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Opening Aug 15, 1914 S.S. Acon
Goethals did not make trip
Ship went from ocean to ocean
International route.

History

Balboa had first idea around
1517

Charles V of Spain ordered studies
in 1523.

1529 Alvaro de Saavedra completed
plans after 12 years study but
died before he could submit them to king
Tehuantepec and Nicaragua
suggested before 1530

Spanish king ordered surveys made
in 1534

1814 Spain authorized canal company.

1825 first American company.

1835 Andrew Jackson ordered surveys
of Panama + Nicaragua

1843 first French company who
favored Panama

20 months surveys including a
tunnel.

(2)

France Co. 1879 De Lesseps

1st detachment sent Jan 1881

1st working force at Empire^{Jan} 1882

1882-88 - 69 000 000 cu yd excavated

Changed from sea-level to lock

Receivership 1889

1894 started again

machinery too light

Total excavated 78,146,960 of which

29,908,000 yds useful to Am. Canal

Engineering work excellent

maps still used.

American works.

Taken over by 2nd Lt. Brooks. His receipt for property a historical doc -

1st commission headed by Rear Adm. John G. Walker - Gen. Edwards in lead

Casket. John Wallace Chf Eng 04-05
John + Stevens 05-07

Much criticism in states. T.R. visited in '06. 1st President to leave U.S.

New Commission in 07 of Goethals at head.

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Booth's organizer work speeded up and in 1908. 37,000,000 cu yds

Changed to final plan in 1908 with locks moved back to Miraflores farther from ocean.

Opening delayed by slides from Jan. 1915

Description of Canal

Eastern largest earth dam in world until Fort Peck.

Eastern lake 163.38 sq miles Shore line 1100 miles long.

12 locks 1000 ft long 110 ft wide

Queen Mary + Normandie only ships too large.

4,500,000 cu yds of concrete in locks

Total Excavation ^{Canal from} 208,027,540 cu yd

Ballard cut 102,767,120 " "

Grand Total 419,467,555

Length deep water to deep water 50 miles

Pacific entrance 27 miles east of Atlantic

Original construction cost 380,000,000

Capital investment July 1 1939 543,150,444.95

Tolls " " " 453,471,602.13

Total tonnage	499,077,200
Total transits	122,712
Largest ship Bremen	52,896 G.T
Tolls	\$ 15,143.40
u Warship Hood	44800
Tolls	\$ 22,400

Construction and operation
Leases

Board change

Emergency dams

Control towers

Wadden dam. 1904

Engineering crews. New locks 135 x 1200

Equipment

Shops

Dry docks

Dynamite accidents

Organization Gold & Silver roll.

Sanitation

P.R.R.

Commissaries

Quarters

Stories of water boat, canal on island
Pacific higher than Atlantic. Volcanoes
Investigating committees etc

Present locks set to carry traffic to 1961
New " 100,000 more

Hunting - deer, tapir, wild turkey
jaguars, peccary pigs,

Snakes. —

Swimming - pirhana, etc.

Fishing - tappen, sail fish, barracuda
marlin

Negro stories

Ashe

Ford hit on head

Marriage

Panama City

Old Panama

Interior

etc