-Lancaster Farming, Saturday, November 5, 1966"

Water Resources

universal color symbolizing water resources in the county plant which varies from as plant at Manheim draws about 80,000 g.p.d. from the Quarryfertility, and accordingly, the (see editorial Lancaster Farm- high as 400,000 gallons per 650,000 g.p.d. from ground ville sewage plant. Irrigation earth has often been called ing 10/22/66 for summary), day in the summer season to sources. After usage and set-withdrawals from the basin "The Green Planet." Lancas-Feeling that everyone involved about 50,000 gallons per day tling, that water flows into have been estimated at 1.25 ter County, in turn, has been in agriculture should know during the remainder of the Chickies, supplementing the million gallons per day in known as of these gratifying titles is one future farming, we will report shed area of 19.2 square miles. are reported as substantial, 39.2 square miles. It originates basic ingredient - WATER! some of the study's highlights It originates in Mount Joy but no figures given. The Lancaster County Plan- in weekly installments.)

"The Garden Spot about this study and should year.

Part I . . .

County Streams Overloaded; Water Chocolate Co. of Elizabeth which is in the county. The of the surface waters of Con-Levels Too Low, Study Indicates

BACKGROUND

County was established, there were no particular water probcentury is through.

By the year 2010, it is esti-By the same time, the water is from ground water discharge quirements.

water are surface — local County; travels in a southwest- stream flows south and east to tains of Lancaster County and 130,000 g.p.d. at Christiana, streams and ponds; ground - erly direction for 20.8 miles Manheim, then to the Susque- flows 44 miles to the Susque- and to 6000 g p.d. from the wells and springs. The report to join the Susquehanna River hanna River. The main stream hanna River. shows that the former is an at Falmouth. During its last channel has a length of 29.7 Pequea Creek has two major School.

In 1729, when Lancaster source only until about 1985. SURFACE WATER

population, disposable income, water quality, low-flow dura- day. leisure time, mobility, and ur- tion, and flood frequency. toraro.

population will have doubled. "when the flow of the stream rigation. needs per person (including in- and there is no surface run- Elizabethtown sewage treat- City of Lancaster. The effluent use averaged 24 million galdustry) will have approximate off." The study points out that ment plant, discharge waste of numerous sewage treatment lons per day. The Octoriano ly tripled. Together, these the low-flow figures were based water and effluent into the plants is discharged into the Water Co. pumps 920,000 g.p.d. facts add up to water needs on limited data and are to Conoy in amounts totaling 412, creek daily. Detailed usage is to supply water to Quarryville totaling six times today's re- be used only in very prelim- 000 gallons per day. inary investigations.

the only available sources of ates in Furnace Hills, Lebanon Hills of Lebanon County. The originates in the Welsh Moun- treatment plants, amounting to unreliable supply, and that the 11.5 miles, the Conewago rep- miles, with a watershed cover- tributaries, Big and Little resents the boundary between ing 127 square miles.

Lancaster and Dauphin Coun- Three boroughs utilize this

slight and infrequent. Some plied by Chickies). water is also drawn from the stream for irrigation.

some well water, was returned side therein.

The Elizabethtown Water Co.

lons daily. An indeterminate Creek.

The base flow period for amount of water is also with-

"The Conewage is used as a Joy, 400,000 g.p.d. maintenne susantene supplementary source of water 420,000 g.p.d.; and Mountville, nicipalitysupply by the Elizabethtown (though not in the watershed, Creek or its tributaries for wa-Water Company, although ac- draws about 100,000 g.p.d. ter supply. Also, field inspectual withdrawals have been from Grubb Lake which is sup- tion and available records did

ville, the boroughs return ap- was discharged into the creek, (Editor's Note: Green is the leased a complete report on Borough sewage treatment ment. Also, the Raybestos ior High School, and about natural stream flow. With- 1965.

Conoy Creek — has a water- drawals of water for irrigation

bethtown to the Susquehanna largest and most used of Lan- the stream's total 19.1 miles River, a distance of 9.6 miles. caster County's principal are in Lancaster County. Conoy Creek is utilized as a streams. The creek drains 477 Except for some irrigation, source of water by the Klein square miles, 83 percent of there are no recorded usages town, During 1964, the Klein Conestoga Crcek basin consti- owingo Creek and tributaries. Co. drew an average of 210,- tutes about 42 percent of the Octoraro Creek - is the sec-000 gallons per working day total land area in the county, ond largest stream in Lancaslatter will be a satisfactory from the creek for its cooling and two-thirds of the entire ter County with a drainage systems. Most of this, plus population of the county re- area of 212 square miles. The

tems here. Recent increases in caster County were studied for timated at 270,000 gallons per estoga Creek channel is 60.8 Creek and has a total length mîles.

The Conestoga has five ma- in Pennsylvania. banization have all set the These streams were: Conewago, also draws water from the jor tributaries: Little Conesstage for serious water prob- Conoy, Chickies, Conestoga, Conoy. Company records show toga, Mill Creek, Lititz Run, thority has a 2.5 billion gallems in the county before this Pequea, Conowingo, and Oc- amounts average 130,000 gal- Cocalico Creek and Muddy lon reservoir at the junction

mated that Lancaster County's each stream was defined as drawn from this stream for 1r. Conestoga is heavily utilized voir and the flow of the two as a water supply source for branches supply water to the Several companies, plus the boroughs, irrigation, and the City of Chester. In 1964, this too complex to list here.

Discounting the rain barrel, Conewago Creek - origin- headwaters in the Furnace area of 154 square miles. It stream effluent from sewage

Beaver Creeks.

utilizes Pequea not reveal any industrial us-With the exception of Mount- ers. In 1964, sewage effluent

Conowingo Creek — drains Township, flows through Eliza- Conestoga Creek - is the all but the last 3.5 miles of

stream is formed by the East Seven major streams in Lan- to the stream in amounts es- The total length of the Con- and West Branches of Octoriano of 21.8 miles, with 12.9 miles

> The Chester Municipal Auof the East and West Branch-

With its tributaries, the es of the Octoraro. The reserand some Chester County com-Chickies Creek - has its Pequea Creek - drains an munities discharged into the

> SUMMARY - The study (Continued on Page 8)

Bart-Colerain Elementary

