td>
</tr>
<tr>
<td>Redshawaver Garage</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
<td>15,000</td>
<td></td>
</tr>
<tr>
<td>Gov't Island</td>
<td>100</td>
<td>2,400</td>
<td>100</td>
<td>2,400</td>
<td></td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>5,066</strong></td>
<td><strong>15,420</strong></td>
<td><strong>5,066</strong></td>
<td><strong>24,680</strong></td>
<td></td>
</tr>
</tbody>
</table>

*/ Excluding filing cases and cabinets.*
Ciemniak Hall on the University of California campus, the third
door of which is occupied by the California Forest and Range Experiment
Station. All the personnel of the Station were originally housed in
this building, but increases in numbers of workers has necessitated the
use of the additional buildings located from one-tenth to six miles away.
Completion of a structure of this type would meet with the approval of
the University authorities.
Radiation Laboratory on the Campus of the University of California.

The loft of this old wooden structure, which has been used for laboratory and office purposes, is occupied by California's first radio research and development facility. The facility was established in 1930 and was used to conduct experimental radio research and development work. It was later expanded to include additional facilities.
Interior view of the California Forest & Range Experiment Station drafting room in Radiation Laboratory, showing contrasting lighting conditions, type of equipment available, and the modern construction of the building. No sanitary facilities are available in the building, yet as many as thirty-five workers use the 1696 square feet of floor space.
Exterior view of the California Forest & Range Experiment Station offices in Radiation laboratory, showing how the sheet roofing is raised to provide the only ventilation possible.
Filing cases of the California Forest & Range Experiment Station in Radiation Laboratory, illustrating the storing of valuable maps and records in fire-trap equipment and construction. Approximately $30,000 worth of records and research material are stored in this building.
A store building owned by the University of California and located at the Sather Gate entrance to the U. C. campus. On the second floor of this building are the rented "Sather Gate" offices of the California Forest & Range Experiment Station.
A room in the Sather Gate office building used by employees of the California Forest & Range Experiment Station. The crowding of 38 persons into a room 22' x 29', with noise and poor ventilation, is not conducive to efficient work.
Another office room in the Sather Gate building used by the California Forest & Range Experiment Station. This view shows the working conditions and types of partitions in the building. About 386 square feet of floor space accommodates 15 workers, providing an average of only 22 square feet for workers.
A room in the Sather Gate office building used by employees of the California Forest & Range Experiment Station. Note the crowded working conditions and the inadequacy of light and ventilation. The room shown above comprises only 1540 square feet, but accommodates as high as 41 workers, an average of only 38 square feet per worker.
Part of the Sather Gate offices rented by the California Forest & Range Experiment Station. Permanent records are filed near the stove in rear, the inadequate lavatory has no door, light is brilliant near the windows but inadequate at the work tables.
Union Street building, an obsolete residence located about one-half mile from Giannini Hall, used by the California Forest & Range Experiment Station as an office building.

nos #11
Drafting room at the Union Street office, showing the inadequacy of lighting and ventilation. Field maps and records of the California Forest & Range Experiment Station filed in this remodelled old residence are valued at $100,000, yet fire protection is totally inadequate.
A room in the Union Street office building used by the California Forest & Range Experiment Station, illustrating the adaptation for office use of the rooms in an old frame residence. The frame construction of the building and the crowding of tables and desks into small rooms involves considerable fire danger.

H 08 #13
The Library of the California Forest & Range Experiment Station, located in a store building at 2250 Bancroft Way, about one-half mile from the main office in Giannini Hall. The library material is not only exposed to fire danger, but is so remote from workers in the ten other scattered buildings that Station workers can make little use of the available material.
An office of the California Forest & Range Experiment Station in the building at 2244 Bancroft Way, located about one-half mile from Giannini Hall. Note the poor lighting and the working conditions. About $55,000 worth of records and research material are used and filed in this office.
Another office in the building at 2244 Bancroft Way used by the California Forest & Range Experiment Station, showing the poor working conditions, the crowding together of all types of workers, and the non-fireproof construction of the building.

NDS #14