

Fraenkel 1922,
Skolem 1922
Stated: *Replacement*

Zermelo 1908 (Zermelo set theory)
Sets
Extensionality (sets), Pairing (unordered), Union, Power set, Infinity, Separation, Choice

Pairing (unordered) ←
Separation, Choice ←
Pairing (ordered) →
Function existence axioms →
Limitation of size
(implies Replacement)

↓
Von Neumann 1925, 1928
Functions, Arguments
Extensionality (functions), Pairing (ordered), Function existence axioms, Union, Power set, Infinity, Limitation of size
Stated but not adopted: *Regularity*

Limitation of size ←
Replacement →
Von Neumann choice

↓
Von Neumann 1929
Functions, Arguments
Extensionality (functions), Pairing (ordered), Function existence axioms, Union, Power set, Infinity, Replacement, Von Neumann choice
Proved relatively consistent: *Regularity*

Pairing (ordered) ←
Function existence axioms →
Pairing (unordered) →
Class existence axioms →
Separation, Regularity

↓
Bernays 1931 [letter to Gödel], 1937, 1941 [axioms published]
Classes, Sets (two sorts)
Extensionality (classes), Pairing (unordered), Class existence axioms, Union, Power set, Infinity, Separation, Replacement, Von Neumann choice, Regularity

Separation ←
Von Neumann choice ←
Global choice →

↓
Gödel 1940 (NBG)
Classes, Sets (one sort)
Extensionality (classes), Pairing (unordered), Class existence axioms, Union, Power set, Infinity, Replacement, Global choice, Regularity

Legend:

Approach
Primitives
Axioms