

# Farm crops

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expand generating capacity at the Chalk Point power plant. To eliminate further thermal pollution of the river, PEPCO installed natural-draft cooling towers, which dissipate generated heat as steam.

The two Chalk Point cooling towers each have a capacity for circulating 250,000 gallons of water per minute. This study concerns only cooling tower No. 3.

Unit 4 is not scheduled to begin operation until 1982.

Saline aerosol droplets are created when the towers are in operation. Inside each tower, salt concentration of the brackish water increases two-fold. This is a result of stream evaporation from the circulating water.

Because of the possible environmental impact from salt deposition on area vegetation, the Maryland Power Plant Siting Program

contracted with the Water resources Research Center to define standards for safe power plant operation. The aim was to prevent salt damage to nearby farm crops and native vegetation.

The Power Plant Siting Program is administered by the Energy and Coastal Zone Administration of the state Department of Natural Resources. It also coordinates with the state departments of Health and Mental Hygiene, Economic and Community Development, State Planning, and Transportation. Also, the

Comptroller of the Treasury and the Public Service Commission.

When PEPCO installed the first natural-draft cooling tower, there was little information available concerning the effects of salt drift from brackish-water cooling towers on agricultural and native plant species.

The Maryland research workers developed 12 permanent observation points, encompassing north, east, south and west sites - located one, three and six miles away from the Chalk Point power plant.

Each site measured 0.4 acre and contained three plot replications of tobacco, soybeans and corn. In addition, Dr. Mulchi and two fellow agronomy department faculty members studied areas of undisturbed soil. University of Maryland botanists looked at the natural vegetation.

Three dust collectors measured airborne salts and other particle accumulation at each research site. Water accumulated in the rain gauge at each location was analyzed for salinity content and pH (a measure of acidity).

(Turn to Page 126)

# Lancaster Co. DHIA

(Continued from Page 122)

