

Online Supplement | OJ-SPT Volume 2, Issue 4, Article 160

People as Wealth or Population as Burden? A Scoping Review and Documentary Analysis of Africa's Demographic Future and Population Governance

Sixbert SANGWA | DOI: <https://doi.org/10.65655/ocp.ojspt.160>

Supplement contents: A. Search protocol; B. Screening audit; C. Evidence-fit audit; D. Documentary corpus; E. PRISMA-ScR reporting map.

A. Search Protocol and Exact Semantic Queries

The formal search was run on September 2026 in the SciSpace multidisciplinary scholarly index. The interface was queried in English, no publication-year filter was imposed, and each semantic query returned 10 relevance-ranked records. The bounded return is a platform characteristic and is why the manuscript is reported as a scoping rather than exhaustive systematic review.

Table S1a

Exact Formal Search Queries

Query	Exact text
Q1	What does peer-reviewed research conclude about the effects of fertility decline, population growth, age structure, human capital, and institutional quality on economic development and the demographic dividend in sub-Saharan Africa?
Q2	What does peer-reviewed research show about contraceptive autonomy, coercion, target-driven family planning, and the tension between reproductive rights and fertility-reduction objectives in sub-Saharan Africa?
Q3	What peer-reviewed historical scholarship documents links among Malthusianism, eugenics, birth control, Rockefeller or Ford philanthropy, population-control institutions, Julian Huxley, and twentieth-century international population policy?

Note. An exploratory mapping stage preceded these queries but contributed no records to the PRISMA-ScR counts.

B. Screening Audit and PRISMA-ScR Counts

Thirty formal records were returned. Six alternative versions were removed before screening, leaving 24 unique records. Eleven were excluded at title/abstract screening, 13 proceeded to eligibility assessment, two were excluded there, and 11 entered from the formal search. Twenty-six additional scholarly records were identified and retained through documented other methods, yielding 37 included scholarly records.

Table S1
Record-Level Formal Search and Screening Log

No.	Query	Returned record	Disposition	Reason
1	Q1	Where Are the Demographic Dividends in Sub-Saharan Africa?	Included	Formal-search evidence record
2	Q1	Generating and capitalizing on the demographic dividend potential in sub-Saharan Africa: a conceptual framework from a systematic literature review	Included	Formal-search evidence record
3	Q1	The Demographic Dividend As A Pathway To Development: The Role of Fertility and Education in Sub-Saharan Africa. A Narrative Review	Excluded - title/abstract	Narrative review lacked the search transparency required for this evidence map and was redundant with higher-rigor reviews
4	Q1	Mortality, fertility, and economic development: An analysis of 201 countries from 1960 to 2015	Included	Formal-search evidence record
5	Q1	Population, Development, and Policy	Excluded - title/abstract	Indexed metadata could not be reconciled confidently with a stable analytical record relevant to the question
6	Q1	Does Fertility Decline Stimulate Development?	Excluded - title/abstract	Indexed metadata / authorship record was insufficiently stable for inclusion
7	Q1	A Demographic Dividend for Sub-Saharan Africa: Source, Magnitude, and Realization	Excluded - title/abstract	Working-paper record superseded by later peer-reviewed scholarship retained through citation chasing
8	Q1	Africa's Demographic Dividend or Demographic Disaster? A Continent at a Crossroads	Excluded - title/abstract	Repository / Zenodo record; not treated as peer-reviewed analytical evidence
9	Q1	Africa's Demographic Dividend or Demographic Disaster? A Continent at a Crossroads - alternate Zenodo version	Duplicate removed	Alternative version of the same work
10	Q1	Education rather than age structure brings demographic dividend	Included	Formal-search evidence record
11	Q2	Reproductive Coercion and Contraceptive Use in Ethiopia	Included	Formal-search evidence record
12	Q2	Married women's decision-making autonomy on modern contraceptive use - repository version 1	Duplicate removed	Repository version of retained journal article
13	Q2	Married women's decision-making autonomy on modern contraceptive use - repository version 2	Duplicate removed	Repository version of retained journal article
14	Q2	Married women's decision-making autonomy on modern contraceptive use and its associated factors in high fertile sub-Saharan Africa countries	Included	Retained journal version
15	Q2	BMC reproductive health: family planning global conference series - repository version 1	Duplicate removed	Repository version of journal editorial
16	Q2	BMC reproductive health: family planning global conference series - repository version 2	Duplicate removed	Repository version of journal editorial

