ALLEGHENY COUNTY

WAYNESBURG									
SEWICKLEY									
REDSTONE									
PITTSBURGH									
TOTAL OF (6) BEDS									

FAYETTE COUNTY

WAYNESBURG									
SEWICKLEY									
REDSTONE									
PITTSBURGH									
TOTAL OF (6) BEDS									

ARMSTRONG COUNTY

SEWICKLEY									
KITTANNING									

INDIANA COUNTY

BAKERSTOWN									
BYERS CREEK									
HOMINY									

BUTLER COUNTY

BAKERSTOWN									
HOMINY									
UPPER FREEPORT									
LOWER FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
CLARKSVILLE									
TOTAL OF (6) BEDS									

JEFFERSON COUNTY

UPPER FREEPORT									
LOWER FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (6) BEDS									

CAMBRIA COUNTY

COAL									
COAL									
BAKERSTOWN									
HOMINY									
UPPER FREEPORT									
LOWER FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (6) BEDS									

SOMERSET COUNTY

KEDSTONE									
PITTSBURGH									
LIMESTONE									
CONNELLSVILLE									
TOTAL OF (4) BEDS									

CENTRE COUNTY

U. FREEPORT									
L. FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (5) BEDS									

JUNIATA COUNTY

U. FREEPORT									
L. FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (4) BEDS									

CLARION COUNTY

BRUSH CREEK									
HOMINY									
U. FREEPORT									
L. FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (6) BEDS									

WASHINGTON COUNTY

BRUSH CREEK									
WAYNESBURG									
SEWICKLEY									
PITTSBURGH									
LIMESTONE									
CONNELLSVILLE									
TOTAL OF (6) BEDS									

CLEARFIELD COUNTY

DARLINGTON									
BRUSH CREEK									
HOMINY									
U. FREEPORT									
L. FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (6) BEDS									

WESTMORELAND COUNTY

WAYNESBURG									
SEWICKLEY									
REDSTONE									
PITTSBURGH									
TOTAL OF (4) BEDS									

ELK COUNTY

U. FREEPORT									
L. FREEPORT									
U. KITTANING									
L. KITTANING									
CLARION									
BROOKVILLE									
TOTAL OF (6) BEDS									

GREENE COUNTY

WAYNESBURG	280	4	0	8	0				
SEWICKLEY	70'	3	0	4	0				
PITTSBURGH	30'	0	3	9	0				
TOTAL OF (6) BEDS.									

U. FREEPORT 60' 0 0 3 2
L. FREEPORT 50' 0 0 2 0
U. KITTANING 40' 0 0 3 0
M. KITTANING 40' 0 0 3 0
L. KITTANING 50' 0 0 3 0
CLARION 35' 0 0 3 0
TOTAL OF (6) BEDS

ALLEGHENY-7 · MONONGAHELA-6 · ALLEGHENY-6 · ALLEGHENY-5 · MONONGAHELA-4 · ALLEGHENY-4 · MONONGAHELA-3 · ALLEGHENY-3 · CONEMAUGH-3 · ALLEGHENY-2 · CONEMAUGH-2 · ALLEGHENY-1 · CONEMAUGH-1 · ALLEGHENY-7 · MONONGAHELA-6 · ALLEGHENY-6 · MONONGAHELA-5 · ALLEGHENY-5 · MONONGAHELA-4 · ALLEGHENY-4 · MONONGAHELA-3 · ALLEGHENY-3 · CONEMAUGH-3 · ALLEGHENY-2 · CONEMAUGH-2 · ALLEGHENY-1 · CONEMAUGH-1

LOCATION OF THE MORE PROMINENT BITUMINOUS BEDS OF PENNSYLVANIA

NAME OF SEAM OR BED OF COAL

WASHINGTON
WAYNESBURG, A
WAYNESBURG
UNIONTOWN
SEWICKLEY
REDSTONE
PITTSBURGH

MORGANTOWN
LITTLE PITTSBURGH
FRANKLIN
LOWER CONING
CONING
CLARYSVILLE
MILLERSBURG
BARTON
GREENE
HAMLIN
BAKERSTOWN-UPPER
BAKERSTOWN-LOWER
BRUSH CREEK
HOMINY

U. FREEPORT - E - KELLY
L. FREEPORT - D - MOSHANNON - DUDLEY
U. KITTANING - G - BARNESTOWN - SEYMOUR
M. KITTANING - C - TWO RED - MAHONING
L. KITTANING - B - HARVEY - BLOSS - MILE
SCRUGGRASS
CLARION - A - FULTON
BROOKVILLE - CANOE - BEAR CREEK.

MOSHANNON - PIONEER
U. MERCER - U. ALTON
L. MERCER - L. ALTON
BROOKVILLE
SHARON

INFORMATION AS TO MINERAL PRODUCTION, IN RESOURCES OF PENNSYLVANIA.