|                         |    |       |      |      |          |
|-------------------------|----|-------|------|------|----------|
| Robert H. Rohrer & Sons |    |       |      |      |          |
| GrH                     | 27 | 224.1 | 89.4 | 46.9 | 3.8 1.80 |
| Howard S. Erb           |    |       |      |      |          |
| RH                      | 33 | 44.8  | 86.3 | 49.5 | 3.6 1.80 |
| Joseph W. Best          |    |       |      |      |          |
| GrH                     | 30 | 104.5 | 91.6 | 44.6 | 4.0 1.79 |
| Samuel K. Stoltzfus     |    |       |      |      |          |
| R&GrH                   | 33 | 37.4  | 80.9 | 50.7 | 3.5 1.79 |
| John F. Petersheim      |    |       |      |      |          |
| R&GrH                   | 34 | 38.0  | 86.3 | 48.3 | 3.7 1.79 |
| William W. Absher       |    |       |      |      |          |
| RH                      | 30 | 9.7   | 82.1 | 48.8 | 3.7 1.79 |
| Sunny Craft Farm        |    |       |      |      |          |
| RH                      | 33 | 31.7  | 92.2 | 44.2 | 4.0 1.78 |
| Denlinger & Stoltzfus   |    |       |      |      |          |
| Mix                     | 31 | 70.6  | 87.3 | 41.2 | 4.3 1.78 |
| James G. Kreider        |    |       |      |      |          |
| R&GrH                   | 28 | 157.3 | 92.1 | 47.3 | 3.8 1.78 |
| Paul N. Brubaker        |    |       |      |      |          |
| R&GrH                   | 34 | 70.5  | 85.4 | 47.5 | 3.7 1.78 |
| Harry L. Troop          |    |       |      |      |          |
| RH                      | 33 | 51.3  | 89.0 | 48.1 | 3.7 1.78 |
| Shadytop Farm           |    |       |      |      |          |
| R&GrH                   | 32 | 37.8  | 92.0 | 54.1 | 3.3 1.78 |
| Harold G. Shelly        |    |       |      |      |          |
| R&GrH                   | 28 | 31.1  | 87.7 | 50.6 | 3.5 1.78 |
| Springarden Farm        |    |       |      |      |          |
| RH                      | 34 | 77.1  | 86.2 | 48.9 | 3.6 1.78 |
| Donald M. Eckman        |    |       |      |      |          |
| R&GrH                   | 33 | 45.0  | 85.2 | 45.1 | 3.9 1.78 |
| Bruce H. Hershey        |    |       |      |      |          |
| Mix                     | 31 | 56.4  | 87.4 | 46.5 | 3.8 1.77 |
| Paul B. Zimmerman       |    |       |      |      |          |
| R&GrH                   | 63 | 41.5  | 81.7 | 44.3 | 4.0 1.77 |
| Harry Zimmerman Jr.     |    |       |      |      |          |
| R&GrH                   | 29 | 41.6  | 95.0 | 45.9 | 3.9 1.77 |
| Joseph DeLong           |    |       |      |      |          |
| GrH                     | 31 | 71.9  | 88.5 | 43.1 | 4.1 1.77 |
| Reuben L. Stoltzfus     |    |       |      |      |          |
| R&GrH                   | 31 | 38.1  | 85.4 | 44.9 | 3.9 1.77 |
| James & Kenn Miller     |    |       |      |      |          |
| R&GrH                   | 29 | 40.6  | 90.5 | 45.6 | 3.9 1.77 |
| Isaac S. Beiler         |    |       |      |      |          |
| Mix                     | 32 | 47.4  | 89.1 | 49.2 | 3.6 1.77 |
| Paul Sauder             |    |       |      |      |          |
| R&GrH                   | 29 | 63.4  | 88.8 | 48.5 | 3.6 1.76 |
| Raymond & Louis Witmer  |    |       |      |      |          |
| R&GrG                   | 21 | 68.3  | 87.0 | 35.3 | 5.0 1.76 |
| J. Wilmer Conrad        |    |       |      |      |          |
| R&GrH                   | 33 | 39.0  | 86.6 | 45.1 | 3.9 1.76 |
| Kenneth B. Garber       |    |       |      |      |          |
| R&GrG                   | 30 | 60.3  | 91.2 | 35.2 | 5.0 1.76 |
| Shellenberger Bros.     |    |       |      |      |          |
| R&GrH                   | 29 | 73.1  | 87.4 | 48.2 | 3.7 1.76 |
| Paul H. Rohrer          |    |       |      |      |          |
| GrH                     | 32 | 78.9  | 88.6 | 47.7 | 3.7 1.76 |
| John David Martin       |    |       |      |      |          |
| Mix                     | 43 | 35.0  | 92.0 | 49.4 | 3.6 1.76 |
| John E. Fisher          |    |       |      |      |          |
| R&GrH                   | 29 | 31.7  | 80.6 | 45.9 | 3.8 1.76 |
| Jacob Speicher Jr.      |    |       |      |      |          |
| R&GrH                   | 28 | 35.0  | 81.8 | 48.2 | 3.7 1.76 |
| Kenneth D. Myer         |    |       |      |      |          |
| Mix                     | 39 | 66.2  | 85.1 | 44.8 | 3.9 1.76 |

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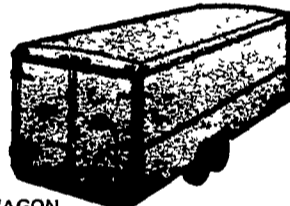
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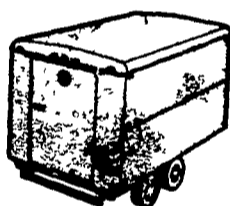
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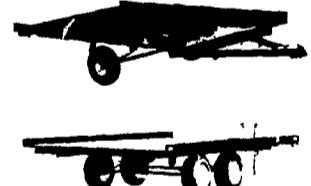
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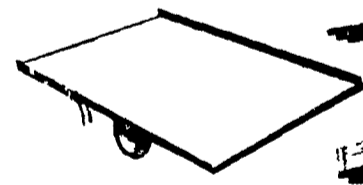
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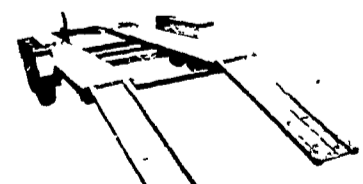
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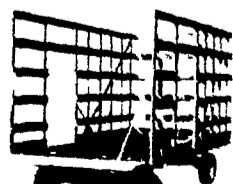
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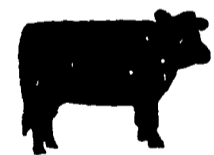


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