No.	Query	Returned record	Disposition	Reason
17	Q2	Reproductive Oppression and Reproductive Autonomy of Girls and Young Women in Kenya	Excluded - title/abstract	Thesis / repository item outside the peer-reviewed evidence criterion
18	Q2	When they force a woman, it's to save her life: Gendered vulnerability and contraceptive coercion	Included	Peer-reviewed qualitative evidence directly relevant to coercion and program rationales
19	Q2	BMC reproductive health: family planning global conference series	Excluded - title/abstract	Editorial without independent analysis
20	Q2	Married Women Decision-Making Autonomy on Contraceptive Use in East Africa	Excluded - title/abstract	Repository record; peer-reviewed publication status not established in the returned record
21	Q3	The Huxleys: An Intimate History of Evolution	Included	Scholarly historical monograph directly relevant to Huxley/eugenics genealogy
22	Q3	Population and Family Planning	Excluded - eligibility	Bibliographic overview rather than independent analytical evidence
23	Q3	Stretching the Surface of the Earth: The Foundations, Neo-Malthusianism and the Modernising Agenda	Included	Formal-search historical evidence record
24	Q3	Nation, Empire, Globe: The Spaces of Population Debate in the Interwar Years	Included	Formal-search historical evidence record
25	Q3	Population Control is History: New Perspectives on the International Campaign to Limit Population Growth	Included	Formal-search historical evidence record
26	Q3	Demographic concerns and interventions	Excluded - title/abstract	Returned metadata did not support reliable attribution as an independent analytical record
27	Q3	Politics and Population Control: A Documentary History	Excluded - title/abstract	Document anthology; used neither as an included analytical study nor as a primary policy document
28	Q3	Eugenics as the Basis of Population Policy	Excluded - eligibility	Encyclopedia-style synthesis rather than independent research evidence
29	Q3	Eugenics as the Basis of Population Policy - alternate edition/version	Duplicate removed	Alternative version of the same encyclopedia entry
30	Q3	Malthusian Thought	Excluded - title/abstract	Encyclopedia / reference overview rather than independent analytical evidence

Note. Disposition counts: duplicate/alternative version removed = 6; title/abstract exclusions = 11; eligibility-stage exclusions = 2; formal-search inclusions = 11. Eligibility assessment relied on the most complete accessible record available; the review does not claim that unrestricted full text was available for every report.

Table S2*Included Records Identified Through Other Methods (n = 26)*

Citation	Identification route	Reason for targeted inclusion
Ahmed et al. (2012)	Targeted thematic retrieval	Maternal mortality and contraceptive-use counterfactual evidence
Bloom et al. (2017)	Backward citation / targeted retrieval	African demographic-dividend conditions
Carey (2012)	Backward citation	Birth control-eugenics intellectual history
Chen & Huang (2020)	Targeted comparative retrieval	China fertility-policy timing and fertility decline
Conde-Agudelo et al. (2012)	Backward citation	Birth-spacing mechanisms and health outcomes
Connelly (2006)	Backward citation	India population-control history before the Emergency
Ezeh et al. (2012)	Targeted thematic retrieval	Global high- and low-fertility policy trade-offs
Foley (2022)	Targeted thematic retrieval	Economic-demographic justifications for family planning in Africa
Jones (2022)	Foundational theoretical retrieval	Low fertility, population decline, and idea production
Klasen & Nestmann (2006)	Foundational theoretical retrieval	Population, density, and technological change
Kremer (1993)	Foundational theoretical retrieval	Population scale and long-run technological change
	Focused handsearch:	
Lin et al. (2026)	Population Research and Policy Review	Contraceptive context and child health in 27 SSA countries
	Focused handsearch:	
Marois et al. (2025)	Population Research and Policy Review	India-China demographic comparison with education and labor-force participation
Montt-Maray et al. (2023)	Targeted thematic retrieval	Ethical challenges and metrics in SSA family-planning interventions
Ni et al. (2023)	Targeted thematic retrieval	Birth-spacing meta-analysis
Pelras & Renk (2023)	Targeted comparative retrieval	Long-run public-health consequences of coercive sterilization
Romer (1990)	Foundational theoretical retrieval	Human capital and endogenous technological change
Schlosser (2009)	Backward citation	Neo-Malthusianism, geopolitics, and security discourse
Senderowicz (2019)	Backward citation	Qualitative contraceptive coercion evidence
Senderowicz (2020)	Backward citation	Contraceptive-autonomy measurement framework
Senderowicz & Valley (2025)	Targeted thematic retrieval	Critical review of fertility-centered sustainable-development claims