PENNSYLVANIA IS DUE MAINLY TO THE INITIATIVE AND ENTERPRISE OF ITS PEOPLE, AIDED BY THE GOVERNMENT AND WORK BUT ESPECIALLY THE GEOLOGICAL SURVEY. IN 1830 THE MINED PRODUCT AND SOLD THE IRON MINED IN THE STATE IN 50 YEARS AGO SHE MINED 66% OF THE NATIONS COAL, BUT ONLY 33% TO 1920 SHE HAS MINED 7 BILLION TONS, THE REST OF THE STATES 6492 MILLION TONS. THE INDUSTRY BEGAN IN PENNSYLVANIA WHICH PRODUCED MORE THAN ONE-HALF OF THE TOTAL

STILL STOOD "FIRST" (LATEST INFORMATION) IN VALUE OF CEMENT, RAW FUEL, COKE, PIG IRON, MINERAL PAINTS AND SLATE, BILLETS, WELL USED BY PRODUCTS - LIME STONE, SILICA SANDSTONE AND TRIPOLI, SULPHURIC ACID FROM COPPER & ZINC SMELTERS.

PENNSYLVANIA PRODUCES ABOUT ONE-SEVENTH (1/7) OF THE COAL SUPPLY - PIG IRON LESS THAN ONE-FIFTH (1/5) OF THE NATION - ONE-TENTH (1/10) OF THE WORLDS - MEANS OF LIVELIHOOD - MINERAL PRODUCTS - VALUES OF DOLLARS, PENNSYLVANIA 2,000, IN 1,18. GERMANY 1000. AND FRANCE 800.

BEDS, THICKNESS AND TONNAGE MINED AND ESTIMATED FOR EACH FIELD.

NUMBER OF PRINCIPAL BEDS	16
MAXIMUM THICKNESS	144 FT.
AVERAGE OF ALL BEDS.	14.5 FT.
TONNAGE REMAINING IN MILLION, LONG TONS	16,350,0
TONNAGE RECOVERED IN MILLION, LONG TONS	8,900,0
AREA OF THE PENNA. ANTH. COAL FIELDS IN SQ. MILES	484,

THE COAL BEDS, PRINCIPAL BEDS, THICKNESS AND AREA OF THE BITUMINOUS COAL FIELD.

NUMBER OF BEDS IN THE BITUMINOUS COAL FIELD 74
NUMBER OF BEDS IN THE BITUMINOUS COAL FIELD 10
THICKNESS IN FEET, (AND LESS) 2'-16', FT.
THICKNESS OF BEDS IN THE "BIG" BED. 76
TONNAGE IN BILLION SHORT TONS. 3,800
TONNAGE RECOVERED 1,900
AREA OF THE PENN. BIT. COAL FIELDS IN SQ. MILES 14,200

TONNAGE PER SQUARE MILE IN BILLION SHORT TONS IN THE FOLLOWING COUNTIES.

GREENE COUNTY	6,3
FAYETTE COUNTY	5,4
CAMBRIA COUNTY	4,8
SOMERSET COUNTY	3,7
CLARION COUNTY	3,6
CLEARFIELD COUNTY	3,2

OF THE BITUMINOUS COAL BEDS ARE NEARLY HORIZONTAL TO MANY MILES UNDER SOME DEGREE. RECOVERY AVERAGES 71% PER CENT IN 1923 THE TOTAL PRODUCTION WAS 2,361,448,778 SHORT TONS.

OF THE ANTHRACITE COAL BEDS ARE VERY IRREGULAR IN NEARLY VERTICAL, COMMONLY TURNED AND BROKEN. THE ANTHRACITE COAL WEIGHS 80 LBS. PER CU. FT. WHICH A TON OF WATER TO ONE TON OF COAL. RECOVERY AVERAGES 60 PER CENT. THE ENTIRE PRODUCT IN 1923 WAS FORMERLY MUCH LESS. 3,478,458,909 SHORT TONS.

INFORMATION PERTAINING TO PENNSYLVANIA COALS AS TO THE CHARACTER, USES, AND.

→ THE BITUMINOUS COALS OF PENNSYLVANIA LOW VOLATILE TO HIGH VOLATILE, BUT ARE COAKLESS. THE FIRST ARE USED FOR STEAM COKING - NON-CAKING OR SPLINT COAL, AND THE PERCENTAGES OF VOLATILE MATTER CHANGE FROM LOW AT EAST TO HIGH AT THE WEST IS RELIEVED DUE TO THE PRESSURE CAUSED BY THE COALS ALONG WITH OTHER ROCKS IT HAS BEEN SUBJECTED TO.

