The bulk of the domestic needs are met through imports. Because of the limited resource outlook for some grades of graphite and economic factors in other instances it seems apparent that reliance on imports will continue in the foreseeable future. Dependence upon uncertain sources for certain high-quality types of graphite could be minimized by perfecting capabilities to substitute among the various types of graphite and among graphites of the same type from

Improvements in the technology of synthesizing acceptable graphite-type substances from other carbon forms would minimize the uncertain supply outlook. At different sources. (See section on carbon). the present state of the art manufactured graphite does not compete well with

natural graphite in most end uses.

Resources are, for all practical purposes, unlimited. Imports depend upon local transportation and economic advantages and have no bearing on availability. transportation and economic advantages and have no bearing on availability.

Demand relates directly to building and construction needs even though the commodity is employed in a variety of end-uses. The rate of growth in the gypsum industry would seem to rest upon the development of new gypsum-based products

and the acceptance of such products by the building trades. Byproduct gypsum discarded from the manufacture of phosphoric acid, presently a disposal problem, should find some utilization in gypsum-based products.

Cyperim is soon as a potential commercial course of sufferior (sufferior condition). Gypsum is seen as a potential commercial source of sulfur (sulfuric acid).

The primary supply of hafnium is wholly a function of zirconium with which it is geochemically related in nature in a ratio of about 1 to 50 (see section on It is geochemically related in nature in a ratio of about 1 to 50 (see section on zirconium). Hafnium was not discovered until 1922 and has been available comparitions. Hafnium was not discovered until 1922 and has been available comparitions of acceptable compatitors. Only its appearance as a propose of acceptable compatitors. Only its appearance as a propose of acceptable compatitors. it has a number of acceptable competitors. Only its appearance as a necessary n has a number of acceptable competitors. Only its appearance as a necessary reject in the production of hafnium-free zirconium permits its commercial rereject in the production of nathrum-free zircontum permits its commercial recovery and employment. Possibly, the significance of hafnium as an alloying almost has not been fully explored element has not been fully explored.

While traces of helium exist in the atmosphere and might be derived from other sources, these occurrences are academic and the only realistic resource is certain natural gases in which helium is present as a minor constituent. Much certain natural gases in which helium is present as a minor constituent. Much of the known helium-bearing gas is being marketed and, except for the helium extracted enroute, the contained helium is being depleted as an incident to the depleted of the natural results of the natural results and the natural results are the natural results are the natural results are the natural results and the natural results are the natural results are the natural results are the natural results and the natural results are extracted enroute, the contained nellum is being depleted as an incident to the depletion of the natural gas. The prospect for discovering new resources of significant volume is not considered promising. Accordingly, attention is directed to the quantity of helium, that it would be practicable to recover with present technology that is presently being wested

The Federal Government dominates the helium industry, although the private technology, that is presently being wasted. sector of the industry is growing and it is expected that private producers will aggressively seek to expand the uses for helium. The Federal Government agenaggressively seek to expand the uses for neman. The rederal Government agencies are also the dominant consumers in the United States and are required by law to obtain their major requirements from Government sources. The Government sources are also the dominant consumers in the United States and are required by ment price is established to recover the costs of conserving some of the helium that would otherwise be wasted and, therefore, is higher than the price of helium from private sources. Some means of equalizing the cost of helium conservation

programs between Federal and private sources deserves attention. The technology of helium extraction is well advanced except that improvements in transportation methods promise a means of reducing costs at initial points of delivery. Also, ultimate supply can be extended by more efficient employment,

Expanding and diversified uses for helium are probable. While the properties of helium preclude substitution by other gases in certain specialized applications. recovery, and reuse practices in end-use applications. of herium precious substitution by other gases in certain specialized applica-tions, some large volume uses can be accommodated by other gases with minor inconveniences or cost differentials. However, because helium has been generally more expensive than the substitute materials, its use tends to be concentrated where technical or safety considerations dictate a preference. Lower helium