Citation	Identification route	Reason for targeted inclusion
Turok & McGranahan (2013)	Foundational / Africa-focused retrieval	Conditional agglomeration and urbanization-growth relationship
Weindling (2012)	Backward citation	Julian Huxley and continuity of eugenic thought
Williams (2014)	Backward citation	India Emergency family-planning history
Woldegiorgis (2023)	Backward citation	Fixed-effects evidence on demographic-dividend drivers in Africa
Zhang (2017)	Targeted comparative retrieval	China one-child policy and identification limits

Note. Other-method records were screened against the same substantive and provenance criteria as formal-search records. Malthus and Boserup were prespecified conceptual anchors rather than evidence-map records.

C. Evidence-fit Audit

A single numerical risk-of-bias score was not imposed across incompatible designs. Instead, each record was audited for the inference it can support and the most important limitation that constrains that inference. This table is intended to prevent stronger causal or historical claims than the design permits.

Table S3
Design-Appropriate Evidence-Fit Audit of Included Scholarly Records

Citation	Design / evidence base	Evidentiary utility	Principal inferential limitation
Garenne (2023)	Review plus macro/household comparisons	Moderate for stated inference	Ecological correlations do not identify causal effects
Cardona et al. (2020)	Systematic literature review; 78 peer-reviewed articles, 10 reports, 1 book	High for stated inference	Framework synthesis; underlying studies are heterogeneous
Li et al. (2018)	Cohort-component counterfactual projections, 1960-2015	Moderate for stated inference	Scenario model is not experimental causal identification
Lutz et al. (2019)	Cross-national panel analysis	High for stated inference	Macro panel estimates remain sensitive to specification and measurement
John & Edmeades (2018)	Population-based survey; multivariable logistic models	Moderate for stated inference	Cross-sectional design limits causal direction
Belachew et al. (2023)	Multilevel DHS analysis	Moderate for stated inference	Operationalizes autonomy through survey indicators; cross-sectional
Senderowicz (2025)	17 focus-group discussions with women aged 15-49	Moderate for stated inference	Anonymized setting and qualitative design limit prevalence inference