PRACTICALLY ALL OF THE COALS OF PENNA. ARE THOUGH MANY BECAUSE OF HIGH ASH ARE NOT USED. THE COAL OF THE PITTSBURGH BED HAS LONG BEEN FAMOUS AS A STEAM COAL. THIS COAL CHARACTERIZED EXCELLENTLY BY THE PAST, BUT WITH THE INTRODUCTION OF STOKERS AND THE USE OF POWDERED COAL THESE DO NOT AFFECT THE SAME GREAT FORMERLY OVER THE MORE TENDER EASTERN COALS HAVE A HIGHER HEATING VALUE, BUT UNDER THEM OF LOCOMOTIVE COMBUSTION IS NOT TO BE TO IT BEING SO READILY BLOWN OUT OF "ASH." THUS THE PITTSBURGH DISTRICT IS KING FOR LOCOMOTIVE AND SIMILAR USES.

AVAILABLE MARKETS ARE AS FOLLOWS:-
BUNKER TRADE - THE EXCEPTIONALLY HIGH VOLATILE COALS OF THE CONNELLSVILLE COUNTIES HAVE LONG BEEN FAVORITES, PARTLY DUE TO THE FAVORABLE FREIGHT RATES. THIS DISTRICT INCLUDES THE FIELDS OF SOMERSET, CAMBRIA, CLEARFIELD AND CENTRE COUNTIES.

CONTINUED IN THE NEXT COLUMN:—

COKE AND METALLURGICAL — THE MINOR COALS OF EASTERN PENNSYLVANIA AND THE ANTHRACITE COUNTIES, INDIANA AND WESTERN COUNTIES ARE LOCATED DURING THE TIME WHILE THE COALS OF THE LOWER YOUGHIOGHENY AND THE MONONGAHELA RIVER AS FAR AS FAIRMONT, WEST VIRGINIA, AND ALONG THE BALTIMORE & OHIO R.R. BURGH OR YOUGHIOGHENY GAS COAL.

KENNET BURNING — COAL FOR CEMENT BURNING MUST BE RICH IN VOLATILE MATTER AS A LONG FLAME IS NECESSARY. AS THE COALS ARE MINED FROM HIGH COALS EVEN OR MEDIUM ASH CONTENT MAY BE USED. NEARLY ALL OF THE VOLATILE COALS OF PENNSYLVANIA MAY SERVE FOR THIS USE.

DOMESTIC COALS — WHILE ALL COALS MAY BE, AND ARE USED FOR DOMESTIC PURPOSES, INQUIRY EQUALLY CONTENDED TO OPEN BURNING OR NON-CAKING COALS. ALL OF THE CANNEL COALS FALL IN THIS CATEGORY, AS THE VOLATILE MATTER IS HIGH. THE BROAD-TOP FIELDS ARE GENERALLY CREDITED BEST. NEARLY ALL OF THE VOLATILE COALS OF PENNSYLVANIA MAY SERVE FOR THIS USE. ANTHRACITE FOR GENERAL HOUSEHOLD USE OR NEEDS.

POWDERED COAL — THE GROWING USE OF COAL IN POWDERED FORM IS INCREASED INQUIRY EQUALLY REGARDING SUCH COAL. WHILE PRACTICALLY ALL COALS MAY BE USED, EXPERIMENTS HAVE SHOWN THAT THE BEST RESULTS ARE OBTAINED FROM HIGH VOLATILES LOW ASH, AND LOW MOISTURE COALS. THE BITUMINOUS COALS OF THE EASTERN COUNTIES HAVE ADVANTAGE OF COSTING LESS TO PULVERIZE, BUT THOSE IN THE WESTERN PART MAY BE MARKETED UNDER PROPER CONDITIONS HIGH ASH COALS MAY BE USED IN THIS WAY.

SMITHING COAL — THE LOW VOLATILE COALS OF SOMERSET AND CAMBRIA COUNTIES HAVE LONG BEEN FAVORITES FOR SMITHING USE. SUCH COALS SHOULD BE LOW IN SULPHUR AND PHOSPHORUS. THE DISTRICTS IN THE COUNTIES MENTIONED HAVE BUILT UP A GOOD SPREAD TRADE IN COALS FOR SMITHING.

POTENTIAL MARKETS — BECAUSE OF THE HIGH GRADE AND LONG HISTORY OF CANNEL AND HIGH HEATING VALUE, PENNA. BITUMINOUS COALS FIND A WIDE-SPREAD MARKET. THE COAL IS SHIPPED FROM TIDE-WATER FOR EXPORT AND BUNKER USE. SOME COALS FROM CAMBRIA AND SOMERSET COUNTIES ARE SHIPPED BY RAIL TO BOSTON, NEW YORK, NEW ENGLAND AND TIDEW