Citation	Design / evidence base	Evidentiary utility	Principal inferential limitation
Bashford (2022)	Scholarly historical monograph	Contextual / theoretical	Historical interpretation; not evidence of institutional command
Cullather (2014)	Historical analysis	Contextual / theoretical	Interpretive historical evidence cannot establish uniform motives
Bashford (2007)	Comparative intellectual history	Contextual / theoretical	Historical genealogy, not causal policy evaluation
Connelly (2003)	Comparative historiographic review	Contextual / theoretical	Review article; emphasizes interpretive synthesis
Ahmed et al. (2012)	Counterfactual demographic/health analysis	High for stated inference	Relies on counterfactual assumptions rather than randomized exposure
Bloom et al. (2017)	Demographic-economic analysis / synthesis	Moderate for stated inference	Prospective and model-based elements limit deterministic prediction
Carey (2012)	Transnational historical analysis	Contextual / theoretical	Historical overlap does not prove continuity into all later programs
Chen & Huang (2020)	Policy-timing / quantitative historical analysis	High for stated inference	Policy exposure and concurrent development complicate attribution
Conde-Agudelo et al. (2012)	Systematic review of 58 observational studies	Moderate for stated inference	Observational mechanisms and confounding limit causal certainty
Connelly (2006)	Archival historical analysis	Moderate for stated inference	Historical inference; external and domestic roles are intertwined
Ezeh et al. (2012)	Demographic policy review	Moderate for stated inference	Broad policy synthesis rather than a single causal design
Foley (2022)	Critical policy / historical analysis	Contextual / theoretical	Normative-interpretive analysis; not an effect estimate
Jones (2022)	Endogenous-growth model	Contextual / theoretical	Model implications depend on assumptions about innovation production
Klasen & Nestmann (2006)	Theoretical and empirical analysis	Moderate for stated inference	Aggregated historical relationships do not transfer mechanically to current SSA
Kremer (1993)	Growth model plus historical empirical tests	Contextual / theoretical	Very long-run evidence is not a short-run policy estimate
Lin et al. (2026)	Multilevel DHS analysis	High for stated inference	Observational regional context; cannot establish program causality
Marois et al. (2025)	Multidimensional demographic projections	High for stated inference	Projection results depend on scenario assumptions
Montt-Maray et al. (2023)	Scoping review; 1,652 identified, 40 included	Moderate for stated inference	Scoping synthesis does not estimate coercion prevalence
Ni et al. (2023)	Systematic review and dose-response meta-analysis	High for stated inference	Observational evidence remains vulnerable to residual confounding
Pelras & Renk (2023)	Difference-in-differences with fixed effects	High for stated inference	Historical quasi-experiment; mechanism evidence is indirect
Romer (1990)	Endogenous-growth model	Contextual / theoretical	Theory does not identify a country-specific fertility optimum
Schlosser (2009)	Historical discourse analysis	Contextual / theoretical	Interpretive discourse history does not establish hidden coordination
Senderowicz (2019)	Qualitative in-depth interviews	Moderate for stated inference	Small purposive sample; not prevalence-estimating
Senderowicz (2020)	Conceptual / measurement article	Contextual / theoretical	Conceptual indicator requires context-specific validation

Citation	Design / evidence base	Evidentiary utility	Principal inferential limitation
Senderowicz & Valley (2025)	Critical evidence review	Contextual / theoretical	Critical review perspective; causal claims vary across cited domains
Turok & McGranahan (2013)	Review of urbanization-growth evidence	Moderate for stated inference	Urbanization is not equivalent to national population growth
Weindling (2012)	Intellectual / institutional history	Contextual / theoretical	Individual continuity is not proof of institutional continuity
Williams (2014)	Archival historical analysis	Contextual / theoretical	Case-specific historical evidence
Woldegiorgis (2023)	Fixed-effects panel analysis	High for stated inference	Country heterogeneity and endogeneity remain possible
Zhang (2017)	Economic literature review and exploratory estimates	Moderate for stated inference	Concurrent market reforms and prior policy confound attribution

Note. High/moderate/contextual labels concern fitness for the specific inference made in the manuscript, not ideological agreement or a universal hierarchy across methods.

D. Primary and Authoritative Documentary Corpus

Documentary evidence was analyzed separately from scholarly studies. Category A denotes a proposition stated directly in an official or institutional record; Category B would require a strong inference supported by convergent scholarship; Category C denotes association or intellectual overlap; Category D denotes an unverified proposition. The manuscript does not treat Category D claims as findings.

Table S4
Documentary Corpus and Claim-Evidence Classification (n = 14)

Document	Date	Repository / institution	Use in manuscript	Class
NSSM 200	24 Apr 1974	U.S. National Security Council / Office of the Historian	Directed study of world population growth in relation to U.S. security, development, trade, resources, foreign policy, and stability	A
NSC-U/DM-130 executive summary	14 Dec 1974	U.S. Department of State, FRUS	Summarized NSSM-200 response; identified 13 priority countries including Nigeria and Ethiopia	A
NSDM 314	26 Nov 1975	U.S. National Security Council / Office of the Historian	Established coordinated population policy and linked U.S. leadership to security and overseas interests	A

Document	Date	Repository / institution	Use in manuscript	Class
First Annual Report on U.S. International Population Policy	29 Jul 1976 / report dated May 1976	Interagency Task Force on Population Policy, FRUS	Documented discreet diplomatic influence, terminology calibration, donor coordination, intermediary channels, and fertility-reduction objectives	A
Ford Foundation Annual Report 1964	1964	Ford Foundation	Documented funding and language around population control, family planning, fertility research, statistics, and development	A
Population Council timeline	n.d.	Rockefeller Brothers Fund	Documents John D. Rockefeller III role in founding Population Council and long philanthropic involvement	A
World Population Prospects 2024	2024	UN DESA Population Division	Current fertility, age-structure, population-peak and projection context	A
World Development Indicators	2026 access	World Bank	Current population, GDP, GDP-per-capita comparison	A
A Ladder of Opportunity	23 Jan 2025	World Bank	SSA working-age population and jobs framing	A
Family planning/contraception methods	3 Jul 2025	World Health Organization	Current institutional definition and claimed health benefits of family planning	A
State of World Population 2025	2025	UNFPA	Current framing of fertility crisis around unrealized reproductive intentions	A
Korea's Unborn Future	2025	OECD	Low-fertility, ageing, labor-market and policy analysis	A
Media briefing by Commissioner ESTI	12 Feb 2026	African Union	Current African human-capital / demographic-dividend framing	A
Productive jobs key to harnessing Africa's demographic dividend	2 Jun 2026	International Labour Organization	Current employment-centered dividend framing	A

Note. The strongest historical claims about confidential national-security planning, diplomatic influence, terminology calibration, and donor/intermediary coordination are based on U.S. primary records, not on inference from secondary commentary.

E. PRISMA-ScR Reporting Map

Table S5
PRISMA-ScR Reporting Map

Reporting element	How addressed	Location
Title	Identifies the work explicitly as a scoping review	Title
Structured summary	Purpose, sources, screening counts, synthesis, and implications are reported in one paragraph	Abstract
Rationale	Explains competing population-burden, scale, age-structure, human-capital, autonomy, and historical-governance claims	Introduction and Background
Objectives / questions	Five explicit review questions are stated	Introduction and Background

Reporting element	How addressed	Location
Protocol / reporting standard	PRISMA-ScR is identified; no prospective registration is claimed	Methods
Eligibility criteria	Mechanisms, source types, and exclusion rules are specified	Methods; Section B
Information source	SciSpace formal index plus documented citation chaining/foundational retrieval/PRPR handsearch	Methods; Section A
Search strategy	Exact semantic queries, date, language of querying, no year filter, and bounded return are reproduced	Section A; Table S1a
Source selection	Duplicate removal and stage-specific exclusions are documented	Methods; Figure 1; Table S1
Data charting	Citation, setting, design, mechanism, finding, and limitation are charted	Methods; Table 1; Table S3
Critical appraisal	Design-appropriate evidence-fit audit used instead of a common numerical scale	Methods; Table S3
Synthesis method	Mechanism-based narrative synthesis; no vote count or meta-analysis	Methods; Table 2
Flow results	30 identified; 6 duplicates; 24 screened; 11 title/abstract exclusions; 13 eligibility assessed; 2 eligibility exclusions; 11 formal plus 26 other = 37 included	Figure 1; Section B
Characteristics of sources	All 37 scholarly records characterized	Table 1
Results by theme	Six mechanisms synthesized with counterevidence and inferential boundaries	Results; Table 2
Summary of evidence	Three integrative contributions and demographic-stewardship framework	Discussion and Conclusion; Figure 2
Limitations	Bounded semantic retrieval, heterogeneity, descriptive comparisons, motive inference, normative boundary	Discussion and Conclusion
Conclusions	Policy and research implications stated without claiming a fertility optimum	Discussion and Conclusion
Funding of review	To be completed by the author in SNAPP; intentionally excluded from blind manuscript	SNAPP declaration
Conflicts / other declarations	To be completed by the author in SNAPP; intentionally excluded from blind manuscript	SNAPP declaration

Note. This reporting map paraphrases PRISMA-ScR elements rather than reproducing the checklist verbatim. Authors should submit any publisher-required checklist file separately if requested by the journal.